Updated May 1, 2018

Md Azizur Rahman

Professor of Engineering and University Research Professor
Faculty of Engineering & Applied Science
Memorial University of Newfoundland
St. John's, NL, A1B 3X5
Phones:(709)864-8936(o), (709)753-7464(h) Fax: (709)864-4042(o)
E-mail: arahman@mun.ca ; http://www.engr.mun.ca/~rahman/

ACADEMIC QUALIFICATIONS

University	Degree	Specialization	Year
Bangladesh University of Engineering & Technology (BUET), Dhaka, Bangladesh	B.Sc.Eng.	Electrical	1962
University of Toronto, Canada	M. A. Sc.	Electrical	1965
Carleton University, Ottawa, Canada	PhD	Electrical	1968

ACADEMIC, RESEARCH AND INDUSTRIAL EXPERIENCE

Positions Held	Dates	Department/ School	Institution/Company
University Research Professor	1993 -		Memorial University of Newfoundland -Memorial's Highest Academic Honour
Professor	1981 -	Faculty of Engineering	Memorial University of Newfoundland
Professor Visiting Professor Icon Professor	2006-2007 2010-2011 2012-2013	Electrical Engineering UMPEDAC	University of Malaya, Malaysia
Invited Professor	2005	Electrical Engineering	Tokyo University of Science
Visiting Professor	1999-2000	School of EEE	Nanyang Technological University, Singapore
Visiting Professor	1999 (April-May)	Electrical Engineering	Science University of Tokyo
Leung Wai Sun Fellow	1998 (April-May)	Electrical Engineering	University of Hong Kong
Centennial Visiting Professor	1992 (Jul-Aug)	Electrical Engineering	Tokyo Institute of Technology
Visiting Professor	1991-1992 (Jul-Jun)	School of EEE	Nanyang Technological University, Sg
Director, BIT-MUN-CIDA Project	1989-1998	Engineering	Memorial University of Newfoundland
Resident Consultant	1988-1979	Operations (Work- Prof.)	Newfoundland & Labrador Hydro
Visiting Professor	1984-1985	Electrical	University of Toronto

Resident Consultant	1980-1983 1986-1987	Operations (Work- Prof.)	Newfoundland & Labrador Hydro
Associate Professor	1976-80	Faculty of Engineering	Memorial University of Newfoundland
Resident Consultant	1978-1979	Corporate R & D	General Electric Company Schenectady, NY, USA
Resident Consultant	1977	Operations (Work-Prof.)	Newfoundland & Labrador Hydro
Electrical Engineer	1975-76	HVDC Engineering	Teshmont Consultant Ltd., Winnipeg
Part-time Teacher	1975-76	Electrical Engineering	University of Manitoba
Research Associate	1975 (Aug-Sept)	Electrical Engineering	University of Manitoba
Visiting Research Associate	1975 (Jul-Aug)	Electrical Engineering	University of Toronto
Nuffield Fellow	1974-75 May-April	Electrical Engineering	Imperial College of Science, Technology & Medicine, London, UK
Senior Research Fellow	1975 (Jun)	Electrical Engineering	Technishe Hogeschool, Eindhoven, Netherlands
Senior Research Fellow	1973-1974 (Oct.-Mar.)	Electrical Engineering	Technishe Hogeschool, Eindhoven, Netherlands
Associate Professor	1972-75	Electrical Engineering	Bangladesh University of Engineering & Technology-BUET
Assistant Professor	1969-72	Electrical Engineering	Bangladesh University of Engineering & Technology
Research Scientist	1968 (April-Dec.)	Engineering Laboratory	Canadian General Electric, Peterborough
Commonwealth Scholar	1966-68 (May-Mar.)	Electrical Engineering	Carleton University
Commonwealth Scholar	1964-66 (Sep.-April)	Electrical Engineering	University of Toronto
Lecturer	1962-69	Electrical Engineering	Bangladesh University of Engineering & Technology
Resident Consul-tant (Part-time)	1963-64	Dhaka Electric Supply	Water & Power Development Authority, Bangladesh
Trainee Engineer	1961	Spindle Dept.	EPIDC (Cotton Mills), Bangladesh

SCHOLARSHIPS

- Distinction in Electric Machines and High Voltage, B.Sc. Eng., 1962
- Commonwealth Scholarship, University of Toronto and Carleton University, 1964-1968
- Senior Research Fellow, Technical University of Eindhoven, Netherlands, 1973-1974and June 1975.
- Nuffield Fellow, Imperial College of Science and Technology, London, UK, June 1974-May 1975.
- Visiting Research Fellow, University of Toronto, 1975 and 1984-85
- 100th Year of Establishment of Tokyo Institute of Technology Visiting(Foreign) Professorship,1992
- Leung Wai Sun Fellow-in-Residence, University of Hong Kong, April-May 1998
- Visiting Professor, Science University of Tokyo, 1999
- Visiting Professor, Nanyang Technological University, Singapore, 1991 and 2000
- Invited Professor, Tokyo University of Science, April-May 2005
- Invited Professor, University of Malaya, October-December 2008, 2009, 2010-2011
- Invited Academic ICON Visiting Professor, University of Malaya (UMPEDAC) July 2012-August 2013.

AREAS OF SPECIALIZATION

Electrical Machines, Power Systems, Power Electronics, Electromagnetic Fields , Permanent Magnet Materials, Intelligent Control Applications, Bearingless Drives, Wavelet Modulated Inverters and Wireless Communications.

FUNDING

I currently hold the 5-year NSERC Discovery grant.
The amount of the grant is $ 42,000/year.
The total amount is $, 210,000 for the period of 5 years.
The present 5-year NSERC Discovery grant started on April 1, 2014 and finishes on March 31, 2019.

AWARDS

2015, Fellow of the Royal Society of Canada (FRSC) Award, November 2015

With the following citation:

M. A. Azizur Rahman is an internationally-recognized scholar for his contributions to the development and promotion of the Interior Permanent Magnet (IPM) technology. Highly efficient IPM motors and generators have proven to be critical for the development of hybrid electric vehicles. Azizur was a Visiting Professor at many world class Universities. He has received numerous awards such as the Gold Medal award for seminal contributions to engineering and the world

2012, Prince Albert-II Medal

With the following citation:

For contributions on Ecological Vehicles and Renewable Energies, EVER, Monaco March 2012

***2010, Institution of Engineers Bangladesh (IEB) Gold Medal, 2010*:**
With the following citation:
Outstanding Contributions to the Profession and the Nation

2009, Canadian Academy of Engineering Fellow Award, 2009:
With the following citation*:*
For outstanding contributions to the design, development, analysis, controls and application of interior permanent magnet (IPM) synchronous motors and associated drive systems. Dr. Rahman has been repeatedly honored by his peers for his technical contributions and leadership in promoting IPM technology worldwide, and he is the only person to receive highest awards from four IEEE societies. His IPM design innovations have had significant economic and environmental benefits worldwide, including reducing costs to consumers and increasing energy efficiency of air conditioning systems, and he is the father of modern energy-efficient hybrid electric vehicles

2008, A. D. Dunton Outstanding Alumni Award of Distinction, Carleton University, 2008,
with the following citation*:*
Outstanding Contributions to the Field of Power Engineering

2007, IEEE Richard Harold Kaufmann Award, 2007
With the following citation*:*
For Contributions to Analysis, Design and Development of Interior Permanent Magnet Motor Drives

2007, IEEE Dr.-Ing. Eugene Mittelmann Achievement, 2007
With the following citation*:*
For Outstanding contributions to IPM Motor Drive and associated Delta, PWM and Wavelet Modulated Inverter Systems

2005, Khwarizmi International Prize (UNESCO sponsored Award)
With the following citation*:*
For his achievements in Science for the Khwarizmi International Prize

2004, IEEE IAS Distinguished Lecturer Award, January 2004-2005

2004, IEEE William E. Newell Power Electronics Award, 2004
With the following citation*:*
For Outstanding Contributions in Power Electronics

2004 Canadian Islamic Congress Honours Award for Muslim Engineers, October 2004
With the following citation:
For Contributions to Canada's well-being

2003, IEEE Power & Energy Society's (PES) Cyril Veinott Electromechanical Energy Conversion Award, 2003
With the following citation*:*

For Contributions to the Design and Analysis of Hysteresis and Permanent Magnet Motors

2000, IEEE Third Millennium Medal, 2000
With the following citation*:*
For Outstanding Achievement and Contributions

1998, Fellow, Engineering Institute of Canada, 1998
With the following citation:
In Recognition of his Excellence in Engineering and for services retendered to the Profession and to Society

1996, IEEE Canada Outstanding Engineering Education (Ham) Medal, 1996
With the following citation*:*
For life-long contributions in Electric Machines and Power Electronics Education

1994, Association of Professional Engineers & Geoscientists of Newfoundland Merit Award, 1994
With the following citation*:*
In Recognition of having made Outstanding Contributions to the Engineering Profession and the Community

1993, University Research Professorship, Memorial University of Newfoundland, 1993
With the following citation*:*
In Recognition of an illustrious career in Scholarly Research

1993, Outstanding Achievement Award for North American of Bangladesh Origin, 1993
With the following citation:
For Outstanding contributions in Engineering

1992, IEEE Industry Applications Society (IAS) Outstanding Achievement Award, 1992
With the following citation*:*
In recognition of outstanding contributions to the Applications of Electricity to Industry

1988, IEEE Fellow Award,
With the following citation:
For Contributions to the design and analysis of Hysteresis and Permanent Magnet Motors

1980, IEEE Outstanding Counselor's Award, 1980
With the following citation:
For leadership for MUN IEEE students

1978, General Electric Centennial Award for Invention Disclosures, December 1978
With the following citation:
For hysteresis permanent magnet motors

PROFESSIONAL DISTINCTIONS

- Fellow of the Royal Society of Canada (FRSC), 2015-
- Life Fellow, Institute of Electrical and Electronics Engineers (IEEE), 2007-
- Fellow, Institute of Electrical and Electronics Engineers (IEEE), 1988-
- Fellow, Institution of Engineering and Technology (IET), London, UK, 1989-
- Fellow, Institution of Engineers, Bangladesh, F1467, 1983
- Life Fellow, Institution of Engineers, Bangladesh, 1989-
- Fellow, Engineering Institute of Canada, 1998-
- Fellow, Canadian Academy of Engineering, 2009-

COMMITTEE MEMBERSHIPS

- Numerous Memorial University Committees including Chair of Senate Committee of Research and member of Senate Committee on Honorary Degrees, etc.
- Chair, IEEE Canada Awards and Recognition Committee, 2013- 2014 and Vice-Chair, 2011-2012.
- General Chair, IEEE International Electric Machines and Drives Conference, IEMDC-2011, Niagara Falls, May 15-18, 2011.
- Member, IEEE William E. Newell Field Award Selection Committee, 2005-2008
- Chair, IEEE Industry Applications Society (IAS) Awards Nominating Committee, 2005- 2010
- Chair, IEEE Power and Energy Society (PES), Motor Sub-Committee,2005-2008
- Past Chair, IEEE IAS Distinguished Lecturers Program Committee, 2003- 2004
- Area Chairman, Eastern Canada IAS Chapters, Region7 East, 2003-2008
- Chair, IEEE-PES Direct Current, Permanent Magnet and Special Machines Sub-Committee,1976-2003
- Chair, IEEE- IAS Distinguished Lecturers Program Committee, 1991-2002
- Chair, IEEE -IAS Industrial Power Conversion Systems Department Awards & Recognition Committee, 1993-2003
- Member, IEEE - PES EMC Fellows Working Group, 1993-2000
- Member, Institute of Electrical Engineers of Japan, 1991-
- Member, Electromagnetics Academy (M.I.T.),1990-
- Member, Executive Committee of IEEE Int. Electric Machines and Drives Conference IEMDC, 1998-2001
- Member-at-Large, Executive Board IEEE-IAS, 1990- 92
- Chair, Electrical Machines Committee, IEEE-IAS, 1987-89, Vice-Chair1985-87
- Founding Member, Electric Machines Committee, IEEE IAS, 1984-
- Member, Single Phase & Fractional Horsepower Sub-Committee, IEEE-PES, 1976-84
- Member, IEEE, IAS Industrial Drives Committee, 1983-
- Member, Rotating Machinery Committee, IEEE-PES,1987-
- Member, IEEE PES Induction Machines Subcommittee, 1977-2005
- Student Counselor, IEEE Newfoundland &Labrador Section, 1978-1981
- Chairman, IEEE Newfoundland and Labrador Section, 1986-87
- Chairman, Membership Development, Recognition and Award, IEEE Newfoundland and Labrador Section, 1988

- Member, American Association of Bangladesh Engineers, 1983-
- Member, Task Force on Technical Education in Bangladesh (East Pakistan), 1969-70
- Member, Power Section, Planning Commission, Government of Bangladesh, 1972-73
- Member of BUET Academic Council , 1973-1975
- Member, BUET Academic Development Sub-Committee, 1969-74

OTHER AFFILIATIONS AND CITATIONS

- Who's Who in Electromagnetics, MIT, 1990-
- Member of Electromagnetics Academy.
- American Men and Women of Science, 1989
  FOR OUTSTANDING CONTRIBUTIONS IN THE FIELD OF SCIENCE
- Outstanding Achievement Award for North American of Bangladesh Origin, 1993
  OUTSTANDING CONTRIBUTION IN ENGINEERING
- American Biographical Institute Research Board of Advisors, 1988
- Founding and Past President of the Muslim Association of Newfoundland and Labrador, 1980-82, 1988-89
- Muslim Engineers Award, Canadian Islamic Congress, 2004

PROFESSIONAL REGISTRATIONS

- Registered Professional Engineer, Province of Newfoundland and Labrador, 1976
- Registered Professional Engineer, Province of Ontario, 1968-2008.
- Registered Professional Engineer, Province of Manitoba, 1975-76
- Chartered Engineer, UK, 1990-.

EDITORIAL BOARD MEMBERSHIP AND REVIEWERSHIP

- Editor, IEEE Transactions on Energy Conversion, 2007-2011
- Guest Editor, Special Section on Modern PM Drives, *IEEE Transactions on Industrial Electronics*, 1994-95
- Co-Editor (North America), *Electro-technology in Industry: International Developments in the Use of Electrical Energy*, Century Publisher, 1991
- Associate Editor, *IEEE Transactions on Power Electronics*, 1997-2002, 2004-2007
- Member, Editorial Board, *IEEE Transactions on Magnetics*, 1996-1997
- Member, Editorial Board, *Electric Power Components and Systems Journal*, Hemisphere Publishing, 1990-2008
- Member, Editorial Board, *Journal of Electrical Systems*, 2006-
- Member, Editorial Board, International Journal of Industrial Electronics and Drives, 2007-
- Chair, Committee on Electric Machines Transaction Paper Reviews IEEE Industry Applications Society, 1989-91
- Reviews: *IEEE Transactions on Energy Conversion, IEEE Transactions on Power Delivery, IEEE Transactions on Power Systems, IEEE Transactions on Magnetics, IEEE Transactions on Industry Applications, IEEE Transactions on Electromagnetic Compatibility, IEEE Transactions on Power Electronics, IEEE Transactions on Industrial Electronics, IEEE Transactions on Signal Processing, IEEE Transactions on Fuzzy Logics, IEEE Transactions on Neural Networks, International Journal of*

Energy Systems, Electric Machines and Power Systems, and *Journal of King Saud University (Engineering Sciences)*

GRADUATE TEACHING AND SUPERVISION SUMMARY

- Total Graduate Ph.D. Theses Supervised 52 (43 PhD at Memorial University)
- Total Current Graduate Students Supervision 2 M. Eng and 4 PhD at Memorial University.
- Have supervised the largest number of graduate theses in Electrical Engineering at Memorial University
- Five PhD students under sole supervision graduated at the 1996 Fall Convocation, a record number of doctoral graduates from a sole supervisor at Memorial University in one year.
- Total number of Master's Thesis supervised 70.

OTHER CONTRIBUTIONS TO ACADEMIA AND THE ENGINEERING PROFESSION

- Supervision of some 62 Postdoctoral Fellows and Project Engineers
- NSERC Scientific Liaison Officer; NSERC Reviewer
- External Evaluator of Departments and Programs
- External Expert for promotion to full professors (National and International)
- External Reviewers of USA, South Africa, Hong Kong Research Grant Proposals
- External Examiner of Graduate Theses (national and International)
- General Chair, Technical program Chair, Session Chair, Steering Committee Member, Keynote Speaker at many International Conferences
- Numerous University Committee Memberships

PUBLICATIONS SUMMARY

Total Number of Publications: **779**
Number of Prize Paper Awards: 8

PUBLICATIONS

Books and Book Chapters

1. S.A. Saleh and M.A. Rahman, "An Introduction to Wavelet Modulated Inverters", Book, Wiley Interscience and IEEE Press, ISBN 978-0-470-61048-0, 148 pages, 2011 Edition (Published in October 2010, it is the first book on this subject).
2. Adel Aktaibi, Glyn George, M. A. Rahman, "Hybrid Digital Differential Protection of Power Transformers", Lambert Academic Publishing, in press, August, 2016.
3. M. A. Rahman, "Permanent-Magnet Synchronous Machines", McGraw-Hill Yearbook of Science and Technology 2011, ISBN 978-007-176371-4, pp. 242-244.
4. M. A. Rahman, "Permanent Magnet Machines", The Industrial Electronics Handbook,

Second Edition, Publishers: George Kenney, Taylor and Francis, ISBN 978-143-9802-892, Volume 2 , Chapter 5, March 04, 2011, pp.5.1-5.10.

5. M. A. S. K. Khan and M.A. Rahman, " Wavelet Based diagnosis and Protection of Electric Motors", Book Chapter 12,'Fault Detection',(Publisher In-Teh), ISBN 978-953-307-037-7, March 2010, pp.255-282, (downloaded over 6,000 and cited)
6. Adel Aktaibi and M. A. Rahman, "Digital Differential protection of power transformer using Matlab", book chapter, book name (MATLAB - A Fundamental Tool for Scientific Computing and Engineering Applications - Volume 1, pp 219-242, ISBN: 978-953-51-0750-7), In Tech, 2012 (downloaded over 25,000 and cited)
7. M.A. Rahman and D. Poole, "Electrical Technology in Industry", Book (Century Press), 1991 (Book Chapter, pp.1-15).
8. M. A. Rahman and Ping Zhou, "Interior Permanent Magnet Motors, Modern Electric Drives, (Book Chapter) NATO Advanced Studies Series, Section III.4, Kluwer Academic Publications, 2000, pp. 115-140.
9. M. A. Rahman, "Permanent Magnet Motor Drives", Guest Editorial, IEEE Transactions on Industrial Electronics, Vol. 43, No. 2, April, 1996, pp. 245-246.
10. Yi Yang, D.M. Vilathgamuwa and M. A. Rahman, "A Novel ANN Controller for Interior Permanent Magnet Motor Drive", Advances in Neural Networks and Applications, World Scientific Engineering Society Publication, ISBN: 960-8052-26-2, 2001, pp.359-365.
11. M. N. Uddin, M. A. Rahman and Arifur Rahman," A Novel Fuzzy Logic Controller for IPMSM Drive System", Advances in Scientific Computing, Computational Intelligence and Applications, ISBN: 960-8052- 36-X, WSES Press, 2001, pp.348-353.
12. M. A. Rahman and A.M.Z. Huq, "Energy in the Developing World", (Book Chapter) Oxford University Press, 1980, Chapter 27, pp. 328-340.

Refereed Full Journal Papers

13. S. F. Rabbi, M. L. Little, S. A. Saleh and M. A. Rahman, "A Novel Technique Using Multi-Resolution Wavelet Packet Decomposition for Real Time Diagnosis of Hunting in Line Start IPM Motor Drives", IEEE Transactions on Industry Applications, Vol. 53. No.3, pp. 3005 – 3019, May 2017.

14. D. Lin , P. Zhou and M.A. Rahman, " A Practical Anisotropic Vector Model based on Play Hysterons", IEEE Transactions on Magnetics, Vol.53, No. 11, pages 1-6), pp. 7301206, November 2017 .

15. S.F. Rabbi, P. Zhou and M. A Rahman , " Design and Performance Analysis of a Self-start Radial Flux Hysteresis Interior Permanent Magnet Motor", IEEE Transactions on Magnetics, Vol.53, No. 11, pages (1-4), pp. 8209304, November 2017 .

16. S.F. Rabbi, M.P Halloran, T. LeDrew, A. Matchem and M.A. Rahman, " Modeling and V/F Control of a Hysteresis Interior Permanent Magnet Motor", IEEE Transactions on Industry Applications , vol.52, no.2, pp.1891-1901, March /April 2016.

17. S. A. Saleh, A. S. Aljankawey, R. Errouissi, and M. A. Rahman, ``Phase-Based Digital Protection for Arc Flash Faults", IEEE Trans. on Industry Applications, Vol. 52, No. 3, pp. 2110-2121, May/June 2016.

18. K. Kiyota, T Kakishima, A. Chiba, A. and M.A. Rahman, "Cylindrical Rotor Design for Acoustic Noise and Windage Loss Reduction in Switched Reluctance Motor for HEV Applications,", IEEE Transactions on Industry Applications , vol.51, no.4, pp.2919-2927, July/August 2015.

19. H. Sugimoto, S. Tanaka, A. Chiba and M.A. Rahman, "Fold Angle of Winding Arrangement in Single Drive Bearingless Motor with Radial Gap", IAS Transactions of IEE Japan, Vol. 4, No. 4, pp. 395-401, July 2015

20. Razali, A.M.; Rahman, M.A.; George, G.; Rahim, N.A., "Analysis and Design of New Switching Lookup Table for Virtual Flux Direct Power Control of Grid-Connected Three-Phase PWM AC–DC Converter," Industry Applications, IEEE Transactions on , vol.51, no.2, pp.1189-1200, March/April 2015.

21. Aslinda Hassan, Mohamed H. Ahmed, and M. A. Rahman, "Analytical Framework for End-to-End Delay Based on Unidirectional Highway Scenario", Hindawi, Mathematical Problems in Engineering, Volume (2015), Article ID 425186, 13 pages, 2015.

22. Adel Aktaibi and M. A. Rahman, "An Experimental Implementation and testing of d-q axis Wavelet Packet Transform Hybrid Technique for three-phase Power Transformer Protection," IEEE Transactions on Industry Applications Vol. 50, No.4, pp.2919-2927, July/ August 2014.

23. S. F. Rabbi and M. A. Rahman, "Critical criteria for successful synchronization of line start IPM motors", IEEE Journal of Emerging and Selected Topics in Power Electronics, Vol. 2. No.2, pp.348-358, June 2014.

24. S. A. Saleh, R. Ahshan, M. S. Abu-Khaizaran, B. Alsayid and M.A. Rahman, "Implementing and Testing d – q WPT-Based Digital Protection for Micro-grid Systems", IEEE Transactions on Industry Applications, Vol. 50, No. 3, pp.2173-2185 May/June 2014.

25. S. A. Saleh, R. Ahshan and M. A. Rahman, "Performance Evaluation of an Embedded d-q WPT-Based Digital Protection for IPMSM Drives", IEEE Transactions on Industry Applications, Vol.50, No.3, pp.2277-2291, May/June 2014.

26. S. A. Saleh and M. A. Rahman, "Optimal Resolution Level for Input–Output Control of 3\phi VS WM AC–DC Converters", IEEE Transactions on Industry Applications, Vol.50, No. 2, pp.1432-1447, March/April 2014.

27. M..A.S.K. Khan, M.N. Uddin and M.A. Rahman, “A Novel Wavelet Neural Network based Robust Controller for IPM Motor Drive”, IEEE Transactions on Industry Applications, Vol.49, No.5, pp. 2341-235, September /October 2013.

28. C. Butt and M. A. Rahman, “Intelligent Speed Control of Interior Permanent Magnet Motor Drives Using a Single Untrained Artificial Neuron”, IEEE Transactions on Industry Applications, Vol. 49, No.4, pp.1836-1843, July/August 2013.

29. C. Butt and M. A. Rahman, “Untrained Artificial Neuron-Based Speed Control of Interior Permanent-Magnet Motor Drives Over Extended Operating Speed Range”, IEEE Transactions on Industry Applications, Vol.49, No.3, pp. 1146-1153, May/June 2013.

30. H. Sugimoto, Y. Uemura, A. Chiba and M. A. Rahman, “Design of Monopolar Consequent-Pole Bearingless Motor With Wide Magnetic Gap”, IEEE Transactions on Magnetics, Vol. 49, No. 5, pp. 2315- 2318, May 2013.

31. M. A. Rahman, “History of Interior Permanent Magnet Motors”, IEEE Industry Applications Magazine, pp.10-15, January/February 2013.

32. S.A. Saleh; R. Ahshan; M.A. Rahman, "Embedded digital protection for IPMSM drives," IEEE Transactions of Industry Applications , 2013 IEEE , vol.49, no.5, pp., 6-11, September/ October 2013.

33. A. Chiba, M. Takeno, N. Hoshi, M. Takemoto, S. Ogasawara and M.A. Rahman, “Consideration of Number of Series Turns in Switched Reluctance Traction Motor Competitive to HEV IPMSM”, IEEE Transactions on Industry Applications, Vol.48, No.6, pp. 2333 - 2340, November/December 2012.

34. S.A. Saleh, A. Aktaibi, R. Ahshan and M. A. Rahman, “The Development of a d-q axis WPT-Based Digital Protection for Power Transformers”, IEEE Transactions on Power Delivery, Vol. 27, No. 4, pp. 2255-2269, October 2012.

35. P. Zhou, D. Lin, Y. Xiao, N. Lambert and M. A. Rahman, “Temperature-Dependent Demagnetization Model of Permanent Magnets for Finite Element Analysis”, IEEE Transactions on Magnetics, Vol. 48, No.2, pp. 1031-1034, February 2012.

36. M. A. Rahman, A.M. Osheiba, K. Kurihara, M.A. Jabbar, H.W. Ping, K. Wang and H.M. Zubayer, “Advances on Single-Phase Line-Start High Efficiency Interior Permanent Magnet Motors”, IEEE Transactions on Industrial Electronics, Vol. 59, No.3, pp. 1333-1345, March 2012.

37. M. Takeno, A. Chiba, N. Hoshi, S. Ogasawara, M. Takemoto and M.A. Rahman, “Test Results and Torque Improvement of the 50-kW Switched Reluctance Motor Designed for Hybrid Electric Vehicles”, IEEE Transactions on Industry Applications, Vol.48, No.4, pp.1327-1334, July/August 2012.

38. J. Asama, T. Asami, T. Imakawa, A. Chiba, A. Nakajima and M.A. Rahman, ”Effects of Permanent-Magnet Passive Bearing on a Two-axis Actively Regulated Low-Speed Bearingless Motor”, IEEE Transactions on Energy Conversion , Vol.26, No.1, pp. 46-54, March 2011.

39. S.A. Saleh, B. Scaplen and M.A. Rahman, “A New Implementation Method of Wavelet-Packet-Transform Differential Protection for Power Transformers”, IEEE Transactions on Industry Applications, Vol.47, No.2, pp.1003-1012, March/April 2011.

40. S.A. Saleh, M.A.S.K. Khan and M.A. Rahman, “ Steady-state Performance Analysis and Modelling of Directly-driven Interior Permanent Magnet Wind Generators”, IET Renewable Power Generation Journal, Vol. 5, Issue 2, pp. 137-147, March 2011.

41. S.A. Saleh, C. R. Maloney and M.A. Rahman, “Development and Testing of Wavelet Modulation for Three Phase Voltage Source Inverters”, IEEE Transactions on Industrial Electronics, Vol. 58, No.8, pp. 3330-3348, August 2011.

42. M.M. Rashid, N.A. Rahim, M.A. Hussain and M.A. Rahman, “Analytical and Experimental Study of Magnetorheological-Based Damper for Semi-active Suspension System Using Fuzzy Hybrids”, IEEE Transactions on Industry Applications, Vol.47, No.2, pp.1051-1059, March/April 2011.

43. G.R. Arab Markadeh, E. Daryabeigi, C. Lucas and M.A. Rahman, “Speed and Flux Control of Induction Motors using Intelligent Emotional Controller”, IEEE Transactions on Industry Applications, Vol. 47, No.3, pp.1126-1135,May/June 2011.

44. S.A. Saleh and M.A. Rahman, “Development and Experimental Validation of Resolution-Level Controlled Wavelet-Modulated Inverters for Three Phase Induction Motor Drives”, IEEE Transactions on Industry Applications, Vol.47, No.4, pp.1958-1970, July/August 2011.

45. S.A. Saleh and M.A. Rahman, “Experimental Performances of the Single Phase Wavelet Modulated Inverter”, IEEE Transactions on Power Electronics, Vol.58, No.9, pp. 2650-2661, September 2011.

46. A. Chiba, K. Sotome, Y. Iiyama and M.A. Rahman, “A middle Point Current Injection Type Bearingless PM Synchronous Motor for Vibration Suppression”, IEEE Transactions on Industry Applications, Vol. 47, No.4, pp.1700-1706, July/August 2011.

47. M.A.S.K. Khan and M.A. Rahman, “Implementation of a Wavelet-Based Controller for Battery Storage System for Hybrid Electric Vehicles”, IEEE Transactions on Industry Applications, Vol.47, No.5, pp.2241-2249, September/October 2011.

48. M.A.S.K. Khan and M.A. Rahman, “Implementation of a Wavelet-Based MRPID Controller for Benchmark Thermal System”, IEEE Transactions on Industrial Electronics, Vol.57, No.12, pp.4160-4169, December 2010.

49. J. Asama, M. Amada, N. Tanabe, N. Miyamoto, A. Chiba, S. Iwasaki, M. Takemoto, T. Fukao and M.A. Rahman, “Evaluation of a Bearingless PM Motor with Wide Magnetic Gaps”, IEEE Transactions on Energy Conversion, Vol.25, No.4, pp.957-964, December 2010.

50. S.A. Saleh and M.A. Rahman, “Development and Testing of a new Controlled Wavelet-Modulated Inverter for IPM Motor Drives”, IEEE Transactions on Industry Applications, Vol.46, No.4, pp.1630-1643, July/August 2010.

51. M.A.S.K. Khan and M.A. Rahman, “A Novel Neuro-Wavelet-Based Self-Tuned Wavelet Controller for IPM Motor Drives”, IEEE Transactions on Industry Applications, Vol.46, No.3, pp.1194-1203, May/June 2010 (**prize paper Award**).

52. S.A. Saleh and M.A. Rahman, “Testing of a Wavelet-Packet-Transform-Based Differential Protection for Resistance-Grounded Three-Phase Transformers”, IEEE Transactions on Industry Applications, Vol.46, No.3, pp. 1109-1117, May/June 2010.

53. M.A.S.K. Khan and M.A. Rahman, “Development and Implementation of a Novel Fault Diagnostic and Protection Technique for IPM Motor Drives”, IEEE Transactions on Industrial Electronics, Vol. 56, No.1, pp.85-92, January 2009.

54. S.A. Saleh and M.A. Rahman, “Analysis and Real-Time Testing for a Controlled Single Phase Wavelet Modulated Inverter for Capacitor-Run Induction Motors”, IEEE Transactions on Energy Conversion, Vol.24, No.1, pp. 21-29, March 2009.

55. J. Asama, M. Amda, M. Takemoto, A. Chiba, T. Fukao and M. A. Rahman, “Voltage Characteristics of a Consequent-Pole Bearingless PM Motor with Concentrated Windings”, IEEE Transactions on Magnetics, Vol.45, No.6, pp. 2823-2826, June 2009.

56. S.A. Saleh, C. R. Maloney and M.A. Rahman, “Development and Testing of Wavelet Modulation for Single Phase Inverters”, IEEE Transactions on Industrial Electronics, Vol. 56, No.7, pp.2588-2599, July 2009.

57. A. Chiba, D. Akamatsu, T. Fukao and M.A. Rahman, “An Improved Rotor Resistance Identification Method for Magnetic Field Regulation in Bearingless Induction Motor Drives”, IEEE Transactions on Industrial Electronics, Vol. 55, No.2, pp 852-860, February 2008.

58. A. Chiba, T. Fukao and M.A.Rahman, “Vibration Suppression of a Flexible Shaft with a Simplified Bearingless Induction Motor Drive”, IEEE Transactions on Industry Applications, Vol. 44, No.3, pp. 745-752, May/June 2008.

59. A. Chiba, H. Hayashi, K. Nakamura, K. Tungpimlrut, T. Fukao, M.A.Rahman and M. Yoshida, “Test Results of a SRM Made of Layered Block of Heat-treated Amorphous Alloys”, IEEE Transactions on Industry Applications, Vol. 44, No.3, pp. 699-706, May/June 2008.

60. A. H. Isfahani, S. Vaez-Zadeh and M. A. Rahman, “ Using Modular Poles for Shape Optimization of Flux Density Distribution in Permanent Magnet- Machines” , IEEE Transactions on Magnetics, Vol.44, No.8, pp. 2009-2015, August 2008.

61. M.A. Rahman, T.S. Radwan, R.M. Milasi, C. Lucas and B.N. Arrabi, “Implementation of Emotional Controller for Interior Permanent Magnet Synchronous Motor Drive”, IEEE Transactions on Industry Applications, Vol. 44, No.5, pp.1466-1476, September/October 2008 (**Prize Paper**).

62. S.A. Saleh, C. R. Maloney and M.A. Rahman, “Implementation of a Dynamic Voltage Restorer System Based on Discrete Wavelet Transform”, IEEE Transactions on Power Delivery, Vol. 23, No. 4, pp.2366-2375, October 2008.

63. O. Ozgonenel, E. Kilic, M.A.S.K. Khan and M.A. Rahman, “A New Method for Fault Detection and Identification of Incipient Faults in Power Transformers”, Journal of Electric Power Components and Systems, Vol. 36, No. 11, pp. 1226-1244, November 2008.

64. M.A.S.K. Khan and M.A. Rahman, “Implementation of a New Wavelet Controller for Interior Permanent Magnet Motor Drives”, IEEE Transactions on Industry Applications, Vol. 44, No.5, pp. 1957-1965, November/December 2008.

65. M.A.S.K. Khan and M.A. Rahman, “A New Wavelet Based Speed Controller for Induction Motor Drives”, Journal of Electric Power Components and Systems, Vol. 36, No.12, pp. 1282-1298, December 2008.

66. T. Hiromi, T. Katou, A. Chiba, M.A. Rahman and T. Fukao, “ A Novel Magnetic Suspension-Force Compensation in Bearingless Induction- Motor Drive with Squirrel-Cage Rotor”, IEEE Transactions on Industry Applications, Vol. 43, No.1, pp.66-76, January/February 2007.

67. M.N. Uddin and M.A. Rahman, “ High Speed Control of IPMSM Drives using Improved Fuzzy Logic Algorithms”, IEEE Transactions on Industrial Electronics, Vol. 54, No.1, pp.190-199, February 2007.

68. M.A.S.K Khan, T.S. Radwan and M.A. Rahman, “Real-Time Implementation of Wavelet Packet Transform Based Diagnosis and Protection of Three-Phase Induction Motors”, IEEE Transactions on Energy Conversion, Vol.22, No.3, pp.647-655, September 2007.

69. S.A. Saleh, T.S. Radwan and M.A. Rahman, “Real-Time Testing of WPT-Based Protection of Three-Phase VS PWM Inverter-Fed Motors”, IEEE Transactions on Power Delivery, Vol.22, No. 4, pp.2108-2115, November 2007.

70. M.N. Uddin, T.S. Radwan and M.A. Rahman, “Fuzzy Logic Based Position Control of a PMSM Servo-Drive”, Journal of Control and Intelligent Systems, ACTA Press, Vol.35, No. 4, 2007

71. M.H. Hossain, M.A. Hoque, K.K. Islam, M.M. Ali and M.A. Rahman, “High Speed Control of IPMSM Drives using Improved Fuzzy Logic Algorithms”, International Journal of Systems Simulation, Vol.1, No.1, pp. 77-93, January-June 2007.

72. M.A.S.K. Khan, O. Ozgonenel and M.A. Rahman, “Wavelet Transform Based Protection of Stator Faults in Synchronous Generators”, Electric Power Components and Systems Journal, Vol.35, No. 6, pp.625-637, June 2007.

73. M.N. Uddin, T.S. Radwan and M.A. Rahman, “ Fuzzy Logic Controller Based Cost Effective 4-Switch, 3-Phase, Inverter Fed IPM Synchronous Motor Drive System”, IEEE Transactions on Industry Applications, Vol. 42, No.1, pp.21-30, January/February 2006.

74. T. Tera, Y. Yamuchi, A. Chiba, T. Fukao and M.A. Rahman, “Performances of Bearingless and Sensorless Induction Motor Drive Based on Mutual Inductances and

Rotor Displacements Estimation", IEEE Transactions on Industrial Electronics, Vol. 53, No.1, pp.187-194, February 2006.

75. A. Chiba, K. Kiryu, M.A. Rahman and T. Fukao, " A Radial Force and Speed Detection for Improved Magnetic Suspension in Bearingless Motors", IEEE Transactions on Industry Applications, Vol.42, No.2, pp.415-422, March/April 2006.

76. M.A. Rahman, M. Nasir Uddin and M.A. Abido, "An Artificial Neural Network for On-line Tuning of Genetic Algorithm based PI Controller for Interior Permanent Magnet Synchronous Motor Drive" , Canadian Journal of Electrical and Computer Engineering, Vol. 31, No. 3, pp. 159-165, Summer 2006.

77. M. Nasir Uddin, T.S. Radwan and M.A. Rahman, "Performance Analysis of a Cost Effective 4-Switch, 3-Phase, 3-Phase Inverter Fed IM Drive", Iranian Journal of Electrical and Computer Engineering, Vol.5, No.2, pp.1-6, 2006.

78. M.N. Uddin, M.A. Abido and M.A. Rahman, "Real-Time Performance Evaluation of a Genetic Algorithm Based Fuzzy Logic Controller for IPMSM Drives", IEEE Transactions on Industry Applications, Vol.41, No.1, pp.246-252, January/February 2005.

79. Saleh A. Saleh and M.A. Rahman, "Modeling and Protection of a Three-Phase Power Transformer Using Wavelet Packet Transform", IEEE Transactions on Power Delivery, Vol. 20, No. 2, pp.1273-1282, April 2005.

80. Saleh A. Saleh and M.A. Rahman, "A New Transient Model for Three Phase Power Transformer Using a Wavelet Filter Bank", IEEE Transactions on Power Delivery, Vol. 20, No. 1, pp. 1409-1419, April 2005.

81. S.A. Saleh and M.A. Rahman, " Real-time Testing of a WPT-Based Protection Algorithm for Three-Phase Power Transformers", IEEE Transactions on Industry Applications, Vol.41, No.4, pp.1125-1132, July/August 2005.

82. Kazuyoshi Asami, Akira Chiba, M. Azizur Rahman, Takeshi Hoshino and Atsushi Nakajima, "Stiffness Analysis of a Magnetically Suspended Bearingless Motor with Permanent Magnet Passive Positioning", IEEE Transactions on Magnetics, Vol.41, No.10, pp.3820-3822, October 2005

83. Z.Z. Liu, F.L. Luo and M.A. Rahman, "Robust and Precision Motion Control System of Linear Motor Direct-Drive for High Speed X-Y Table Positioning", IEEE Transactions on Industrial Electronics, Vol.52, No. 5, 1357-1363, October 2005.

84. M.N. Uddin, M.A. Abido and M.A. Rahman, " Development and Implementation of a Hybrid Intelligent Controller for Interior Permanent Magnet Synchronous Motor Drive", IEEE Transactions on Industry Applications, Vol. 40, No.1, pp. 68-76, January/February 2004. (**prize paper**)

85. C. Butt, M.A. Hoque and M.A. Rahman, "Simplified Fuzzy Logic Based MTPA Speed Control of IPMSM Drive", IEEE Transactions on Industry Applications, Vol. 40, No.6, pp1529-1935, November/December 2004.

86. K. Kurihara and M.A. Rahman, “Transient Performances Analysis of Permanent Magnet Hysteresis Synchronous Motor”, IEEE Transactions on Industry Applications, Vol. 40, No.1, pp.135-143, January/February 2004.

87. K. Kurihara and M.A. Rahman, “High Efficiency Line-Start Interior Permanent Magnet Synchronous Motors”, IEEE Transactions on Industry Applications, Vol. 40, No.3, pp. 789-796, May/June 2004

88. M. Ooshima, A. Chiba, M.A. Rahman and T. Fukao, “An Improved Control Method of Buried-type IPM Bearingless Motors Considering Magnetic Saturation and Magnetic Pull Variation”, IEEE Transactions on Energy Conversion, Vol.19, No.3, pp.569-575, September 2004.

89. M.A. Rahman, M. Vilathgamuwa, M.N. Uddin and K.J. Tseng, “Non-linear Control of Interior Permanent Magnet Synchronous Motor”, IEEE Transactions on Industry Applications, Vol.39, No.2, pp.408-416, March/April 2003.

90. M.F. Rahman, L. Zhong, M.E. Hague and M.A. Rahman, “A Direct Torque Controlled Interior Permanent Magnet Synchronous Motor Drive without a Speed Sensor”, IEEE Transactions on Energy Conversion, Vol. 18, No. 1, pp.17-22, March 2003.

91. R. Qin and M.A. Rahman, “Magnetic Equivalent Circuit of PM Hysteresis Synchronous Motors”, IEEE Transactions on Magnetics, Vol.39, No.5, pp.2998-3000, September 2003.

92. Y. Yi, M. Vilathgamuwa and M.A. Rahman, “Implementation of Artificial Neural Network based Real-time Adaptive Controller for an Interior Permanent Magnet Motor Drive”, IEEE Transactions on Industry Applications, Vol.39, No.1, pp.96-104, January/February 2003.

93. M.N. Uddin, T.S. Radwan and M.A. Rahman, “Performances of Fuzzy Logic Based Indirect Vector Control of Induction Motor Drive”, IEEE Transactions on Industry Applications, Vol.38, No.5, pp.1219-1225, September/October 2002.

94. A.I. Maswood, K. B. Yusof and M.A. Rahman, “A Novel Suppressed-Link Rectifier-Inverter Topology With Near Unity Power Factor”, IEEE Transactions on Power Electronics, Vol.17, No.5, pp.692-700, September 2002.

95. M.N. Uddin, T.S. Radwan and M.A. Rahman, "Performance of Interior Permanent Magnet Motor Drive over Wide Speed Range", IEEE Transactions on Energy Conversion, Vol.17, No.1, pp. 79-84,March 2002.

96. M. Takemoto, A. Chiba, H. Suzuki, T. Fukao and M.A. Rahman, “Improved Analysis of a Bearingless Switched Reluctance Motor”, IEEE Transactions on Industry Applications, Vol.37, No.1, pp. 26-34, January/February 2001.

97. M.N. Uddin and M.A. Rahman, "Fuzzy Logic Based Speed Control of IPM Synchronous Motor Drive", Journal of Advanced Computational Intelligence, Vol. 4, No.3, pp. 212-219, 2000.

98. M. Nasir Uddin, Tawfik S. Radwan, G.H. George and M.A. Rahman, “Performance of Current Controllers for VSI-Fed IPMSM Drive”, IEEE Transactions on Industry Applications, Vol.36, No.6, pp. 1531-1538, November/December 2000.

99. T.S. Radwan, A.E. Lashine and M.A. Rahman, “A New Three- Phase Boost-Type Voltage Regulator with Input Unity Factor”, Transactions of IEE Japan, Vol.120-D, No.12, pp.1501-1507, December 2000.

100. T.S. Radwan, A.E. Lashine and M.A. Rahman, “A Novel AC/AC Buck-Boost Voltage Regulator with Unity Input Power Factor”, International journal of Electronics, Vol. 87, No.2, pp.199-210, February 2000.

101. T. Suzuki, A. Chiba, M.A. Rahman and T .Fukao, “An Air-gap Flux-Oriented Vector Controller for Stable Operation of Bearingless Induction Motors”, IEEE Transactions on Industry Applications, Vol.36, No.4, pp. 1069-1076, July/August 2000.

102. S.L. Ho, S. Yang, P. Zhou, H.C. Wong and M.A. Rahman, “Combined Finite Element-Domain Elimination Method for Minimizing Torque Ripples in Inverter-Fed AC Motor Drive Systems”, IEEE Transactions on Magnetics, Vol.36, No. 4, pp.1817-1821, July 2000.

103. S. Yang, G. Ni, S.L. Ho, J.M. Machado, M.A. Rahman and H.C. Wong, “ Wavelet-Galerkin Method for Computations of Electromagnetic Fields- Computation of Connection Co-efficient”, IEEE Transactions on Magnetics, Vol.36, No. 4, pp.644-648 July, 2000.

104. L. Zhong, M.F. Rahman, W.Y. Hu, K.W. Lim and M.A. Rahman, “A Direct Torque Controller for Permanent Magnet Synchronous Motor Drives”, IEEE Transactions on Energy Conversion, Vol. 14, No. 3, pp. 637-642, September 1999 .

105. T. Song, M.F. Rahman, K.W. Lim and M.A. Rahman, “A Singular Perturbation Approach to Sensorless Control of a Permanent Magnet Synchronous Motor drive”, IEEE Transactions on Energy Conversion, Vol.14, No.4, pp.1359-1365 December 1999.

106. S. Vaez, V.I. John and M.A. Rahman, “An on-line Loss Minimization Controller for Interior Permanent Magnet Motor Drives”, IEEE Transactions on Energy Conversion, Vol.14, No.4, pp.1435-1440, December 1999.

107. M.A. Rahman and M.A. Hoque, “On-line Adaptive Artificial Neural Network based Vector Control of Permanent Magnet Synchronous Motor “IEEE Transactions on Energy Conversion, Vol. 13, No. 4, pp. 311-318, December 1998.

108. M.R. Zaman and M.A. Rahman, “Experimental Testing of Artificial Neural Network Based Protection of Power Transformers”, IEEE Transactions on Power Delivery, Vol. 13, No. 2, pp. 510-517, April 1998.

109. A.I. Maswood and M.A. Rahman, “A Survey of Delta Modulation Techniques: Characteristic and Sub-harmonic Elimination for VSI,” Electric Machines and Power Systems Journal, Vol. 26, No. 6, pp. 635-648, July 1998.

110. M.A. Rahman, B. So, M.R. Zaman and M.A. Hoque, “Testing of Algorithms for a Stand-Alone Digital Relay for Power Transformers”, IEEE Transactions on Power Delivery,” Vol. 13, No. 2, pp. 374-385, April 1998.

111. M.A. Rahman, T.S. Radwan, A.M Osheiba and A.E. Lashine, “Analysis of Current Controllers for Voltage Source Inverters”, IEEE Transactions on Industrial Electronics Vol.44, No.4, pp. 477- 495, August 1997.

112. M.A. Rahman and M.A. Hoque, “On-line Self-Tuning ANN-Based Speed Control of a PM DC Motor”, IEEE/ASME Transactions on Mechatronics, Vol. 2, No. 3, pp. 169-178, September 1997.

113. M.A Rahman and M.A. Haque, “Correction to On-line Self-Tuning ANN-Based Speed Control of a PM DC Motor”, IEEE/ASME Transactions on Mechatronics, Vol. 2, No. 4, pp. 287, December 1997.

114. M.A. Rahman and R. Qin, “A Permanent Magnet Hysteresis Hybrid Synchronous Motor for Electric Vehicles”, IEEE Transactions on Industrial Electronics, Vol. 44, No.1, pp. 46-53, February 1997.

115. M.A. Rahman, A.M. Osheiba and T.S. Radwan, “Synchronization Process of Line-Start Permanent Magnet Synchronous Motors”, Electric Machines and Power Systems Journal, Vol. 25, No. 6, pp. 577-593, July 1997.

116. K.M. Rahman, M.R. Khan, M.A. Choudhury and M.A. Rahman, “Variable-Band Hysteresis Current Controllers for PWM Voltage-Source Inverters,” IEEE Transactions on Power Electronics, Vol. 12, No. 6, pp. 964-970, November 1997.

117. M.A. Rahman, “An Effective Method for Rotor Resistance Identification for High-Performance Induction Motor Vector Control”, IEEE Transactions on Industrial Electronics, Vol. 44, No. 3, pp. 431-432, June 1997.

118. A.I. Maswood and M.A. Rahman, “Performance Parameters of a Pulse-Width Modulation Voltage Source Inverter with Proportional Integral Controller under Non-Ideal Conditions”, Electric Power System Research Journal, Vol. 38, pp. 19-24, May 1996.

119. M. Ooshima, A. Chiba, T. Fukao and M.A. Rahman, "Design and Analysis of Radial Force in a Permanent Magnet Type Bearingless Motor", IEEE Transactions on Industrial Electronics, Vol. 43, No. 2, pp. 292-299, April 1996.

120. M.A. Rahman and Ping Zhou, "Field Circuit Analysis of Brushless Permanent Magnet Synchronous Motors", IEEE Transactions on Industrial Electronics, Vol. 43, No. 2, pp. 256-267, April 1996.

121. A. Chiba, M. Hanazawa, T. Fukao and M.A. Rahman, "Effects of Magnetic Saturation on Radial Force of Bearingless Synchronous Reluctance Motors", IEEE Transactions on Industry Applications, Vol. 32, No. 2, pp. 354-362, March/April1996.

122. M.A. Rahman and R. Qin, “Starting and Synchronization of Permanent Magnet Hysteresis Motors”, IEEE Transactions on Industry Applications, Vol. 32, No. 5, pp. 1183-1189, September/October 1996.

123. A. M. Osheiba and M.A. Rahman, “Performance Analysis of Self-Excited Single Phase Isolated Synchronous Generators”, Electric Machines and Power Systems Journal, Vol. 27, No. 7, pp. 773-784, 1996.

124. M. R. Zaman and M.A. Rahman, “Power Transformer Protection Using Artificial Neural Network”, Canadian Electrical Association Transactions, Vol. 36, pp. 1-19, 1996.

125. M.A. Rahman, A.M. Osheiba, T.S. Radwan and E.S. Abdin, “Modeling and Controller Design of an Isolated Diesel Engine Permanent Magnet Synchronous Generator”, IEEE Transactions on Energy Conversion, Vol. 22, No. 2, pp. 324-330, June 1996.

126. M. R. Zaman, M. A. Hoque and M.A. Rahman, “Artificial Neural Network Based Protection of Transformers”, Canadian Electrical Association Transactions, Vol. 35, pp. 1-22, 1995.

127. A. Chiba, D.T. Power and M.A. Rahman, "Analysis of No-load Characteristics of a Bearingless Induction Motor", IEEE Transactions on Industry Applications, Vol. 31, No. 1, pp. 77-83, January/February 1995.

128. M.A. Rahman, A.R.D. Esmail and M.A. Choudhury, " Analysis of Delta PWM Static AC-DC Converters ", IEEE Transactions on Power Electronics, Vol. 10, No. 4, pp. 494-503, July 1995.

129. M.A. Rahman and Ping Zhou, "Accurate Determination of Permanent Magnet Motor Parameters by Digital Torque Angle Measurement", Journal of Applied Physics, Vol. 76(10) , pp. 6868-6870, November 1994.

130. A. Chiba, T. Deido, T. Fukao and M.A. Rahman, "An Analysis of Bearingless ac Motors”, IEEE Transactions on Energy Conversion, Vol. 9, No. 1, pp. 61-68, March 1994.

131. B. Jeyasurya and M.A. Rahman, "Error Compensation in Digital Relays for Transmission Lines", Canadian Electrical Association Transactions, Vol. 34, pp. 1-17, 1994.

132. Ping Zhou, M.A. Rahman and M. A. Jabbar, "Field and Circuit Analysis of Permanent Magnet Machines", IEEE Transactions on Magnetics, Vol. 30, No. 4, pp. 1350-1359, July 1994.

133. M.A. Rahman and Ping Zhou, "Field Based Analysis of Permanent Magnet Motors", IEEE Transactions on Magnetics, Vol. 30, No.5, pp. 3664-3667, September 1994.

134. J. Qian and M.A. Rahman, "An Analysis of Field Oriented Control for Permanent Magnet Hysteresis Synchronous Motor", IEEE Transactions on Industry Applications, Vol.29, No.6, 1993, pp. 1156-1163, November/December.

135. A. Chiba, K. Ikeda, F. Nakamura, T. Deido, T. Fukao and M.A. Rahman, "Principles and No Load Characteristics of Bearingless Motors with a Cylindrical Rotor," Transactions of IEE Japan, Vol. 113-D, No.4, pp. 539-547, 1993.

136. B. So and M.A. Rahman, "Experimental Testing of a Stand-Alone Digital Relay for Power Transformer", Canadian Electrical Association Transactions, Vol. 33, 93-SP-104, pp. 1-23, 1993.

137. M.A. Choudhury and M.A. Rahman, "Starting Performances of Delta Modulated Inverter-Fed Submersible Induction Motors", IEEE Transactions on Industry Applications, Vol. 28, No. 3, pp. 685-693, May/June, 1992.

138. M.A. Choudhury and M.A. Rahman, "Determination of Operating Conditions of Submersible Induction Motors", IEEE Transactions on Industry Applications, Vol. 28, No. 3, pp. 680-684, May/June, 1992.

139. H. Lihua, Y. Yilin, M.A. Rahman, T.D.W. Chan and P.K.S. Ong, "A Novel Algorithm for Digital Protection of Power Transformers", Canadian Electrical Association Transactions*, Vol. 31, Part 4, 92-SP-165, pp. 1-20, 1992.

140. M.A. Rahman, M.A. Choudhury and A.H. Choudhury, "Time-Domain Analysis of PWM Inverter-fed Induction Motor Performance", Journal of I.E., Bangladesh, Vol. 19, No. 1-2, pp. 1-11, January/April 1991.

141. M.A. Rahman, "Modern Electric Motors", Electrical Technology in Industry, pp. 93-98, 1991.

142. A. Chiba, D.T. Power and M.A. Rahman, "Characteristics of a Bearingless Induction Motor", IEEE Transactions on Magnetics, Vol. 27, No. 6, pp. 5199-5201, November 1991.

143. K.A. Ahmed, A.M. Osheiba and M.A. Rahman, "Performance Prediction of Shaded Pole Induction Motors", IEEE Transactions on Industry Applications, Vol. 27, No. 5, pp. 876-882, September/October,1991.

144. M.A. Rahman and Ping Zhou, "Determination of Saturated Parameters of P.M. Motor Using Loading Magnetic Fields", IEEE Transactions on Magnetics, Vol. 27, No. 5, pp. 3947-3950, September 1991.

145. A.M. Osheiba and M.A. Rahman, "Performance Analysis of Self-excited Induction and Reluctance Generators", Journal of Electric Machines and Power Systems, Vol. 19, No. 3, pp. 477-499, May/June 1991.

146. B. Jeyasurya and M.A. Rahman, "Simulation of Transmission Line Fault Locations in a Personal Computer", IEEE Transactions on Industry Applications, vol. 27, no. 2, pp. 299-302, March/April, 1991.

147. A. Chiba, M.A. Rahman and T. Fukao, "Radial Force in a Bearingless Reluctance Motor", IEEE Transactions on Magnetics, Vol. 27, No. 2, pp. 786-790, March 1991.

148. M.A. Jabbar and M.A. Rahman, "Radio Frequency Interference of Electric Motors", IEEE Transactions on Industry Applications, Vol. 27, No.1, pp.27-31, January./February,1991.

149. A. Chiba, F. Nakamura, T. Fukao and M.A. Rahman, "Inductances of Cage less Synchronous Machines having Non-Sinusoidal Space Distributions", IEEE Transactions on Industry Applications, Vol. 27, No. 1, pp. 44-51, January/February. 1991.

150. Ivi Hermanto, Y.V.V.S. Murthy and M.A. Rahman, "A Stand-Alone Digital Protective Relay for Power Transformers", IEEE Transactions on Power Delivery, Vol. 6, No. 1, pp. 85-95, January 1991.

151. M.A. Rahman, I. Hermanto and Y.V.V.S. Murthy, "Design and Testing of Microprocessor-Based Protective Relay for Power Transformers", Canadian Electrical Association Transactions*, Vol. 29, Part 4, 90-sp-161, pp. 1-28, 1990.

152. M.A. Rahman and A.M. Osheiba, "Dynamic Performance Prediction of Polyphase Hysteresis Motors", IEEE Transactions on Industry Applications, Vol. 26, No. 6, pp. 1026-1033 , November/December. 1990. (**prize paper**)

153. M.A. Rahman and A.M. Osheiba, "Improved Performance of Polyphase Hysteresis-Reluctance Motors Fed from Single-Phase Supplies", IEEE Transactions on Industry Applications, Vol. 26, No. 1, pp. 130-136, January/February,1990.

154. A.M. Osheiba and M.A. Rahman, "Effect of Parameter Variations on the Stability Limits of Permanent Magnet Motors", Journal of Electric Machines and Power Systems, Vol. 18, No. 6, pp. 519-534, November/December, 1990.

155. Teck-Seng Low, M.A. Jabbar and M.A. Rahman, "Permanent-Magnet Motors for Brushless Operation", IEEE Transactions on Industry Applications, Vol. 26, No. 1, pp. 124-129, January/February, 1990.

156. M.A. Rahman and A.M. Osheiba, "Performance of Large Line-Start Permanent Magnet Synchronous Motors", IEEE Transactions on Energy Conversion, Vol. 5, No. 1, pp. 211-217, March 1990.

157. A.M. Osheiba, J. Qian and M.A. Rahman, "Performance of Hysteresis Permanent Magnet Motors", Journal of Electric Machines and Power Systems, Vol. 16, No. 4, pp. 265-280, 1989.

158. A.M. Osheiba, M.A. Rahman, A.D. Esmail and M.A. Choudhury, "Stability of Interior Permanent Magnet Synchronous Motors", Journal of Electric Machines and Power Systems, Vol. 16, No. 6, pp. 411- 430, 1989.

159. B. Jeyasurya, C.A. Bhat and M.A. Rahman, "An Accurate Algorithm for Transmission Line Fault Location Using Digital Relay Measurements", Journal of Electric Machines and Power Systems, Vol. 16, No. 1, pp. 25-34, 1989.

160. M.A. Rahman and B. Jeyasurya, "A State-of-the-art Review of Transformer Protection Algorithms", IEEE Transactions on Power Delivery, Vol. 3, No. 2, pp. 531-544, April 1988.

161. B. Jeyasurya and M.A. Rahman, "Analysis and Review of Transmission Line Fault Locating Algorithms", Canadian Electrical Association Transactions, Vol. 27, Part 4, 88-SP-159, pp. 1-15, 1988.

162. M.A. Rahman and A.M. Osheiba, "Parameter Sensitivity Analysis of Line start Permanent Magnet Motors", Electric Machines and Power Systems Journal, Vol. 14, No. 3-4, pp. 195-212, 1988.

163. P.K. Dash and M.A. Rahman, "A New Algorithm for Digital Protection of Power Transformer", Canadian Electrical Association Transactions, Vol. 26, Part 4, pp. 1-8, (87-SP-169), 1987.

164. M.A. Rahman, "Analytical Models for Exterior-type Permanent Magnet Synchronous Motors", IEEE Transactions on Magnetics, Vol. MAG-23, No. 5, pp. 3625-3627, September 1987.

165. M.A. Rahman, J.E. Quaicoe and M.A. Choudhury, "Performance Analysis of Delta Modulated Inverters", IEEE Transactions on Power Electronics, Vol. PE-2, No. 3, pp. 227-233, July 1987.

166. A. Gangopadhyay, M.A. Rahman, B. Jeyasurya, "Simulation of Magnetizing Inrush Currents in Single Phase Transformers", International Journal of Energy Systems, Vol. 7, No. 1, pp. 34-38, 1987.

167. M.A. Rahman, A.M. Osheiba and M.A. Choudhury, "Transient Performance of Permanent Magnet Motors", Advances in Ceramics, Vol. 16, Part III, pp. 547-553, 1986.

168. B. Jeyasurya and M.A. Rahman, "A Comparative Study of Transformer Protection Algorithms", Canadian Electrical Association Transactions, Vol. 25, Part 4, pp. 1-30 (86-SP-154), 1986.

169. M.A. Rahman and A. Gangopadhay, "Digital Simulation of Magnetizing Inrushes Currents in Three Phase Transformers", IEEE Transactions on Power Delivery, Vol. PWRD-1, No. 4, pp. 235-242, October 1986.

170. T. Sebastian, G.R. Slemon and M.A. Rahman, "Modeling of Permanent Magnet Synchronous Motors", IEEE Transactions on Magnetics, Vol. MAG-22, No. 5, pp. 1069-1071, September 1986

171. M.A. Rahman and A.M. Osheiba, "Steady State Performance of Polyphase Hysteresis Reluctance Motors", IEEE Transactions on Energy Conversion, Vol. EC-1, No. 3, pp. 129-134, September 1986.

172. A.M. Osheiba and M.A. Rahman, "Transient Performance of Hysteresis Motors with Ferrite Magnets", Electric Machines and Power Systems Journal, Vol. 11, No. 2, pp. 147-158, 1986.

173. B. Jeyasurya and M.A. Rahman, "Transmission Line Distance Protection by Spectral Estimation Using Rectangular Waved Transforms", Electric Machines and Power Systems Journal, Vol. 11, No. l, pp. 65-75, January /February, l986.

174. M.A. Rahman, B. Jeyasurya and A. Gangopadhyay, "Digital Differential Protection of Power Transformers Based on Walsh Function", Canadian Electrical Association Transactions*, Vol. 24, Part 3, 85-SP-149, pp. 1-17, 1985.

175. B. Jeyasurya and M.A. Rahman, "Application of Walsh Functions for Microprocessor Based Transformer Protection", IEEE Transactions on Electromagnetic compatibility, Vol. EMC-27, No. 4, pp. 221-225, November l985.

176. M.A. Rahman and M.A. Choudhury, "Performance Analysis of Samarium Cobalt P.M. Synchronous Motors Fed from PWM Inverters", Rare Earth Developments and Applications, pp. 1009-1028, China Academic Publishers, l985.

177. M.A. Rahman and A.M. Osheiba, "Steady State Performance Analysis of Polyphase Hysteresis - Reluctance Motors", IEEE Transactions on Industry Applications, Vol. IA-2, No. 3, pp. 659-663, May/June, l985.

178. M.A. Rahman and G.R. Slemon, "Promising Applications of Neodymium Boron Iron Magnets in Electrical Machines", IEEE Transactions on Magnetics, Vol. MAG-21, No. 5, pp. 1712-1716, September 1985.

179. M.A. Rahman, T.A. Little and G.R. Slemon, "Analytical Models for Interior Type Permanent Magnet Synchronous Motors", IEEE Transactions on Magnetics, Vol. MAG-21, No. 5, pp. 1741-1743, September 1985.

180. A. Gangopadhyay and M.A. Rahman, "Analysis and Computer Simulation of Magnetizing Inrush Current for Transformers: Part II - Three Phase", Canadian Electrical Association Transactions*, Vol. 24, Part 3, 85-SP-148, 1985.

181. M.A. Rahman, "Comparative Performance Analysis of Algorithms for Microprocessor Based Differential Protection of Power Transformer", the Muslim Scientist, Vol. 13, No. 3 and 4, pp. 12-28, December 1984.

182. M.A. Rahman, A.M. Osheiba and M.A. Choudhury, "Run-up Responses of Polyphase Permanent Magnet Synchronous Motors", Electric Machines and Power Systems Journal, Vol. 9, pp. 347-356, 1984.

183. M.A. Rahman and A.M. Osheiba, "Transient Performance Analysis of Polyphase Hysteresis Reluctance Motors", Electric Machines and Power Systems Journal, Vol. 9, pp. 231-239, 1984.

184. M.A. Rahman, A.M. Osheiba, T.A. Little and G.R. Slemon, "Effects of Samarium Cobalt Permanent Magnet on the Performance of Polyphase Hysteresis - Reluctance Motors", IEEE Transactions on Magnetics, Vol. Mag-20, No. 5, pp. 1765-1767, September 1984.

185. M.A. Rahman and T.A. Little, "Dynamic Performance Analysis of Permanent Magnet Synchronous Motors", IEEE Transactions on Power Apparatus and Systems, Vol. PAS-103, No. 6, pp. 1277-1282, 1984.

186. R.D. Jackson, M.A. Rahman and G.R. Slemon, "Analysis and Determination of Ring Flux Distribution in Hysteresis Motors", IEEE Transactions on Power Apparatus and Systems", Vol. PAS-102, No. 8, pp. 2743-2749, 1983.

187. M.A. Rahman and P.K. Dash, "Fast Algorithm for Digital Protection of Power Transformers", Proc. IEE, Vol. 129, Part C, No. 2, pp. 79-85, 1982.

188. P.K. Dash, M.A. Rahman and P.C. Panda, "Dynamic Analysis of Power Systems with Multi-terminal HVDC Links and Static Compensators", IEEE Transactions on Power Apparatus and Systems, Vol. PAS-101, No. 6, pp. 1332-1341, 1982.

189. M.A. Rahman, P.K. Dash and E.W. Downton, "Digital Protection of Power Transformers Based on Weighted Least Square Algorithm", IEEE Transactions on Power Apparatus and Systems, Vol. PAS-101, pp. 4204-4210, November 1982.

190. M.A. Rahman, M. Poloujadoff, R.D. Jackson, J. Perard and S.S. Gowda, "Improved Algorithms for Digital Simulation of Hysteresis Processes in Semi-hard Magnetic Materials", IEEE Transactions on Magnetics, Vol. Mag-17, No. 6, pp. 3253-3255, November 1981.

191. M.A. Rahman and P.K. Dash, "Stabilization of AC-DC Power System using a Controlled Multiterminal HVDC Link", Electric Power System Research Journal, Elsevier Sequoia, Vol. 4, pp. 135-146, 1981.

192. M.A. Rahman, "Field Analysis of Polyphase Hysteresis Motor", IEEE Transactions on Power Apparatus and Systems, Vol. PAS-99, No.3 , pp. 1164-1171, May/June, 1980.

193. G.R. Slemon, R.D. Jackson and M.A. Rahman, "Performance Predictions for Large Hysteresis Motors", IEEE Transactions, Power Apparatus and Systems, Vol. PAS-96, No. 6, pp. 1915-19, November/December, 1977.

194. P.M. Mintchev, C.D. Christov and M.A. Rahman, "Analysis of Flux in Electromagnets Having Rectangular Cross-section", IEEE Transactions on Magnetics, Vol. Mag-11, No. 5, pp. 1550-1551, September 1975.

195. M.A. Rahman, "Reaction Effect of Eddy Currents on Open Circuit Tooth Ripple Loss in Smooth Laminated Poles", IEEE Transactions, Power Apparatus and Systems, Vol. PAS-93, No. 5, pp. 1478-87, 1974.

196. M.A. Rahman, "Analytical Models for Polyphase Hysteresis Motor", IEEE Transactions, Power Apparatus and Systems, Vol. PAS-92, No. 1, pp. 237-242, January 1973.

197. M.A. Rahman, A.K.M. Shamsuddin and K.M. Hyder, "Impact of War on the Power System in Bangladesh", Journal of the IE, Bangladesh, Vol. I, pp. 87-94, 1973.

198. M.A. Rahman and R.M. Karim, "Digital Computer Solution of Load Flows in Western Grid", Journal of the I.E., Bangladesh, Vol. 1, pp. 95-110, 1973.

199. M.A. Rahman, "Design of Hysteresis Motor", Journal I.E., the Pakistan Engineer, Vol. 10, No. 12, pp. 1205-1210, December 1970.

200. M.A. Rahman, "Minor Loop Losses in Hysteresis Torque Devices using Permanent Magnet Materials", IEEE Transactions on Magnetics, Vol. MAG-6, No. 3, pp. 474-476, September 1970.

201. M.A. Rahman, "Use of Synchronous Hysteresis Motors in Low Lift Power Pumps", Journal I.E., the Pakistan Engineer, Vol. 9, No. 12, pp. 607-609, December 1969.

202. M.A. Rahman, "Reaction Effects on Induced Eddy Currents in Pole Face Loss", Journal I.E., the Pakistan Engineer, Vol. 9, No. 10, pp. 459-461, 1969.

203. M.A. Rahman, M.A. Copeland and G.R. Slemon, "An Analysis of the Hysteresis Motor, Part III: Parasitic Losses", IEEE Transactions, Power Apparatus and Systems, New York, Vol. PAS-88, No. 6, pp. 954-961, June 1969. (**Prize Paper**)

Refereed Journal Letters, Short Notes, Digests Abstracts, Discussions, etc.

204. A.I. Maswood, T.G. Neo and M.A. Rahman, “An Optimum Approach to PWM- SHE Gating Signal Generation”, IEEE Power Engineering Review, Vol.21, No.3, March 2001, pp. 61-62.

205. A.I. Maswood and M.A. Rahman, “Boosting of Fundamental Output Voltage in Delta Modulated Inverters”, IEEE Power Engineering Review, Vol.20, No.12, December 2000, pp.51-53.

206. M.A. Rahman, Discussion on “An Effective Method for Rotor Resistance Identification for High-Performance Induction Motor Vector Control”, IEEE Transactions on Industrial Electronics, Vol. 44, No. 3, June 1997, pp. 431-432.

207. M.A. Rahman and M.A. Hoque, G. Kaplan’s Comments on Real-time Implementation of ANN in dc PM Motors, IEEE Spectrum, January 1996, pp100

208. M.A. Rahman and B. Jeyasurya, "Discussion, Training An Artificial Neural Network to Discriminate Between Magnetizing Inrush and Internal Faults", IEEE Transactions on Power Delivery, Vol. 9, No. 1, January 1994, pp. 441.

209. B. Jeyasurya and M.A. Rahman, "Discussion, Adaptive Relay Setting for Stand-Alone Digital Distance Protection", IEEE Transactions on Power Delivery, Vol. 9, No. 1, January 1994, pp. 488-490.

210. M.A. Rahman, "Discussion, Slot Ripples in the Damper Windings of a Salient-Pole Synchronous Generator", IEEE Transactions on Energy Conversion, Vol. 9, No. 1, March 1994, pp. 133-134.

211. A. Chiba, D.T. Power and M.A. Rahman, "Characteristics of a Bearingless Induction Motor", 5th Joint Magnetism and Magnetic Materials and IEEE INTERMAG Digest, IEEE Catalog No. PP.91 CH273-8 1991, pp. HF-08.

212. M.A. Rahman, "Discussion on Synthesis of Squirrel-Cage Motors, a Key to Optimization", IEEE Transactions on Energy Conversion, vol. 6, no. 2, June 1991, pp. 334-335.

213. M.A. Rahman, Discussion "Analytical Solution for the Field of a Hysteresis Motor based on Complex Permeability", IEEE Transactions on Energy Conversion, Vol. 5, No. 1, March 1990, pp. 163.

214. M.A. Rahman and A.M. Osheiba, "Running Performance of Permanent Magnet Motors with NdBFe Magnets, IEEE Intermag. Digest, IEEE Catalog No. 89CH2731-8, March 28- April 1, Washington D.C., 1989, pp. HB-07.

215. M.A. Rahman, Discussion, "Determination of Permanent Magnet Synchronous Motor Parameters for Use in Brushless DC Motor Drive Analysis", IEEE Transactions on Energy Conversion, Vol. 3, No. 3, 1988, pp. 681.

216. M.A. Rahman Discussion, "Digital Impedance Protection of Power Transmission Lines using Spectral Observer", IEEE Transactions on Power Delivery, Vol. 3, No. 1, January 1988, pp. 109-110.

217. M.A. Rahman, Discussion, "Design and Implementation of a Digital Differential Relay for a 3-phase Power Transformer based on Kalman Filtering Theory", IEEE Transactions on Power Delivery, Vol. 3, No. 1,April 1988, pp.529-530.

218. M.A. Rahman, Discussion, "The Hysteresis Motor with an Anisotropic Rotor", IEEE Transactions on Energy Conversion, Vol. EC-2, No. 4, December 1987, pp. 613-14.

219. M.A. Rahman, "Discussion, Characteristic and Performance Analysis of a Permanent Magnet Motor with a Multi-stacked Imbricated Rotor", IEEE Transaction on Energy Conversion, Vol. EC-2, No. 3, September 1987, pp. 457.

220. M.A. Rahman and A. Gangopadhyay, Discussion, "Optimal Estimation of Voltage Phasors and Frequency Deviations Using Linear and Nonlinear Kalman Filtering: Theory and Applications", IEEE Transactions on Power Apparatus and Systems, Vol. PAS-103, No. 10, 1984, pp. 2950.

221. M.A. Rahman and T.A. Little, Discussion, "The Fields and Parameters of Interior Type AC Permanent Magnet Machines", IEEE Transactions on Power Apparatus and Systems, Vol. PAS-101, No. 4, 1982, pp. 876.

222. M.A. Rahman, Discussion, "The Alpha Modified Quasi-second order Newton-Raphson Method for Load Flow Solutions in Rectangular Form", IEEE Transactions on Power Apparatus and Systems, Vol. PAS-101, No. 4, 1982, pp. 865-866.

223. M.A. Rahman, Discussion, "The Alpha Modified Quasi-second order Newton-Raphson Method for Load Flow Solutions in Rectangular Form", IEEE Transactions on Power Apparatus and Systems, Vol. PAS-101, No. 4, 1982, pp. 865-866.

224. M.A. Rahman, Discussion, "Open Circuit Tooth Ripple Losses in Slotted Laminated Poles of Electrical Machines with Amortisseur Windings", IEEE Transactions on Power Apparatus and Systems, Vol. PAS-101, No. 5, 1982, pp. 1128.

225. M.A. Rahman, Discussion, "Performance of Polyphase Permanent Magnet Machines: Asynchronous Operation" by V.B. Honsiger, IEEE Transactions on Power Apparatus and Systems, Vol. PAS-99, No. 4, July/August 1980, pp. 1157-58.

226. M.A. Rahman, Discussion, “An Analysis of the Harmonic Impedance of Saturated Synchronous Machines" by G.R. Slemon and E.A. Ismailov, IEEE Transactions on Power Apparatus and Systems, Vol. PAS-99, No. 4, July/August, 1980, pp. 1669-69.

227. M.A. Rahman, Discussion, "Development of High Speed 2-Pole Permanent Magnet Synchronous Motor", IEEE Transactions on Power Apparatus and Systems, Vol. PAS-99, No. 6, Nov/Dec., 1980, pp. 2182-83.

228. M.A. Rahman, Discussion, "A New Method for the Study of Inter-bar Currents in Polyphase Squirrel Cage Induction Motors", by A. Bedashti and M. Poloujadoff, IEEE Transactions, Power Apparatus and Systems, Vol. PAS-98, No. 3, May/June, 1979, pp. 910-911.

229. M.A. Rahman and S.D. Gowda", "Representative Bibliography on Hysteresis Motors", Paper No. A79-071-2, Feb. 4-9, 1979, New York, IEEE Publication No. 79 CH 1417-5 PWR.

230. M.A. Rahman, Discussion, "A Simplified Approach to the Determination of Induction Machine Dynamic Response", by R. Stern and D.W. Novotny, IEEE Trans., Power Apparatus and Systems, Vol. PAS-97, No. 4, July/Aug. 1978,pp. 1439.

231. M.A. Rahman, Discussion, "Transferred Earth Potentials in Power Systems", by F. Dawalibi and D. Mukhedkar, IEEE Trans., Power Apparatus and Systems, Vol. PAS-97, No. 1, Jan./Feb. 1978, pp. 101.

232. M.A. Rahman, Discussion, "The Effect of Third Harmonic Flux Distortion on Core Losses in Thin Magnetic Steel Laminations", by J.D. Lavers, etc., IEEE Trans. Power Apparatus and Systems, Vol. PAS-96, No. 6, Nov./Dec. 1977, pp. 1862.

233. M.A. Rahman, "Magnetic Properties of Alcomax III with Dynamic Excitation", Correspondence, Proc, IEE, Vol. 122, No. 9, 1975, pp. 951-952.

234. M.A. Rahman, Discussion, "Finite Width, Finite Thickness, and Saturation Effects in Solid Rotor Induction Machines", by I. Boldea, S.A. Nasar, IEEE Trans., Power Apparatus and Systems, Vol. PAS-94, No. 5, 1975, pp. 1506-1507.

235. M.A Rahman, Discussion, "Approach to Experimental Electric Power Engineering Education", by E.T.D. Gross, etc., IEEE Transactions, Power Apparatus and Systems, Vol. PAS-91, No. 5, 1972, pp. 1779.

236. M.A. Rahman, Discussion, "Direct Measurement of Tooth Ripple Losses in Solid Poles", IEEE Transactions, Power Apparatus and Systems, Vol. PAS-90, No. 2, 1971, pp. 608-609.

237. M.A. Rahman, Discussion, "Equivalent Circuit for Single Phase Induction and Hysteresis Motors", IEEE Transactions, Power Apparatus and Systems, Vol. PAS-90, No. 1, 1971, pp. 228.

238. M.A. Rahman, Discussion, “Analytical Models of Saturated Synchronous Machine”, IEEE Transactions, Power Apparatus and Systems, Vol.PAS-90, No. 1 1971, pp. 417.

239. M.A. Rahman, Discussion, “Analysis of Hysteresis Machine, Part I”, IEEE Transactions, Power Apparatus and Systems, Vol. PAS-88, No.4, April 1969, pp.483.

Refereed Full Conference Papers

240. M. A. Rahman and S. F. Rabbi “, Design and Performance Analysis of a Self-Started Radial Flux Hysteresis Interior Permanent Magnet Motor”, Proceedings of the IEEE Intermag- 2017 Conference, April 24-28, 2017, Dublin, Ireland.

241. M. A. Masrob, M. A. Rahman ” Design of a simplified fuzzy logic power system stabilizer for dynamic reduction of a power system mode”, in IET International Conference on Resilience of Transmission and Distribution Networks (RTDN 2017), Birmingham, UK, 26-28 Sept. 2017.

242. A. Aktaibi, M.A. Masrob, G.H. George, M.A. Rahman “Resilience of Power Transmission System Protection Using a New d-q Wavelet Hybrid Technique”, in IET International Conference on Resilience of Transmission and Distribution Networks (RTDN 2017), Birmingham, UK, 26-28 September, 2017.

243. F. Lftisi, and M.A. Rahman, “A Novel Finite Element controller map for intelligent control of induction motor ”, the 8th IEEE Annual Information Technology, Electronics and Mobile Communication Conference. Vancouver, 3 – 5 October, 2017, pp. 18-24.

244. F. Lftisi, G.H. George and M.A. Rahman, “an application of a Finite Element controller map for speed control for saturated induction motor ”, Industrial Electronics Society , IECON 2017 - 43rd Annual Conference of the IEEE, 2017, pp. 8756 - 8762.

245. F. Lftisi, G. H. George, C. B. Butt, A. Aktaibi and M. A. Rahman, “Grid search optimization techniques for the indirect vector-controlled induction motor drives”, 2017 IEEE Electrical Power and Energy Conference (EPEC), Saskatoon, Saskatchewan, from October 22-25, 2017, pp. 1-6.

246. F. Lftisi, ; G. H. George and M.A. Rahman, “Implementing fuzzy logic controller techniques for indirect vector control induction motor drives”, the 8th IEEE Annual Information Technology, Electronics and Mobile Communication Conference. Vancouver, 3-5 October, 2017, pp. 6-11.

247. D. Lin, P. Zhou and M.A. Rahman, “ A New Anisotropic Vector Hysteresis Model based on Play Hysterons (Invited)”, Proceedings of the IEEE Intermag- 2017 Conference, April 24-28, 2017, Dublin, Ireland.

248. M. A. Masrob, M. A. Rahman and G. H. George, “Design of a Neural Network Based Power System Stabilizer in Reduced Order Power System”, Proceedings of the IEEE Canadian Conference on Electrical and Computer Engineering (CCECE-2017), Windsor, ON Canada, April 30- May 4, 2017, pp. 1-6.

249. S.F. Rabbi, M.A. Rahman and M. Constantine, “ A Novel Sensorless IPM Motor Drive for Electric Submersible Pumps” , Proceedings of the IEEE IEMDC-2017 Conference , May 21-24, 2017, Miami, Florida, USA.

250. M.A. Masrob, M. A. Rahman, G.H. George and C.B. Butt, “Design of a Simple Neural Network Stabilizer for Synchronous Machine of Power System via Matlab/Simulink”, Proceedings of the IEEE IEMDC-2017 Conference, May 21-24, 2017, Miami, Florida, USA.

251. M.A. Rahman, “Sensorless IPM Electric Submersible Pump Drive for Offshore Oil Production”, IEEE PES General Meeting, Panel paper, July 18, 2017, Chicago, IL, USA.

252. S.F Rabbi and M.A. Rahman, “ Detection of Torsional Oscillation in Line-Start IPM Motor Drives using Motor Current Signature Analysis”, Proceedings of IEEE –ICECE 2016, December 20-22, 2016, Dhaka, Bangladesh.

253. S. F. Rabbi and M. A. Rahman, ”Equivalent Circuit Modeling of a Hysteresis Interior Permanent Magnet (IPM) Motor for Electric Submersible Pumps (ESPs) ” Proceedings of MMM / INTERMAG 2016 Joint Conference, pp 1-4, January 11-15 2016, San Diego, CA, USA

254. M. A. Rahman, S. F. Rabbi, “Soft Starting of Electric Submersible Pump Drives for Harsh Environment in Oceans”, IEEE PES General Meeting, Panel paper, July 19, 2016, Boston, MA, USA.

255. M. A. Masrob, M. A. Rahman, C. B. Butt and G. H. George, “ Design of a Novel Multi-Input Fuzzy Logic Power Stabilizer for a Reduced order Power System” Proceedings of the 2016 IEEE PES Asia-Pacific Power and Energy Conference, Xi’an, China, October 25-28, 2016, pp 2611-2616.

256. S.F. Rabbi, M.L. Little and M.A. Rahman, “ A Novel Technique for Detection and Analysis of Hunting in Line –Start IPM Motors using Stator Current Signatures”, IEEE –IAS 2016 ,Annual Meeting and Conference, Portland, Oregon, USA, October 2-6, 2016.

257. A. Aktaibi, G.H. George and M.A. Rahman, “A High-Speed Digital Current Protection for Transmission Lines in Smart Grid”, IEEE-EPEC 2016 Conference, Ottawa, ON, Canada, October 12-14, 2016.

258. F. Lftisi, G.H. George, C.B. Butt and M.A. Rahman, “Artificial Neural Network Based Speed Controller for Induction Motors”, IEEE-IECON 2016 Conference, Florence, Italy, October 24-27, 2016.

259. F. Lftisi, G. H. George, C. B. Butt and M. A. Rahman," A Fast Fuzzy Logic Controller Based on Vector Control for Three phase Induction Motor Drives", IEEE-NECEC 2016, Nov 10, 2016 CD-ROM Paper# 66, Pages 1-6.

260. M.A, Masrob, M. A. Rahman, C. B. Butt and G. H. George, "A Novel Technique to Design a Hybrid Procedure Power System Stabilizer for a Reduced Order Power System", IEEE- NECEC 2016, Nov 10, 2016 CD-ROM Paper# 32, Pages 1-6.

261. S. F. Rabbi, M. A. Rahman, M. M. Sarker and S. D. Butt, "Modeling and Performance Evaluation of a Hysteresis IPM Motor Drive for Electric Submersible Pumps", Proceedings of the IEEE Energy Conversion Congress and Exposition (ECCE 2015), Montreal, QC, Canada, 20-24 September 2015.

262. M. A. Masrob, M. A. Rahman, G.H. George, and B. Jeyasurya, "Development of Hybrid Procedure Controller Based on a Lead-Lag and Pole-Placement Power System Stabilizer Using a Different Linearization Approach", 2015 CIGRÉ Canada Conference, Winnipeg, Manitoba, August 31-September 2, 2015.

263. Rabbi, S.F.; Rahman, M.A., "Modeling and Control of an IPM Hysteresis Motor for submersible Pump Drive System", Proceedings of the IEEE International Electric Machines and Drives Conference (IEMDC 2015), Coeur d'Alène, Idaho USA, May 10-13, 2015.

264. Rahman, M.A., "Advances on IPM Traction Motor Drives for Passenger Cars and High Speed Railway Trains", Joint Rail Conference, ASME-IEEE-ASCE, JRC2015-5698,San Jose, CA, March 23-26, 2015.

265. Rabbi, S.F.; Rahman, M.A., "Analysis of a radial flux hysteresis IPM motor," Electrical and Computer Engineering (CCECE), 2015 IEEE 28th Canadian Conference on , vol., no., pp.7,12, 3-6 May 2015

266. Aktaibi, A.; Rabbi, S.F.; George, G.; Rahman, M.A., "Off-line signature evaluation for dqWPT hybrid technique based differential protection of power transformers," Electrical and Computer Engineering (CCECE), 2015 IEEE 28th Canadian Conference on , vol., no., pp.25,30, 3-6 May 2015

267. S. F. Rabbi, M. M. Sarker, D. G. Rideout, S. D. Butt, M. A. Rahman, "Analysis Of A Hysteresis IPM Motor Drive For Electric Submersible Pumps In Harsh Atlantic Offshore Environments", Proceedings of the 34th International Conference on Ocean, Offshore and Arctic Engineering, OMAE15, May 31- June 5, 2015, St. John's, NL, CANADA

268. Razali, A.M.; Rahman, M.A.; Rahim, N.A., "Implementation of d-q decoupling and feed-forward current controller for grid connected three phase voltage source converter," in IEEE Industry Applications Society Annual Meeting, 2014 Vancouver , BC. Canada Paper # IACC-0459 pp.1-8, Oct. 5-9, 2014. (**Prize paper**)

269. Kiyota, K.; Kakishima, T.; Chiba, A., "Cylindrical rotor design for acoustic noise and windage loss reduction in switched reluctance motor for HEV applications," Energy

Conversion Congress and Exposition (ECCE), 2014 IEEE , vol., no., pp.1814,1821, 14-18 Sept. 2014,

270. Adel Aktaibi and M. A. Rahman, “Multi-Resolution Analysis Based Data Compression for Power transformer protection”, The International Conference on Electrical Machines (ICEM 2014) September 2-5, Berlin, Germany 2014, pp.2380-2386.

271. A.M. Razali, M.A. Rahman and N.A. Rahim, "Real-time implementation of d-q control for grid connected three phase voltage source converter," Industrial Electronics Society, IEEE Industrial Electronics - 40th Annual Conference (IECON-2014) , Dallas, USA, pp.1733-1739, Oct. 29-Nov. 1, 2014, (**Prize Presentation**)

272. S. F. Rabbi and M.A. Rahman, :” Analytical Modelling of a Hysteresis Interior Permanent Magnet Motor” , The International Conference on Electrical Machines (ICEM 2014), September 2-5, Berlin, Germany 2014, pp.2612-2617.

273. Rabbi, S.F.; Rahman, M.A., "Modeling and transient performance analysis of a hysteresis IPM motor," Electrical and Computer Engineering (ICECE), 2014 International Conference on , vol., no., pp.607,610, 20-22 Dec. 2014

274. S. F. Rabbi and M. A. Rahman, “Equivalent circuit modeling of an interior permanent magnet hysteresis motor”, Proceedings of the Canadian Conference on Electrical and Computer Engineering (CCECE 2014), Toronto, Canada, May 4-7, 2014, pp.

275. S. F. Rabbi, and M. A. Rahman, “Modeling and Transient Performance Analysis of a Hysteresis IPM Motor”, Proceedings of the 23rd Annual Newfoundland Electrical and Computer Engineering Conference (NECEC 2014), St. John’s, NL, Canada, November 3, 2014, pp. 1-6.

276. Fuzi Lftisi and M. A. Rahman, “Advanced Control for Induction Motor Drives”, Proceedings of the 23nd Annual Newfoundland Electrical and Computer Engineering. Conference (NECEC 2014), St. John’s, NL, Canada, November 3, 2014.

277. M.A. Rahman, “ A Status Review of Advances in Hybrid Electric Vehicles”, Panel Paper, Paper Number 14-PESGM2606, IEEE PES Annual Meeting , Pittsburgh, PA, USA, July 30, 2014,

278. Razali, A.M.; Rahman, M.A.; Rahim, N.A., "Real-time implementation of d-q control for grid connected three phase voltage source converter," Industrial Electronics Society, IECON 2014 - 40th Annual Conference of the IEEE , vol., no., pp.1733,1739, Oct. 29 2014-Nov. 1 2014

279. M. A. Masrob, M. A. Rahman, G. George and B. Jeyasurya, “Development of Pole Placement Power System Stabilizer Using a Different Linearization Approach”, Proceedings of the 23rd Annual Newfoundland Electrical and Computer Engineering Conference (NECEC 2014), St. John’s, NL, Canada, November 3, 2014, pp. 1-4.

280. S.F. Rabbi, M.A. Rahman and S.D. Butt, " Modeling and Operation of an Interior Permanent Magnet Motor Drive For Electric Submersible Pumps", Oceans 14 MTS/IEEE, September 14-17, 2014, St. John's, NL, Canada,

281. S. F. Rabbi and M. A. Rahman, "Transient Analysis of a Line Start Hysteresis Interior Permanent Magnet Motor", Proceedings of the IEEE Energy Conversion Congress and Exposition (ECCE 2014), Pittsburgh, USA, Sep. 14-18, 2014, pp.

282. S. F. Rabbi, M. Halloran, T. LeDrew, A. Matchem and M. A. Rahman, "Modeling and V/F control of a Hysteresis Interior Permanent Magnet Motor", Proceedings of the IEEE Industry Applications Society Annual Meeting (IAS 2014), Vancouver, Canada, October 5-8, 2014, pp.

283. N. Khan, S. F. Rabbi, M. J. Hinchey and M. A. Rahman, "An Adaptive Nonlinear MPPT Controller for a Stand Alone Marine Current Energy Conversion System", Proceeding of the 39th Annual Conference of the IEEE Industrial Electronics Society (IECON 2013), Vienna, Austria, November 10-13, 2013, pp. 406-411.

284. M. Masrob, M. A. Rahman and G. George, "Enhancement of Power System Stability using a Power System Stabilizer", Proceedings of the 22nd Annual Newfoundland Electrical and Computer Engineering. Conference (NECEC 2013), St. John's, NL, Canada, November 7, 2013, pp. 1-6

285. N. Khan, S. F. Rabbi and M. J. Hinchey, "Modeling, Control and Experimental Validation of a Small Scale Variable Speed Marine Current Energy Conversion System", Proceedings of the 22nd Annual Newfoundland Electrical and Computer Engineering. Conference (NECEC 2013), St. John's, NL, Canada, November 7, 2013, pp. 1-6.

286. S. F. Rabbi and M. A. Rahman, "Determination of the Synchronization Criteria of Line Start IPM Motors," Proceedings of the IEEE International Electric Machines and Drives Conference (IEMDC 2013), Chicago, USA, May 12-15, 2013, pp.1218-1224.

287. N. Khan, S. F. Rabbi, M. J. Hinchey and M. A. Rahman, "Adaptive Back stepping Based Maximum Power Point Tracking Control for a Variable Speed Marine Current Energy Conversion System", Proceeding of the Canadian Conference on Electrical and Computer Engineering (CCECE 2013), Regina, Canada, May 5-8, 2013, pp. 1-5

288. Fuzi Lftisi and M. A. Rahman, "advanced control for induction motor drives", the 22th Annual Newfoundland Electrical and Computer Eng. Conference (NECEC 2013), IEEE, Thursday, Nov. 7, 2013.

289. Adel Aktaibi and M. A. Rahman, "Real-Time Implementation and Testing of A WPT Based Technique for Differential Protection of Synchronous Generator", 26th Canadian Conf. on Electrical and Computer Engineering. (CCECE 2013), IEEE, May 5-8, 2013.

290. Adel Aktaibi and M. A. Rahman, "d-q axis Wavelet Packet Transform hybrid technique Based Data Compression for Power transformer protection Using the

Minimum Description Length Criterion", the 22th Annual Newfoundland Electrical and Computer Eng. Conference (NECEC 2013), IEEE, Thursday, Nov. 7, 2013.

291. A.M. Razali, M. A. Rahman and N. A. Rahim, "An Analysis of Current Control Method for Grid Connected Front-end Three Phase AC-DC Converter", IEEE International Energy Conversion Congress and Exhibition for Asia/Pacific (ECCE-2013), June 3-6 2013, Melbourne, Australia, pp.

292. A.M. Razali, M. A. Rahman and N. A. Rahim, "An Analysis of Direct Power Control for Three Phase AC-DC Converter", IEEE Industry Applications Society, October 2012, Las Vegas, USA, pp.

293. M. A. Rahman, C.B. Butt, H.M. Zubayer, N.A. Rahim, H.W. Ping and M. Tadjuddin, "An Analysis of Axial Flux Brushless Dc Wheel Motor", International Magnetics Conference, INTERMAG 2012, May 7 -11, 2012, Vancouver, Canada.

294. A. Aktaibi and M.A. Rahman, "An Experimental Method for Differential Protection of 3Φ Power Transformers Using Wavelet Packet Transform (WPT)", IEEE Canadian Conference on Electrical and Computer Engineering, CCECE 2012, April 29-May 2, 2012 Montreal, Canada.

295. A. Aktaibi and M.A. Rahman, "A Novel Technique for Differential Protection of Power Transformers", 20th International Conference on Electrical Machines, ICEM 2012, September 2-5, 2012, Marseille, France.

296. S.A. Saleh; M.A. Rahman, "The analysis and development of controlled 3φ wavelet modulated AC-DC converter," Power Electronics, Drives and Energy Systems (PEDES), 2012 IEEE International Conference on , vol., no., pp.1,6, 16-19 Dec. 2012

297. M. A. S.K Khan and M.A. Rahman, "An Intelligent Controller for IPM Motor Drives", ICGST International Conference on Computer Science and Engineering (CSE-Dubai-12), July16-18, 2012, Dubai, UAE.

298. A.M. Razali and M. A. Rahman, "Virtual Grid Flux Oriented Control Method for Front0end Three Phase Boost Type Voltage Source Rectifier", IEEE Canada Conference on Electrical and Computer Engineering, (CCECE 2012), Montreal, Quebec, Canada, May 5-7 2012, pp.

299. S. A. Saleh and M.A. Rahman, "Optimized Resolution for Input-Output Control for 3-phase VS WM AC-DC Converters", 47thIEEE-IAS Annual Meeting, October7-11, 2012, Las Vegas, NV, USA.

300. Adel Aktaibi and M. A. Rahman, "A New Hybrid Technique of Control and Protection for Three Phase Power Transformers", 38th Annual Conference of the IEEE Industrial Electronics Society (IECON 2012), IEEE, October 25-28, 2012.

301. Adel Aktaibi and M. A. Rahman, "Off-Line Testing of a d-q axis WPT Based Hybrid Digital Technique for Salient Pole Synchronous Generator Differential Protection," 2012 IEEE International Conference on Electronics Design, Systems and Applications (ICEDSA 2012) IEEE, Nov. 5-6, 2012.

302. Adel Aktaibi and M. A. Rahman, “Real-Time Testing of a d-q axis WPT Based Hybrid Digital Technique for Differential Protection of Salient Pole Synchronous Generator”, the 21th Annual Newfoundland Electrical and Computer Eng. Conference (NECEC 2012), IEEE, Thu, Nov. 8, 2012.

303. Adel Aktaibi and M. A. Rahman, “A New Hybrid Digital Technique for Differential Protection of Salient Pole Synchronous Generator,” The 2012 IEEE International Conference on Power and Energy (PECON 2012) IEEE, Dec. 2-5, 2012.

304. A. Aktaibi, A.M. Razali and M. A. Rahman, “An Experimental Implementation of dq axis Wavelet Packet Transform Hybrid Technique for 3-Phase Power Transformer Protection”, IEEE Industry Applications Society, October 2012, Las Vegas, USA, pp.

305. A. Aktaibi, A.M. Razali and M. A. Rahman, “Real-Time Testing of d-q axis Wavelet Packet Transform Based Hybrid Digital Technique for Differential Protection of Salient Pole Synchronous Generator”, IEEE NECEC, St. John’s. NL, November 7, 2012, CD-ROM (5 pages).

306. M.A. Rahman, M.A. Masrur and M. N. Uddin, “Impacts of Interior Permanent Magnet Machine Technology for Electric Vehicles”, Proceedings, IEEE-International Conference on Electric Vehicles, ICEV2012, Greenville, USA, March 4-7, 2012, CD Room, 6 pages.

307. S. F. Rabbi and M. A. Rahman “Analysis of Starting and Synchronization Process for Line Start IPM Motors”, Proceedings of the IEEE International Conference on Electrical and Computer Engineering (ICECE 2012), Dhaka, Bangladesh, December 20-22, 2012, pp. 311-314.

308. S. F. Rabbi, M. Masrob and M. A. Rahman, “Determination of the Synchronization Capability of Line Start IPM Motors”, Proceedings of the 21st Annual Newfoundland Electrical and Computer Engineering Conference (NECEC 2012), St. John’s, NL, Canada, November 8, 2012.

309. M.A. Rahman, “Impacts of IPM Technology for Hybrid Electric Vehicles”, Proceedings, 7thInternational Conference and Exhibition on Ecological Vehicles and Renewable Energies “, EVER 2012, Monte Carlo, Monaco, March 22-25, 2012.

310. M. Ooshima, K. Miyashita and M.A. Rahman, “Control Circuit Topology of a Time-divided Torque and Suspension Force Control Type Bearingless Motor”, IEEE Power & Energy Society General Meeting, July 22-26, 2012, San Diego, CA, USA.

311. S.F. Rabbi and M.A. Rahman, “Dynamic Performance Analysis of Line Start Interior Permanent Magnet (IPM) Synchronous Motor for Pumping Systems”, IEEE NECEC, St. John’s. NL, November 01, 2011, CD-ROM (6 pages).

312. A. Aktaibi, D. Ghanim and M.A. Rahman, “Dynamic Simulation of a Three Phase Induction Motor Using Math lab Simulink”, IEEE NECEC, St. John’s. NL, November 01, 2011, CD-ROM (5 pages).

313. A. Aktaibi and M.A. Rahman, “Wavelet Packet Transform Algorithm Based Protection of Power Transformers”, IEEE NECEC, St. John’s. NL, November 01, 2011, CD-ROM (5 pages).

314. H.M Zubayer and M.A. Rahman, “Numerical Methods for the Analysis of Line-start Interior Permanent Magnet Synchronous Motor”, IEEE NECEC, St. John’s. NL, November 01, 2011, CD-ROM

315. A. Razzali and M.A. Rahman, “Grid Voltage Sensorless Control Method for Front-end PWM Rectifier Connected to the Voltage Source Inverter Systems “, IEEE NECEC, St. John’s. NL, November 01, 2011, CD-ROM (5 pages)

316. A. Hassan, M.H. Ahmed and M.A. Rahman, “Ad Hoc Wireless Communication based on IEEE 802.11p Performance Evaluation in a City Environment”, IEEE NECEC, St. John’s. NL, November 01, 2011, CD-ROM (5 pages)

317. M.A. Rahman, H.H. Zubayer, K. Wang, K. Kurihara, A. M. Osheiba, M.A. Jabbar and M.A. Hoque, “Single Phase Line-Start High Efficiency Interior Permanent Magnet Motors”, in Proceedings of IEEE International Electric Machines and Drives Conference (IEMDC- 2011),Niagara Falls, May 15-18, 2011, pp.19–28.

318. Khan, M.A.; Uddin, M.N.; Aziz Rahman, M., "A new loss minimization control of interior permanent magnet motor drives operating with a wavelet based speed controller," Industry Applications Society Annual Meeting (IAS), 2011 IEEE , vol., no., pp.1,8, 9-13 Oct. 2011

319. M. Ooshima and M.A. Rahman, “ Control Strategy of Magnetic Suspension of a Bearingless BLDC Motor”, in Proceedings of IEEE International Electric Machines and Drives Conference (IEMDC- 2011),Niagara Falls, May 15-18, 2011, pp.71–76.

320. M.A.S.K. Khan, M.N. Uddin and M.A. Rahman, “Real-time Performance Investigation of an Intelligent Controller based Speed Control of Induction Motor Drives”, in Proceedings of IEEE International Electric Machines and Drives Conference (IEMDC- 2011),Niagara Falls, May 15-18, 2011, pp.171–176.

321. E. Daryabeigi, H.A. Zarchi. G.R. Arab Markadeh and M.A. Rahman, “ Implementation of Emotional Controller (BELBIC) for Synchronous Reluctance Motor Drive”, in Proceedings of IEEE International Electric Machines and Drives Conference (IEMDC- 2011),Niagara Falls, May 15-18, 2011, pp.1104–1109.

322. A. H. Isfahani, S. V. Zadeh and M.A. Rahman, “Evaluation of Synchronization of Line Start Permanent Magnet Synchronous Motors”, in Proceedings of IEEE International Electric Machines and Drives Conference (IEMDC- 2011),Niagara Falls, May 15-18, 2011, pp.1362–1366.

323. A. Aktaibi and M.A. Rahman, “ A Software Design Technique for Differential Protection of Power Transformers”, in Proceedings of IEEE International Electric Machines and Drives Conference (IEMDC- 2011),Niagara Falls, May 15-18, 2011, pp.1478–1483.

324. A. Hassan, M.H. Ahmed and M.A. Rahman, " An Application of Vehicular Ad Hoc Wireless Network for Hybrid Electric Vehicle", in Proceedings of IEEE International Electric Machines and Drives Conference (IEMDC-2011),Niagara Falls, May 15-18, 2011, pp.1508–1513.

325. S. A. Saleh, H.M. Zubayer, T. Iqbal, M.A.S.K. Khan and M.A. Rahman, " Design and Performance of a Double-Layered Interior Permanent Magnet Generator", in Proceedings of IEEE International Electric Machines and Drives Conference (IEMDC-2011),Niagara Falls, May 15-18, 2011, pp.1531–1536.

326. A. M. Razzali and M.A. Rahman, " Performance Analysis of Three-Phase PWM Rectifier using Direct Power Control", in Proceedings of IEEE International Electric Machines and Drives Conference (IEMDC- 2011),Niagara Falls, May 15-18, 2011, pp.1629–1634.

327. M.A.S.K.Khan, M.N. Uddin and M.A. Rahman, "A Novel Wavelet Neural Network Based Robust Control of the Interior Permanent Magnet Motor Drives", in Proceedings of IEEE Industry Applications Society Annual Meeting, Orlando, FL, 9–13 October 2011, pp. 1-8 (CD Rom).

328. M.A.S.K. Khan, M.N. Uddin and M.A. Rahman, "A New Loss Minimization Control of the Interior Permanent Magnet Motor Drives Operating with a Wavelet Based Speed Controller", in Proceedings of IEEE Industry Applications Society Annual Meeting, Orlando, FL, 9 –13 October 2011, pp.1-8 (CD Rom).

329. C. Butt and M.A. Rahman, " Untrained Artificial Neuron Based Speed Control of Interior Permanent Magnet Motor Drives over Full Operating Speed Range",in Proceedings of IEEE Industry Applications Society Annual Meeting, Orlando, FL, 9 – 13 October 2011, pp.1-8 (CD Rom).

330. S.A. Saleh, R. Ahshan, M.A. Rahman, M.A.S. Khaizaran and B. Alsayed, " Implementing and Testing of d − q WPT-Based Digital Protection for Micro-Grid Systems", in Proceedings of IEEE Industry Applications Society Annual Meeting, Orlando, FL, 9 –13 October 2011, pp.1-8 (CD Rom).

331. S.A. Saleh and M.A. Rahman, "A New Implementation Method of Wavelet Packet Transform Differential Protection of Power Transformer " , in Proceedings of IEEE Industry Applications Society Annual Meeting, Houston, TX, 5–8 October 2010, pp.1–9.

332. S. F. Rabbi, K. Islam and M.A. Rahman," Soft Starting of a Single Phase Self-excited Induction Generator", IEEE NECEC, St. John's. NL, November 04, 2010, CD-ROM (4 pages).

333. H.M. Zubayer, K. Wang and M.A. Rahman, "Comparative Study on Line-Start Permanent Magnet Synchronous Machines with Different Rotor Structures" IEEE NECEC, St. John's. NL, November 04, 2010, CD-ROM (4 pages).

334. A.M. Razzali, M.A. Rahman and A. Aktaibi, “Simulation Study of Three Phase PWM Rectifier without Power Voltage Sensors”,IEEE NECEC, St. John’s. NL, November 04, 2010, CD-ROM (4 pages).

335. A. Hassan, M.H. Ahmed, M.A. Rahman, “Evaluation of MANET Routing Protocols for Multiple Receivers in VANET”, IEEE NECEC, St. John’s. NL, November 04, 2010, CD-ROM (4 pages).

336. Yuichi Takano, Motoki Takeno, Akira Chiba, Nobukazu Hoshi, Member, Masatsugu Takemoto, Satoshi Ogasawara, M. Azizur Rahman, “A design and analysis of a switched reluctance motor for the next generation hybrid vehicle without rare earth material”, Proceedings of IEE (Japan) International Power Electronics Conference, IPEC-2010, Sapporo, June 22-25, 2010,USB.

337. K. Wang, M.A. Rahman and J. X. Shen, “Control of High Speed PM Brushless DC Motor, in Proceedings of IEEE Industry Applications Society Annual Meeting, Houston, Texas, 5–8 October 2010, pp.1–6.

338. M.A. Rahman, “ Recent Status of IPM Traction Drives for Hybrid and Plug-in Hybrid Vehicles”- Panel paper, Proceedings of IEEE Power and Energy Society, PES-2010, St. Paul, MN, July 26-30, 2010, USB (6 Pages)

339. M. A. S.K. Khan, G.H. George and M.A. Rahman, “Intelligent Speed Controllers for IPM Induction Motor Drives”, Proceeding of IEEE Canadian Conference on Electrical and Computer Engineering, CCECE-2009, St. John’s, May 3-6,2009, pp. 833-836.

340. M.A.S.K. Khan, M.J. Hinchey and M.A. Rahman “Implementation of wavelet controller for battery storage system of hybrid electric vehicle,” in Proceedings of IEEE Industry Applications Society Annual Meeting, Houston, Texas, 4–8 October 2009, pp. 1–8.

341. M.A.S.K. Khan, S.A. Saleh and M.A. Rahman, “Generation and Harmonics in Interior Magnet Wind Generator”, Proceeding of IEEE International Electric Machines and Drives Conference, (IEMDC-2009), Miami, May 3-6, 2009, pp. 17-23.

342. S.A. Saleh and M.A. Rahman, “Performance Testing of Single Phase Voltage Source Wavelet Modulated AC-DC Converter”, Proceeding of IEEE Canadian Conference on Electrical and Computer Engineering, CCECE-2009, St. John’s, May 3-6, 2009, pp. 1049-1054. USB

343. M.A. Rahman, P. Zhou, D. Lin and M.F. Rahman, A Procedure for Measurement of Saturated Parameters of IPM Motor”, Proceedings of IEEE Power and Energy Society Conference, PES-2009, Calgary, July 26-30, 2009, USB

344. M.A. Rahman and M.A. Masrur, “Advances on IPM Technology for Hybrid Electric Vehicles”, Proceedings of IEEE Vehicle Power and Propulsion Conference (VPPC-2009), Detroit, September 7-9, 2009, USB.

345. J. Asama, A. Chiba , T. Oiwa, T. Fukao and M.A. Rahman, “A Design Consideration of a Bearingless Disk Motor for Artificial Hearts”, Proceedings of IEEE

Energy Conversion Congress and Expositions, ECCE-2009, San Jose, September 21-24, 2009, USB

346. S.A. Saleh and M.A. Rahman, “The Development and Development of a Scalar Double-Loop Controller for 3 phase WM Inverter-fed IPM Motor”, Proceedings of IEEE Power and Energy Society Conference, PES-2009, Calgary, July 26-30, 2009, USB

347. M.A. Rahman, “Advances of Interior Permanent Magnet (IPM) Wind Generators-Invited paper”, Proceeding of International Conference on Electric Machines and Systems, ICEMS-2008, Wuhan, China, October 17-20, 2008, CD-ROM (7 pages).

348. S.A. Saleh and M.A. Rahman, “Performance Testing of a 2 Loop RLC WM Inverter-Fed Induction Motor Drive”, Proceeding of 10th IEEE International Conference on Control, Automation , Robotics and Vision (ICARCV-2008), Hanoi, Vietnam, December 17-20, 2008, Paper # 978-1-4244-2287.

349. M.A.S.K. Khan and M.A. Rahman, “Diagnostic and Protection of Inverter Faults in IPM Motor Drives using Wavelet Transform”, Proceeding of IEEE International Conference on Electrical and Computer Engineering, ICECE-2008, Dhaka, December 20-22, 2008, pp. 176-180.

350. M.A. Rahman, “Advances on IPM Technology for Hybrid Cars and Impact in Developing Countries”, Proceeding of IEEE International Conference on Electrical and Computer Engineering, ICECE-2008, Dhaka, December 20-22, 2008, pp.189-194.

351. M.A.S.K. Khan and M.A. Rahman, “Implementation of Adaptive Intelligent Controller for Benchmark Thermal System”, Proceeding of IEEE Industrial Electronics Society Annual Meeting (IECON-2008),Orlando, November 10-13, 2008, pp. 2629-2635.

352. M.A.S.K. Khan and M.A. Rahman, “An Adaptive Self-tuned Wavelet Controller for IPM Motor Drives”, Proceeding of IEEE Industry Applications Society Annual Meeting (IAS-2008),Edmonton, October 5-9, 2008, CD-ROM (8 pages).

353. S.A. Saleh and M.A. Rahman, “On the Analysis and the Development of a Resolution-Level Vector-Controlled WM Inverter-Fed IPM Motor Drive”, Proceeding of IEEE Industry Applications Society Annual Meeting (IAS-2008),Edmonton, October 5-9, 2008, CD-ROM(8 pages).

354. M.A.S.K. Khan and M.A. Rahman, “An Adaptive Wavelet Controller for IPM Motor Drives”, Proceeding of IEEE Power and Energy Society Annual Meeting (PES-Panel),Pittsburgh, July 20-24, 2008, CD–ROM (8 pages).

355. M. Amanda, N. Tanabe, J. Asama, A, Chiba, S. Iwasaki, M. Takemoto, T. Fukao and M.A. Rahman, “Suspension Characteristics of a Consequent –Pole Bearingless Motor with Wide Magnetic Air gaps”, Proceeding of IEEE Power and Energy Society Annual Meeting (PES-Panel), Pittsburgh, July 20-24, 2008, CD -ROM(6 pages).

356. S.A. Saleh and M.A. Rahman, “Development and Testing of Double-Loop Resolution Level Controller for a 3-Phase WM Inverter-fed Induction Motor”, Proceeding of IEEE Power and Energy Society Annual Meeting (PES-Panel), Pittsburgh, July 20-24, 2008, CD –ROM(6 pages).

357. M. M. Rashid, N.A. Rahim, M.A. Hussain and M.A. Rahman, “Development and Testing of Hybrid Fuzzy Logic Controller for Car Suspension System Using Magneto-Rheological Damper”, Proceeding of Proceeding of IEEE Industry Applications Society Annual Meeting (IAS-2008),Edmonton, October 5-9, 2008, CD-ROM(8 pages).

358. M.A.S.K. Khan and M.A. Rahman, “A new Wavelet Based Diagnosis and Protection of Faults in Induction Motor Drives”, Proceeding of IEEE Power Electronics Specialist Conference (PESC-2008),Rhodes Island, Greece, June 15-19, 2008, pp. 1536-1541.

359. O. Ozgonenel, M.A.S.K. Khan and M.A. Rahman, “Wavelet Power Based Transformer Internal Fault Protection Algorithm”, Proceeding of IET International Conference on Developments in Power System Protection, Glasgow, March 17-20, 2008, pp. 280-284.

360. M.A.S.K. Khan and M.A. Rahman, “Real-Time Implementation of a Wavelet-Based Speed Controller for Induction Motor Drives”, Proceeding of IEEE Canadian Conference on Electrical and Computer Engineering, CCECE-2007, Vancouver, April 23-25, 2007, pp. 546-549.

361. M.A. Rahman, “High Efficiency IPM Motor Drives for Hybrid Electric Vehicles”, Proceeding of IEEE Canadian Conference on Electrical and Computer Engineering, CCECE-2007, Vancouver, April 23-25, 2007, pp.252-255.

362. S.A. Saleh and M.A. Rahman, “Real-Time Performance Testing of a 3 Phase VS WM Inverter-Fed IPM Motor”, Proceeding of IEEE 38th Power Electronics Specialist Conference t Orlando, Florida, USA, June 17-21, 2007, pp. CD-ROM (8 pages).

363. S.A. Saleh and M.A. Rahman, “Real-Time Testing of an Intelligent Controller for a WP Inverter-fed Single Phase Capacitor Induction Motor”, Proceeding of IEEE Power Engineering Society Annual Meeting, Tampa, June 24-28, 2007, Panel Session, CD-ROM (8 pages).

364. M.A.S.K. Khan and M.A. Rahman, “Neuro-WPT Based Diagnosis and Protection of Three-Phase of IPM Motor Drives”, Proceeding of IEEE Power Engineering Society Annual Meeting, Tampa, June 24-28, 2007, Panel Session, CD-ROM(8 pages).

365. S.A. Saleh and M.A. Rahman, “Real Time Performance Testing for a 3 phase VS-WM Inverter-fed Induction Motor”, Proceeding of the European Power Electronics (EPE) Conference, Aalborg, Denmark, Sept. 2-5, 2007, CD-ROM(8 pages).

366. M.A.S.K. Khan, O. Ozgonenel and M.A. Rahman, “Diagnosis and Protection of Stator Faults in Synchronous Generators using Wavelet Transform”, Wavelet Transform Based Protection of Stator Faults in Synchronous Generators”, Proceeding of IEEE-IEMDC, Antalaya, Turkey, May 7-10, 2007, pp.184-189 .

367. M.A.S.K. Khan and M.A. Rahman, “Wavelet Neural Network-Based Diagnosis and Protection of Inverter Faults in Induction Motor Drives”, IEEE NECEC, St. John’s. NL, November 08, 2007, CD-ROM(4 pages).

368. M.A.S.K. Khan and M.A. Rahman, “Real Time Implementation of a New Wavelet Controller for IPM Motor Drives”, Proceedings of IEEE Industry Applications Society Annual Meeting, New Orleans, September 23-27, 2007, pp 1280-1287.

369. M.A.S.K. Khan and M.A. Rahman, “Real Time Implementation of IPM Motor Protection using Artificial Neural Network”, Proceedings of IEEE Industry Applications Society Annual Meeting, Taipei, Taiwan, November 5-8, 2007, pp. 1021-1026.

370. S.A. Saleh and M.A. Rahman, “Testing the Performance of a 3-phase VS WM Inverter in a PM Generator-Based Wind Turbine System”, IEEE NECEC, St. John’s. NL, November 08, 2007, CD-ROM(4 pages).

371. M.A.S.K. Khan and M.A. Rahman, “Applications of Wavelet Packet Transform for Identification of Chaotic Signals in Current-Programmed DC/DC Boost Converters”, Proceedings of International Conference in Electrical and Computer Engineering, ICECE-2006, Dhaka, December 19-21, 2006, pp. 489-492.

372. M.A.S.K. Khan and M.A. Rahman, “Discrete Wavelet Transform-Based Detection of Disturbances in Induction Motors”, Proceedings of International Conference in Electrical and Computer Engineering, ICECE-2006, Dhaka, December 19-21, 2006, pp. 462- 465.

373. M.J. Hossain, M.A. Hoque, M.M. Ali and M.A. Rahman, “Design and Implementation of a Simplified Fuzzy Logic IPMSM Drive”, Proceedings of International Conference in Electrical and Computer Engineering, ICECE-2006, Dhaka, December 19-21, 2006, pp. 437- 440.

374. M.J. Hossain, M.A. Hoque, M.M. Ali and M.A. Rahman, “Fuzzy Logic Based Control for Induction Motor Drive with the Consideration of Core”, Proceedings of International Conference in Electrical and Computer Engineering, ICECE-2006, Dhaka, December 19-21, 2006, pp. 433- 436.

375. M.A.S.K. Khan and M.A. Rahman, “Neuro-WPT Based Diagnosis and Protection of Three Phase IPM Motors”, Proc. International Conference on Industrial Technology, ICIT-2006, Mumbai, India, December 15-17, 2006, CD ROM(8 pages).

376. M.A.S.K. Khan and M.A. Rahman, “Wavelet Transform Based Diagnosis and Protection of IPM Generators”, Proc. of International Conference of Electrical Machines and Systems, ICEMS-2006, Nagasaki, Japan, November 20-23, 2006, CD ROM(8 pages).

377. O. Ozgonenel, E. Arisoy, M.A.S.K. Khan and M.A. Rahman, “A Wavelet Power Based Algorithm for Synchronous Generator Protection”, Proceeding of IEEE Power Engineering Society Annual Meeting, Montreal, Canada, June 18-22, 2006, CD-ROM(8 pages).

378. S.A. Saleh and M.A. Rahman, " Experimental Testing of a Novel Control for Inverter-fed Three-Phase Induction Motor", Proceeding of IEEE Power Engineering Society Annual Meeting, Montreal, Canada, June 18-22, 2006, CD-ROM(8 pages).

379. H.A. Darwish and M.A. Rahman, "Performance of HVDC Converter Protection during Internal Faults", Proceeding of IEEE Power Engineering Society Annual Meeting, Montreal, Canada, June 18-22, 2006, CD-ROM(8 pages).

380. M.A.S.K. Khan, T.S. Radwan and M.A. Rahman, "Wavelet Based Diagnosis and Protection of Three-Phase Induction Motor Fed From Sinusoidal PWM Voltage Source Inverter", Proceeding of 3rd IEE Conference on Power Electronics and Motor Drives, PEMD 2006, Dublin, Ireland, April 4-6, 2006, pp.226-230

381. M.A.S.K. Khan, T.S. Radwan and M.A.Rahman, "Monitoring and Diagnosis of Faults in Interior Permanent Magnet Motors using Discrete Wavelet Transform", Proceeding of IEEE Power Electronics Specialist Conference, PESC'2006, Jeju Island, Korea, June 18-22, 2006, pp.2529-2533.

382. S.A. Saleh and M.A. Rahman, "Development and Experimental Testing of a Single-phase B-spline based Inverter", Proceedings of IEEE International Symposium on Industrial Electronics, ISIE'2006, Montreal, July 9-13, 2006, pp. 2122-2127.

383. S.A. Saleh, C. R. Moloney and M.A. Rahman, "Developing a Non-dyadic MRAS for Switching DC-AC Inverters", Proceedings of IEEE 12th Digital Signal Processing Workshop, Grand Teton National Park, Wyoming, USA, Sept. 24-27, 2006, pp.544-549.

384. M.A.S.K. Khan, T.S. Radwan and M.A.Rahman, "Diagnosis and Protection of IPM Motor using Wavelet Packet Transform", Proceedings of IEEE Industry Applications Society Annual Meeting, Tampa, October 08-12, 2006, 1970-1977.

385. A. Chiba, T. Fukao and M.A.Rahman, "Vibration Suppression of a Flexible Shaft with a Simplified Bearingless Induction Motor Drive", Proceedings of IEEE Industry Applications Society Annual Meeting, Tampa, October 08-12, 2006, CD-ROM(8 pages).

386. S.A. Saleh and M.A. Rahman, "Real-Time Implementation and Testing of a Wavelet-Controlled Dynamic Voltage Restorer System", Proceedings of IEEE Industry Applications Society Annual Meeting, Tampa, October 08-12, 2006, CD-ROM(8 pages).

387. Akira Chiba, T. Ohno, Tadashi Fukao and M.A. Rahman, "Machine Parameter Consideration in High Speed PM Drive for Quick Speed Acceleration", Proceedings of IEEE Industry Applications Society Annual Meeting, Tampa, October 08-12, 2006, CD-ROM(8 pages).

388. R.M. Milasi, Caro Lucas, B.N. Arrabi, T.S. Radwan and M.A. Rahman, " Implementation of Emotional Controller for Interior Permanent Magnet Synchronous Motor Drive", Proceedings of IEEE Industry Applications Society Annual Meeting, Tampa, October 08-12, 2006, CD-ROM(8 pages).

389. C.A. Butt and M.A. Rahman, “Intelligent Speed Control of Interior Permanent Magnet Motor Drives”, Proceedings of the IEEE Industrial Electronics Society Annual Meeting, IECON-2006, Paris, Nov. 6-10, 2006, CD-ROM(8 pages).

390. S.A. Saleh and M.A.Rahman, “Testing of Wavelet Packet Transform-based Differential Protection for a Resistance-Grounded Three-Phase Transformers”, IEEE Industry Applications Society International Conference 40th Annual Meeting, Hong Kong, October 3-6, 2005, pp.852-859.

391. T. Hiromi, T. Katou, A. Chiba, M.A. Rahman and T. Fukao, “A Novel Magnetic Suspension Force Compensation in a Bearingless Induction Motor with a Squirrel Cage Rotor”, IEEE Industry Applications Society International Conference 40th Annual Meeting, Hong Kong, October 3-6, 2005, pp.1561-1566.

392. S.A. Saleh and M.A. Rahman, “Discrete Time-Based Model of the Sinusoidal Pulse Width Modulation Technique”, Proceedings, IEEE International Conference on Industrial Electronics, IECON’2005, Raleigh, November 7-10, 2005, pp. 1082-1087.

393. S.A. Saleh and M.A. Rahman, “Testing a Three-Phase Voltage Source Inverter with Cardinal B-Spline Carrier Signals”, Proc. IEEE-NECEC 2005, St. John’s, Nov. 8, 2005, CD ROM(4 pages).

394. M.A.S. Khan, T.S. Radwan and M.A. Rahman, “Monitoring and Diagnosis of the Interior Permanent Magnet Motor using Discrete Wavelet Transform”, Proc. IEEE-NECEC 2005, St. John’s, Nov. 8, 2005, CD ROM(4 pages).

395. M.A.S.K Khan and M.A. Rahman, “Discrete Wavelet Transform Based Detection and Classification of Disturbances in Three-Phase Induction Motors”, Proc. IEEE-NECEC 2005, St. John’s, Nov. 8, 2005, CD ROM(4 pages).

396. C. Butt and M.A. Rahman, “Intelligent Speed Control of Interior Permanent Magnet Motor Drives”, Proc. IEEE-NECEC 2005, St. John’s, Nov. 8, 2005, CD ROM(4 pages).

397. T.S. Radwan and M.A.Rahman, “An Analysis and Control of Uninterruptible Power Supply for Critical Loads”, International Power Electronics Conference, IPEC-2005, Niigata, Japan, April 4-8, 2005, pp.2248-2254.

398. A. Chiba, S. Ito, K. Tungpimolrut, M.A. Rahman, T. Fukao and M. Yishida, “Test Results of a SRM Made of Layered Block of Heat-Treated Amorphous Alloys”, IEEE Industry Applications Society International Conference 40th Annual Meeting, Hong Kong, October 3-6, 2005, pp.2698-2703.

399. S.A. Saleh, M. A. Khan and M.A. Rahman, “Application of a Wavelet-Based MRA for Diagnosing Disturbances in a Three-Phase Induction Motor”, Proc. IEEE 5th International Symposium on Diagnostics for Electric Machines, Power Electronics and Drives, SDEMPED-2005, Vienna, Austria, September 6-8, 2005, CD-ROM(8 pages).

400. T.S. Radwan, M.M. Gouda and M.A.Rahman, “Adaptive Neuro-Fuzzy Speed Tracking Controller for Induction Motor Drives”, International Power Electronics Conference, IPEC-2005, Niigata, Japan, April 4-8, 2005, pp.845-852.

401. M. Sakagami, A. Chiba, M. Ooshima, T. Fukao and M.A.Rahman, “A Novel Rotor Structure for Buried Type IPM Bearingless Motors”, International Power Electronics Conference, IPEC-2005, Niigata, Japan, April 4-8, 2005, pp.1051-1057.

402. M.N. Uddin, T.S. Radwan and M.A.Rahman, “A Cost Effective 4-Switch 3-Phase Inverter Fed Induction Motor Drive”, International Power Electronics Conference, IPEC-2005, Niigata, Japan, April 4-8, 2005, pp.617-622.

403. Daigo Akamatsu, Akira Chiba, Tadashi Fukao and M.A. Rahman, “A Novel Rotor Resistance Identification for Vector Controlled Bearingless induction Motors”, IEEE International Electric Machines and Drives Conference, IEMDC-2005, San Antonio, Texas, May 15-18, 2005, CD-ROM(8 pages).

404. M.A.Rahman, Invited Paper on “Modern Interior Permanent Magnet Motor- Design, Development, Control and Applications”, 6th International Conference on Electrical Rotating Machines”, ELROMA-2004, New Delhi, India, February 4-5, 2004, CD-ROM(8 pages).

405. S.A. Saleh and M.A. Rahman, “Innovative Power System Transient Disturbances Detection and Classification Using Wavelet Analysis”, Accepted for IEEE International Conference on Electrical and Computer Engineering, Dhaka, December 28- 30, 2004, CD-ROM(6 pages).

406. M.N. Uddin, T.S. Radwan and M.A. Rahman, “Cost Effective 4-Switch 3-Phase Inverter Fed PM Motor Drive”, Accepted for IEEE International Conference on Electrical and Computer Engineering, Dhaka, December 28- 30, 2004, CD-ROM(6 pages).

407. R. Dutta, M.F. Rahman and M.A. Rahman, “An IPM Machine with Segmented Magnet Rotor for Integrated Starter Alternator”, Accepted for IEEE International Conference on Electrical and Computer Engineering, Dhaka, December 28- 30, 2004, CD-ROM(6 pages).

408. M. Ooshima, M. Sakagami, A. Chiba, M.A. Rahman and T. Fukao, “An Identification Method of Suspension Force and Magnetic Unbalance Pull Force Parameters in Buried-Type IPM Bearingless Motors”, IEEE Power Engineering Society Panel Session on Super High Speed Drive, Denver, June 7-10, 2004, CD-ROM(6 pages).

409. M.A. Rahman, A. Chiba, and T. Fukao, “Super High Speed Electrical Machines-A Summary”, IEEE Power Engineering Society Panel Session on Super High Speed Drive, Denver, June 7-10, 2004, CD-ROM(8 pages).

410. B. Karanayil, M.F. Rahman, G. Grantham and M.A. Rahman, “On-line Parameter Identification using Artificial Neural Networks for Vector Controlled Induction Motor

Drive", Accepted for IEEE International Conference on Electrical and Computer Engineering, Dhaka, December 28- 30, 2004, CD-ROM(8 pages).

411. S.A. Saleh and M.A. Rahman, "Real-Time Testing of WPT-Based Protection Algorithm for Three-Phase Power Transformers", IEEE Industry Applications Society International Conference and Annual Meeting, Seattle, October 4-7, 2004, pp.2430-36.

412. T.S. Radwan, E.M. Rashad, M.N. Uddin and M.A. Rahman, "Fuzzy Logic Based Controller for Synchronous Reluctance Motor", IEEE Canadian Conference on Electrical and Computer Engineering, Niagara Falls, May 2-5, 2004, CD-ROM(8 pages).

413. T.S. Radwan, M.N. Uddin and M.A. Rahman, "Performance Analysis of a 4-Switch, 3-Phase Inverter Based Cost Effective IPM Motor Drive ", IEEE Canadian Conference on Electrical and Computer Engineering, Niagara Falls, May 2-5, 2004, CD-ROM(8 pages).

414. T.S. Radwan, M.N. Uddin and M.A. Rahman, "A New and Simple Structure of Fuzzy Logic Based Indirect Field Oriented Control of Induction Motor Drive", IEEE Power Electronics Specialist Conference, Aachen, Germany, June 22-24, 2004, pp.3290-3294

415. S.A. Saleh and M.A. Rahman, "Wavelet Based Dynamic Voltage Restorer for Power Quality Improvement", IEEE Power Electronics Specialist Conference, Aachen, Germany, June 22-24, 2004, pp. 3152-3156.

416. M.N. Uddin, T.S. Radwan and M.A. Rahman, "Fuzzy Logic Based Cost Effective Induction Motor Drives", International Conference on Electrical Machines, Krakow, Poland, September 5-8, 2004, CD-ROM(8 pages).

417. C.A. Butt and M.A. Rahman, "Limitations of Simplified Fuzzy Logic Controller for IPM Motor Drive", IEEE Industry Applications Society International Conference and Annual Meeting, Seattle, October 4-7, 2004, pp.1891-1898.

418. M.A. Rahman and M.N. Uddin, "Performance Analysis of a Four-Switch 3-phase Inverter Fed IM Motor Drives", Large Engineering Systems Conference on Power Engineering, LESCOPE- 2004, Halifax, N.S., July 29-30, 2004, CD-ROM(8 pages).

419. E.M. Rashad, M.A. Rahman and T. S. Radwan "A Maximum Torque Per Ampere Vector Control Strategy for Synchronous Reluctance Motors, Considering Saturation and Iron Losses", IEEE Industry Applications Society International Conference and Annual Meeting, Seattle, October 4-7, 2004, pp.2411-2417.

420. T.S. Radwan, M.N. Uddin and M.A. Rahman, "Fuzzy Logic Controller Based Cost Effective 4-Switch, 3-Phase Inverter Fed IPM Motor Drive System", IEEE Industry Applications Society International Conference and Annual Meeting, Seattle, October 4-7, 2004, pp.1866-1873.

421. E.M. Rashad, T.S. Radwan and M.A. Rahman, "Starting and Vector Control of Series Connected Wound-Rotor Induction Motor in Super Synchronous Mode", IEEE

Industry Applications Society International Conference and Annual Meeting, Seattle, October 7-7, 2004, pp.32-39.

422. S. Saleh and M.A. Rahman, “Wavelet Controlled Single Phase DC-AC Inverter”, IEEE-NECEC 2004, St. John’s, Oct. 12, 2004, CD-ROM(4 pages).

423. C.A. Butt, M.A. Hoque and M.A. Rahman, "Simplified Fuzzy Logic Based MTPA Speed Control of IPMSM Drive”, IEEE Industry Applications Society International Conference and Annual Meeting, Salt Lake City, October 12-17, 2003, pp. 499-506.

424. K. Kurihara and M.A. Rahman, “High Efficiency Line-Start Interior Permanent Synchronous Motors”, IEEE Industry Applications Society International Conference and Annual Meeting, Salt Lake City, October 12-17, 2003, pp.1954-1961.

425. M.N. Uddin, M.A. Abido and M.A. Rahman, “Real-Time Performance Evaluation of a Genetic Algorithm Based Fuzzy Logic Controller for IPMSM Drives”, IEEE Industry Applications Society International Conference and Annual Meeting, Salt Lake City, October 12-17, 2003, pp.731-737.

426. M.A. Rahman, Invited Paper on "Design, Analysis, Development and Applications of Modern IPM Motor Drives", Middle Eastern Power Conference, MEPCON’-03, Shebin El-kom, Egypt, December 16-18, 2003, CD-ROM(8 pages).

427. S.A.M. Saleh and M.A. Rahman, “Wavelet based Diagnostics and Protection of Power Transformers”, Proc. IEEE 4th International Symposium on Diagnostics for Electric Machines, Power Electronics and Drives, SDEMPED-2003, Atlanta, Georgia, August 24-26, 2003, pp.136-141.

428. M. Ooshima, K. Yamashita, A. Chiba, M.A. Rahman, T. Fukao, “An Improved Control of Buried-type Permanent Magnet Bearingless Motors Considering Magnetic Saturation and Magnetic Pull Variation”, Proc. 4th IEEE International Electric Machines and Drives Conference, IEMDC-2003, Madison, WI, June 1-4, 2003, pp. 1055-1061.

429. M.A. Abido, M.N. Uddin and M.A. Rahman, “A New Fuzzy Logic Based IPM Synchronous Motor Drive”, Proc. 4th IEEE International Electric Machines and Drives Conference, IEMDC-2003, Madison, WI, June 1-4, 2003, pp. 1795-1801.

430. M.A. Rahman, “A Novel Genetic Algorithm based Fuzzy Logic Controller for IPM Synchronous Motor Drive”, International Symposium on Industrial Electronics ISIE2003, Rio de Janeiro, June 9-13, 2003, CD-ROM(8 pages).

431. R. Qin and M.A. Rahman, “Magnetic Equivalent Circuit of PM Hysteresis Synchronous Motors”, IEEE International Conference on Magnetics INTERMAG-2003, Boston, March 31-April 03, 2003, Paper # GQ-05, CD-ROM(4 pages).

432. S. Saleh and M.A. Rahman, “Off-line Testing of a Wavelet Packet-Based Algorithm for Discriminating Inrush Current in Three-Phase Power Transformers”, LESCOPE-03 Proceedings, Montreal, May 2003, pp. 36-41.

433. M. N. Uddin, M.A. Rahman and M. A. Abido, "An Artificial Neural Network for On-line Tuning of Genetic Algorithm Based PI Controller for Interior Permanent Magnet Synchronous Motor Drive", Proc. of IEEE/IEJ-IAS Power Conversion Conference PCC-2002, Osaka, Japan, April 2-5, 2002, Vol. 1, pp.154-160

434. M. N. Uddin, M. A. Abido and M. A. Rahman, "Real-Time Implementation of Genetic Algorithm based Fuzzy logic Controller for Interior Permanent Magnet Motor Drive", Proc. of 2nd IEEE-International Conference on Electrical and Computer Engineering ICECE-2002, Dhaka, December 26-28, 2002, pp.4-7.

435. N. Uddin, C. Butt, M.A. Rahman and M.A. Abido, "Laboratory Implementation of an Artificial Neural Network for Online Tuning of a Genetic Algorithm based Controller for IPMSM Drive", Proc. Electrics–2002, Montreal, August 19-21, 2002, CD-ROM(8 pages).

436. M.A. Hoque, C. Butt and M.A. Rahman, "A Novel Approach for MTPA Speed Control of IPMSM Drive", Proc. of 2nd IEEE-International Conference on Electrical and Computer Engineering ICECE-2002, Dhaka, December 26-28, 2002, pp.336-339.

437. M.A. Rahman, M.A. Hoque, C. Butt, M.N. Uddin and M.A. Abido, "Testing of Genetic-PI based Controller for IPMSM Drive", Proc. of IEEE International Conference on Industrial Technology ICIT'02, Bangkok, December11-14, 2002, Vol. 1, pp.119-124.

438. M.S.A. Zilany, M.K. Hasan, M.R. Khan, M.A. Rahman, "Wavelet Enhancement using Fourth Order Simulant", Proc. of 3rd International Symposium on Communication Systems Networks and Digital Signal Processing, Staffordshire, UK, July 15-17, 2002, pp.387-390.

439. M.R. Huq, M.I.H. Bhuiyan, M.M. Rahman, M. Ahmed, M.K. Hasan and M.A. Rahman, " Image Compression at Variable BIT Rates with Neural Network Using Dynamical Construction Algorithm", Proc. of IEEE International Conference on Signal Processing ICSP'02, Beijing, August 26-30, 2002, pp.687-690.

440. K. Kurihara and M.A. Rahman, "Transient Performances Analysis of Permanent Magnet Hysteresis Synchronous Motor", IEEE- IAS 37th Conference Record, Pittsburgh, Oct. 13-18, 2002, Vol.1, pp 199-204.

441. M.N. Uddin, M.A. Abido and M.A. Rahman, "Development and Implementation of a Hybrid Intelligent Controller for Interior Permanent Magnet Synchronous Motor Drive", IEEE- IAS 37th Conference Record, Pittsburgh, Oct. 13-18, 2002, Vol.3, pp 1439-1446.

442. S.A. Saleh and M.A. Rahman, "A Wavelet-Controlled Dynamic Voltage Restorer for Power Quality Applications", IEEE-NECEC, November 13, 2002, CD-ROM(4 pages).

443. M.N. Uddin, M.A. Rahman and M.A. Abido, " A New Hybrid Intelligent Controller for Interior Permanent Magnet Synchronous Motor Drive", Proc. of International

Conference on Electrical Machines ICEM-2002, Brugge, Belgium, August 25-28, 2002, CD. ROM(8 pages).

444. S.A. Saleh and M.A. Rahman, “Wavelet based Protection of Power Transformer”, IEEE-NECEC, St. John’s, November 13, 2002, CD-ROM.

445. S.A. Saleh and M.A. Rahman, “Transient Model of Power Transformer Using Wavelet Filter Bank”, 5th Large Engineering Systems Conference LESCOPE ’2002, Halifax, Canada, June 25-28, 2002, CD-ROM.

446. C. Butt, M.A. Hoque and M.A. Rahman, “A Novel Approach for Maximum Torque per Ampere Control of Interior Permanent Magnet Motor Drive”, IEEE-NECEC, St. John’s, November 13, 2002, CD-ROM

447. K. Kiryu, A. Chiba, T. Fukao and M.A. Rahman, “A Radial Force Detection and Feedback Effects in Bearingless Motors”, IEEE Industry Applications Annual Conference Record, Vol.1, Sept. 30-Oct. 04, 2001, Chicago, pp.64-69.

448. Yang Yi, D.M. Vilathgamuwa and M.A. Rahman, “A New Artificial Neural Network Controller for Interior Permanent Magnet Motor Drive”, IEEE Industry Applications Annual Conference Record, Vol.1, Sept. 30-Oct. 04, 2001 Chicago, pp.945-952.

449. K.M. Rahman, B.I. Morshed, S.M. Khan, M.A. Hasan and M.A. Rahman, “Excitation Control of Synchronous Generators using Fuzzy Logic Technique”, 36th University Power Engineering Conf. UPEC 2001, Swansea, UK, Sept. 12-14, 2001. CD-ROM.

450. K.M. Rahman, M.A. Choudhury, M.R. Khan and M.A. Rahman, “Sine PWM Current Tracking Controller: A New Uniform Switching Controller for VSI Fed AC Motor Drives”, 36th University Power Engineering Conference UPEC 2001, Swansea, U.K., September 12-14, 2001, CD-ROM.

451. M.A. Abido and M.A. Rahman, “Environmental/Economic Power Dispatch Using Niched Pareto Genetic Algorithm”, IEEE/NECEC, November 2001, CD-ROM.

452. A.I. Maswood, S. Wei and M.A. Rahman, “A flexible way to generate PWM-SHE switching patterns using genetic algorithm”, IEEE Applied Power Electronics Conference, APEC -2001, Anaheim, CA, vol. 2, pp. 1130-1134.

453. M.A. Rahman, “Global Status and Trends of Power Electronics With Special Impacts in the Developing World” (Invited), Proceedings of the IEEE International Conference on Electrical and Computer Engineering, ICECE-2001, January 5-6, 2001, pp. S1-4.

454. N. Fujie, R. Yoshimatsu, A. Chiba, M.A. Rahman and T. Fukao, " A Decoupled Method of Buried Magnet Bearingless Motors Considering Magnetic Saturation", Proceedings of International Power Electronics Conference, IPEC-Tokyo 2000, April 3-8, Vol. 1, pp. 395-400.

455. M.N. Uddin and M.A. Rahman, "Digital Implementation and performance Analysis of Fuzzy Logic Algorithm for IPMSM Drive ", Proceedings of International Power Electronics Conference, IPEC-Tokyo 2000, April 3-8, Vol. 3, pp.1140-1145.

456. K. Kurihara, Y. Baba, T. Nakada, T. Kubota, M.A. Rahman and H.W.Gao, " Small High Efficiency Line-Start Permanent Magnet Synchronous Motor", Proceedings of International Power Electronics Conference, IPEC-Tokyo 2000, April 3-8, Vol.3,pp.1290-1294.

457. T.S. Radwan, A.E. Lashine and M.A. Rahman, " New Three-Phase Boost-Type Voltage Regulator with Unity Input Power Factor", Proceedings of International Power Electronics Conference, IPEC-Tokyo 2000, April 3-8, Vol. 4, pp.1824-1829.

458. K. Inagaki, A. Chiba, M.A. Rahman and T. Fukao, "Performance Characteristics of Inset-Type Permanent Magnet Bearingless Motor Drives", Proceeding of IEEE Power Engineering Society Winter Meeting, Singapore, January 23-27, 2000, CD-ROM(8 pages).

459. A.I. Maswood and M.A. Rahman, "Performance of 3-Phase Induction Motor Fed from Improved Delta PWM Voltage Source Inverter", Proceedings of IEEE Power Engineering Society Winter Meeting, Singapore, January 23-27, 2000, CD-ROM (8 pages).

460. A.I. Maswood, M.A. Rahman and T.G. Neo, "High Power High Frequency Three Phase IGBT Inverter", Proceedings of IEEE Power Engineering Winter Meeting, Singapore, January 23-27, 2000, CD-ROM(8 pages).

461. C. Kirby and M.A. Rahman, "Generator Contribution Coefficients for Pricing Transmission Services", Proceeding of IEEE Power Engineering Winter Meeting, Singapore, January 23-27, 2000, CD-ROM(8 pages).

462. D.M. Vilathgamuwa, M.A. Rahman and K.J.Tseng,"Non-linear Control of Interior Permanent Magnet Synchronous Motors", Conference Record IEEE/IAS Annual Meeting, Rome, Vol.2,Oct.8-12, 2000, pp.1115-1120.

463. A.I. Maswood, M.A. Rahman and Z.K. Yoong, "Design of a Series High Frequency Switch Mode Transformer", Proc. of IEEE Canadian Conference of Electrical and Computer Engineering, CCECE-2000, Halifax, NS, Canada, May 7-9, 2000, pp.774-780.

464. M.N. Uddin, T.S. Radwan, M.A. Rahman and G.A. George, "Fuzzy Logic Based Position Control of Permanent Magnet Synchronous Motor", Proc. IEEE Canadian Conference of Electrical and Computer Engineering, CCECE-2000,Halifax NS, Canada, May 7-9, 2000, pp. 93-98.

465. M.A. Jabbar, W.L Aye, "Computation of Forces and Torques in Electrical Machines", Proc. of IEEE Canadian Conference of Electrical and Computer Engineering, CCECE-2000,HalifaxNS, Canada, May 7-9, 2000, pp. 370-375.

466. M.N. Uddin, T.S. Radwan and M.A. Rahman, "Performances of Fuzzy Logic Based Indirect Vector Control for Induction Motor Drive, Conference Record for IEEE/IA Annual Meeting, Vol.2, Rome, Oct.8-12, 2000, pp. 1225-1231.

467. T.S. Radwan, M.N. Uddin and M.A. Rahman, "DSP-based Fuzzy Logic Implementation of Indirect Vector Controlled Induction Motor", Proceedings of

International Conference On Electric Machines , ICEM-2000, Espoo, Finland, August 28-30,2000, pp.704-708.

468. M.N. Uddin and M.A. Rahman, “Wide Speed Range Operation of Interior Permanent Magnet Synchronous Motor Incorporating the Fuzzy Logic Controller“, Proceeding of Sixth International Conference on Control, Automation, Robotics and Vision, December 5-8, 2000, Singapore, CD-ROM.

469. Yang Yi, D.M. Vilathgamuwa and M.A. Rahman, “Artificial Neural Network Based Vector Control of Interior Permanent Magnet synchronous Motor”, Proceeding of Sixth International Conference on Control, Automation, Robotics and Vision, December 5-8, 2000 Singapore, CD-ROM(6 pages).

470. M.N. Uddin, T.S. Radwan and M.A. Radwan, "Performance of Current Controllers for VSI-Fed IPMSM Drive", Proc. of IEEE/IAS Annual Meeting, Phoenix, Arizona, USA, October 3-7, 1999, pp1018-1025.

471. M.N. Uddin and M.A. Rahman, "Experimental Implementation of Fuzzy Logic Based Speed Control of an Interior Type PM Motor Drive", Proc. of Large Engineering Systems Conference, Halifax, June 20-22,1999, CD-ROM(6 pages).

472. M.N. Uddin, T.S. Radwan and M.A. Rahman, "Performance of Interior Permanent Magnet Motor Drive over Wide Speed Range", Proceedings of IEEE International Electric Machines and Drives Conference, Seattle, USA, May 9-12, 1999, pp. 546-548.

473. M.N. Uddin, M.A. Hoque and M.A. Rahman, "Adaptive ANN Based IPMSM Drive Incorporating Flux Weakening Operation", Proceedings of International Power Engineering Conference, Singapore, May 24-26, 1999, pp. 595-600.

474. M.N. Uddin and M.A. Rahman, "Fuzzy Logic Based Speed Control of IPM Synchronous Motor Drive", Proc. of IEEE Canadian Conference on Electrical and Computer Engineering, Edmonton, Canada, May 1999, pp. 1259-1264.

475. T.S. Radwan, M.N. Uddin and M.A. Rahman, "Improved Steady-State Analysis of Interior Permanent Magnet Synchronous Motor Drive", Proc. of IEEE International Electric Machines and Drives Conference, Seattle, USA, May 9-12, 1999, pp. 549-551.

476. M. Takemoto, A. Chiba, T. Fukao and M.A. Rahman," Decoupled Analysis of Bearingless Reluctance Motor", Proc. of IEEE International Electric Machines and Drives Conference, Seattle, USA, May 9-12, 1999, CD-ROM

477. S.M. Zeid, T.S. Radwan and M.A. Rahman, "Analysis and Design of Multiple Feedback Loop Control for Interior Permanent Magnet Synchronous Motor Drives", Proc of 9th, IEEE -NECEC, November, 1999, pp. 40-44.

478. S.M. Zeid, T.S. Radwan and M.A. Rahman, "Real-time Implementation of Multiple Feedback Loop Control for Permanent Magnet Synchronous Motor Drive", Proc. of IEEE Canadian Conference on Electrical and Computer Engineering, Edmonton, Canada, May 9-12, 1999., pp. 1265-1270.

479. T. Suzuki, A. Chiba, M.A. Rahman and T. Fukao, “An Air gap Flux Oriented Vector Controller for Stable Magnetic Suspension during High Torque Acceleration in Bearingless Induction Motors”, Proc. of IEEE Industry Applications Society Annual Meeting, Phoenix, Arizona, USA, October 2-7, 1999, pp. 1543-1550.

480. M.A. Rahman, "Adaptive Artificial Neural Network based Protection and Control of Power Apparatus", Proceedings International Conference on Information, Communications and Signal Processing, ICICS'99, Singapore. December 7-10, 1999,CD-ROM (6 pages).

481. M.N. Uddin, M.A. Rahman and G.H. George, "Performance of Fuzzy Logic Controller for IPMSM Drive", Proceedings of IEEE-NECEC, St. John's, Nov.12, 1999, pp. 55- 58.

482. M.N. Uddin, T.S. Radwan and M.A. Rahman, "Position and Speed Control of Permanent Magnet Synchronous Motor for Robotic Applications", Proceedings of IEEE-NECEC, St. John's, Nov.12, 1999, pp. 59-62.

483. S.L. Ho, S.Y. Yang, M.A. Rahman, H.C. Wong, "Transient Analysis of PWM Inverter-fed AC Motor Drives using Finite Element Method with coupling External Circuit Model", Proc. of IEEE International Conference on Power Electronics and Drive System, Hong Kong, July 27- 29, 1999, Vol.2, pp.591-596.

484. S.L. Ho, Yang Shiyou, Zhou Ping, , H.C. Wong and M.A. Rahman, "A Combined Finite Element-Domain Elimination Method for Minimizing Torque Ripples in Inverter-Fed Motor Drive Systems ", Proc. of IEEE COMPUMAG '99, Japan, October 25-28, 1999, pp. 92-93.

485. Yang Shiyou, N. Guang Zhenz, S.L.Ho, Jose Marcio Machado and M.A. Rahman, "Wavelet-Galerkin Method for Computations of Electromagnetic Fields - Computation of Connection Coefficients", Proc. of IEEE COMPUMAG '99, Japan, October 25-28, 1999, pp. 466-467.

486. K.M. Rahman, M. A. Choudhury and M.A. Rahman, " PC Based Real-Time Synchronized Waveform Generation for Static PWM Rectifiers", Proceedings of 33rd Universities Power Engineering Conference, Napier University, Edinburgh, Vol. 2, and Sept.8 -10,1998, pp.517-520.

487. M.A. Rahman, M.N Uddin, T.S. Radwan and M.A. Hoque, “Intelligent Speed Control of Interior Permanent Magnet Synchronous Motors”, Proc. of 1998 IAS Annual Conference Record, St. Louis, Oct. 12 - 17, 1998, pp. 364-370.

488. K.M. Rahman, M.R. Khan, M.A. Choudhury and M.A. Rahman, “Frequency Modulated PWM for Voltage Source Investors”, Proceedings for 33rd Universities Power Engineering Conference, Napier University, Edinburgh, Vol. 2, Sept. 8 - 10, 1998, pp.521-524.

489. K.M. Rahman, M.R. Khan, M.A. Choudhury and M.A. Rahman “A Hybrid Technique for Three Phase Synchronous PWM Waveform Generation for Static

Converters", Proc. of IEEE Int. Conference on Energy Management and Power Delivery", Singapore, March 3-5, 1998, pp. 538-541.

490. M.N. Uddin, M.A. Hoque and M.A. Rahman, "Recent Developments in Large PM Synchronous Machine Drives Technology, Proc. of Large Engineering Systems Conference on Power Engineering, LESCOPE'98, Halifax, N.S., June 7-9, 1998 pp. 201-205.

491. C. Kirby and M.A. Rahman, "Generation Participation Factors for Transmission Costing", Proc. Large Engineering Systems Conference on Power Engineering, LESCOPE'98, Halifax, N.S., June 7-9, 1998, pp. 287-293.

492. M.F. Rahman, L. Zhong, M.A. Rahman and K.W. Lim, " Voltage Switching Strategies for the Direct Torque Control of Interior Permanent Magnet Motor Drives", Proceeding of International Conference on Electric Machines, ICEM- 1998, Istanbul, Turkey, vol.2, September 2-4 , 1988, pp. 941-945.

493. S. Vaez, V.I. John and M.A. Rahman, "Energy Saving Vector Control Strategies for Electric Vehicle Motor Drives," Proc. of IEEE/IEEJ Power Conversion Conference, PCC '97 Nagaoka, Japan, August 3-5, 1997, pp. 13-18.

494. K.M. Rahman, M.A. Choudhury, M.R. Khan and M.A. Rahman, "Dual Slope Integrator Type Delta Modulator for High Performance Voltage Source Inverter", Proc. of IEEE/IEEJ Power Conversion Conference, PCC 97, Nagaoka, Japan, August 3-5, 1997, pp. 451-455.

495. M.N. Anwar, M.B. Uddin, M.A. Choudhury and M.A. Rahman, "Microcomputer based on line control of a Delta Modulated Sine PWM Inverter", Proc. of European Power Electronics Conference, Trondheim, Norway, Sept. 8-10, 1997, Vol. 2, pp. 326-330.

496. K.M. Rahman, M.R. Khan, M.A. Choudhury, and M.A. Rahman, "Microcomputer based naturally sampled PWM Control of Static Power Converters", Proc. of University-Power Engineering Conference, Manchester, U.K., Sept. 10-12, 1997, Vol. 2, pp. 826-829.

497. K.M. Rahman, M.A. Choudhury, M.R. Khan and M.A. Rahman, "Dual Slope Carrier Injected Wide Band Delta Modulator for Voltage Source Inverters", Proc. Of University Power Engineering Conference, Manchester, U.K., Sept. 10-12, 1997, vol. 2, pp. 814-817.

498. K.M. Rahman, M.A., Choudhury and M.A. Rahman, "Hysteresis Current Controlled PWM Buck Converter for AC/AC Voltage Control ", Proc. of IPEC'97, Vol. 11, Singapore, May 22-24, 1997, pp. 703-706.

499. M.A. Rahman and M. A. Hoque, "Experimental Implementation of ANN Based Speed Control for Interior-Type Permanent Magnet Synchronous Motors", Proc. of IEEE/IEMDC '97, Milwaukee, May 18 - 21, 1997, pp. MC 3-8.1-3.

500. Ping Zhou, T. E. McDermott, Z. J. Cendes and M.A. Rahman, “Steady State Analysis of Synchronous Generators by a Coupled Field-Circuit Method”, Proc. of IEEE/IEMDC ‘97, Milwaukee, May 18 - 21, 1997, pp. WC 2-2.1-3.

501. R. Qin and M.A. Rahman, “DSP Based Torque and Speed Control of PMHS Motors”, Proc.of IEEE/IEMDC ‘97, Milwaukee, May 18-21, 1997, p. MC 3-9.1-3.

502. M.A. Jabbar, M.A. Hoque and M.A. Rahman, “Sensorless Permanent Magnet Synchronous Motor Drives”, Proc. of IEEE Canada/CCECE ‘97, St. John’s, May 26 - 28, 1997, pp. 878-883.

503. M.F. Rahman, W.Y. Hu, L. Zhong, W.Y. Hu, K. W. Lim and M.A. Rahman “Direct Torque Controller for Permanent Magnet Synchronous Motor Drives”, Proc. of IEEE/IEMDC ‘97, Milwaukee, May 18 - 21, 1997, pp. TD1-21-3.

504. M. F. Rahman, Y. W. Hu, K. W. Lima, Y. Xu, M.A. Rahman and A.R. Bhuiya, “Direct Torque Control of an Induction Motor Using Fuzzy Observer”, Proc. of IEEE Canada/CCECE ‘97, St. John’s, May 26 - 28, 1997, pp. 767-772.

505. M. A. Choudhury, K. M. Rahman, M.A. Rahman and A.R. Bhuiya, “Hysteresis Current Controlled PWM Converter for AC/AC Voltage Control”, Proc. IEEE Canada/CCECE ‘97, St. John’s, May 26 - 28, 1997, pp. 431-434.

506. S. Vaez, V.I. John and M.A. Rahman, “Adaptive Loss Minimization Control of Inverted IPM Motor Drives”, Proc. of IEEE/PESC, St. Louis, MO., July 22-27, 1997, pp. 861-868.

507. S. Vaez, V. I. John and M.A. Rahman, “An On-Line Loss Minimization for Interior PM Motor Drives”, Proceedings of IEEE/IEMDC ‘97, Milwaukee, May 18 - 21, 1997, pp. MC3-6.1-3.

508. M.A. Choudhury, M.B. Uddin, M.S. Uddin and M.A. Rahman, “New Topology and Analysis of Single Phase Delta Modulated Cyclo-Converter”, Proc. IEEE/PEDES ‘96 Conference, New Delhi, January 8-11, 1996.

509. A.S. Shams, A.H. Choudhury, S.M.L. Kabir, M.A. Choudhury and M.A. Rahman, “A New Method for Determining Efficiency Characteristics of Induction Motors”, Proc. of Int. Conference, High Technology in the Power Industry, Banff, Canada, June 6-8, 1996, pp. 118-121.

510. T.S. Radwan, M.A. Rahman, A.M. Osheiba and A.E. Lashine, “VSI-Fed Permanent 4agnet Synchronous Motor Drive”, Proc. IEEE Canadian Conference on Electrical and Computer Engineering, Calgary, May 27-29, 1996, pp. 611-618.

511. M.A. Rahman, R. Qin and M. A. Hoque, “Design and DSP Based Control of a Hybrid Permanent Magnet Hysteresis Synchronous Motor”, Proc. of 4th Int. Conf. on Control, Automation, Robotics and Vision, Singapore, Dec. 3-6, 1996.

512. M.A. Hoque and M.A. Rahman, “Speed Control of a High Performance Interior-type Permanent Magnet Synchronous Motor”, Proc. of 4th Int. Conf. On Control Automation, Robotics and Vision, Singapore, Dec. 3-6, 1996]

513. M.A. Hoque and M.A. Rahman, “A DSP Based Variable Speed PM Motor Drive”, Proceedings of IEEE/NECEC, April 1996, pp. 13-19.

514. M.R. Zaman, M.A. Hoque and M.A. Rahman, “On-Line Implementation of the Artificial Neural Network Based Protection of Power Transformers”, Proceedings of IEEE/NECEC, April 1996, pp. 6-12.

515. R. Qin and M.A. Rahman, “Speed Control of Permanent Magnet Hysteresis Synchronous Motors” Proceedings of the IEEE/NECEC ‘96, May 3, 1996, pp. 11-15.

516. M.A. Rahman and R. Qin, “A Permanent Magnet Hysteresis Hybrid Motor Drive for Electric Vehicles”, Proc. of the IEEE/IECON, Taipei, Taiwan, August 3-6, 1996, pp. 28-33.

517. M.A. Rahman and R. Qin, “The Design of Hybrid Permanent Magnet Hysteresis Synchronous Motor for AC Drive Application”, Proc. of the 14th Int. Workshop on Rare Earth Magnets and Their Applications, San Paulo, Brazil, September 1-4, 1996, pp. 659-667.

518. T.S. Radwan, M.A. Rahman, A.M. Osheiba and A.E. Lashine, “Performance of a Hybrid Current Controlled VSI-Fed Permanent Magnet Synchronous Motor Drive”, Proc. of 27th IEEE/PESC, Baveno, Italy, June 1996, pp. 951-957.

519. T.S. Radwan, M.A. Rahman, A.M. Osheiba and A.E. Lashine, “Design of Novel Digital Control Schemes for Permanent Magnet Synchronous Motor Drives”, Proc. of ICEM ‘96, Vigo, Spain, September 10-12, 1996, pp.

520. H.A. Darwish, M.A. Rahman, A.I. Talaab and H. Shaaban, "Overcurrent Relay with Novel Characteristics for HVDC Converter Protection", Proc. of Canadian Conference on Electrical and Computer Engineering, Montreal, Vol. 2, September 5-8, 1995, pp. 664-667.

521. T.S. Radwan, M.A. Rahman, A.M. Osheiba and A.E. Lashine, "Digital Current Control Techniques for Voltage Sources Inverters", Proc. of Canadian Conference on Electrical and Computer Engineering, Montreal, Vol. 2, September 5-8, 1995, pp. 1124-1127.

522. M.A. Rahman and P. Zhou, "Advances in Permanent Magnet Electrical Machines - A Review", Proc. of 2nd Chinese Int. Conf. on Electrical Machines, Hong Zhou, China, August 31-Sept. 2, 1995 Vol. 1, pp. 366-373.

523. K.M. Rahman, M.A. Choudhury and M.A. Rahman, "A Mono-stable Mode Thyristor Resonant Chopper", Proc. of 2nd Chinese Int. Conf. on Electrical Machines, Hong Zhou, China, August 31-Sept. 2, 1995 Vol. 1, pp. 819-824.

524. M.A. Hoque, M.R. Zaman and M.A. Rahman, "Artificial Neural Network Based Permanent Magnet DC Motor Drives", Conf. Record, IEEE Industry Applications Society Annual Meeting, Orlando, FL., October 8-12, 1995, Vol. 1, pp. 98-103.

525. H.A. Darwish, M.A. Rahman, A.E. Talaab and H. Shaaban, "Digital Model of Over current Relay Characteristics", Conf. Record, IEEE Industry Applications Society Annual Meetings, Orlando, FL., October 8-12, 1995, Vol. 1, pp.1187-1192.

526. M.A. Hoque, M.R. Zaman and M.A. Rahman, "Artificial Neural Network Based Controller for Permanent Magnet DC Motor Drives", Conf. Record, IEEE Industry Applications Society Annual Meeting, Orlando, FL., October 8-12, 1995, Vol. 2, pp. 1187-1192.

527. M. Rokonuzzaman and M.A. Rahman, "Neural Network Based Incipient Fault Detection of Induction Motors", Proc. of IEEE/IAS, Int. Conf. on Industrial Automation and Control, Hyderabad, India, Jan. 5-7, 1995, pp. 199-202.

528. M.A. Rahman, T. Fukao and A. Chiba, "Principles and Developments of Bearingless AC Motors", Proc. of 1995 Int. Power Electronics Conference, IPEC'95, Yokohama, April 3 - 7, 1995, pp. 1339-1344.

529. M.A. Rahman and P. Zhou, "The Experimental Study on PM Motor Parameters Based on Digital Torque Angle Measurement", Proc. of 1995 Int. Power Electronics Conf.", IPEC-95, Yokohama, April 3-7, 1995, pp. 1608-1612.

530. M.R. Zaman, M.A. Hoque and M.A. Rahman, "Artificial Neural network Based Protection of Power Transformer", Proc. of Canadian Electrical Association Spring Meeting, Paper No. 106, Vancouver, March 26-31, 1995.

531. H.A. Darwish, M.A. Rahman, A.I. Taalab and H. Shaaban, "Omit Protection Scheme for HVDC Converter", Proceedings of IEEE/NECEC '95, St. John's, NF, May 4-5, 1995, pp. 39-45.

532. T.S. Radwan, M.A. Rahman, A.E. Lashine and A.M. Osheiba, “DSP-Based Current Control Techniques of Voltage Source Inverters", Proceedings of IEEE/NECEC '95, St. John's, NF, May 4-5, 1995, pp. 154-159.

533. R. Qin and M.A. Rahman, "The Equivalent Circuits for Permanent Magnet Hysteresis Synchronous Motors", Proc. of IEEE/NECEC '95, St. John's, NF, May 4-5, 1995, pp. 208-213.

534. M.A. Hoque, M.R. Zaman and M.A. Rahman, "Neural Network Approach for Rotor Position Sensing of Permanent Magnet Synchronous Motor Drives", Proc. of IEEE/NECEC '95, St. John's, NF, May 4-5, 1995, pp. 214-220.

535. T.S. Radwan, M.A. Rahman, A.E. Lashine and A.M. Osheiba, "Analysis and Controller Design of DSP-Based Vector and Current Controlled Permanent Magnet Synchronous Motor Drives", Proc. of IEEE/NECEC '95, St. John's, NF, May 4-5, 1995, pp. 221-225.

536. M.A. Rahman and R. Qin, "Starting and Synchronization of Permanent Hysteresis Motors", IEEE Industry Applications Society Annual Conference Record, Vol. 1, Denver, Oct. 2-5, 1994, pp. 210-215.

537. M.A. Rahman and R. Qin, "Design and Performance of Permanent Magnet and Hysteresis Hybrid Motors", Proc. of 13th Int. Workshop on Rare-earth Magnets and Their Applications, Birmingham, U.K., Sept. 11-14, 1994, pp. 177-183.

538. M.A. Hoque and M.A. Rahman, "Speed and Position Sensorless Permanent Magnet Synchronous Motor Drive", Proc. of 1994 Canadian Conference on Electrical and Computer Engineering, Halifax, Sept. 25-28, 1994, pp. 689-692.

539. M.A. Rahman and R. Qin, "Starting Performance of Permanent Magnet Hysteresis Synchronous Motors", Proc. of First International Power Electronics and Motion Control Conference, IPEMC'94, June 27-30, 1994, Beijing, China, International Academic Publishers, Vol. 1, pp. 391-396.

540. A.H. Chowdhury, A. Mansoor, M.A. Choudhury and M.A. Rahman, "On-line Improved Inverter Waveform by Variable Step Delta Modulation", Proc. of IEEE/PESC '94 Conference, Taipei, Taiwan, June 20-24, 1994, Vol. 1, pp. 143-148.

541. A. Darwish, M.A. Rahman and A.E. Talaab, "Microprocessor-based Over Current Relay for HVDC Converter Protection", Proceedings of IEEE NECEC, April 1994, pp. 55-61.

542. P. Zhou and M.A. Rahman, "A Microprocessor-based Load Angle Measurement System", Proceedings of IEEE/NECEC, April 1994, pp. 69-74.

543. M.A. Rahman and R. Qin, "Simulation of Transient and Steady-State Performances of Permanent Magnet Synchronous Motors", Proceedings of IEEE/NECEC, April 1994, pp. 7-12.

544. M.A. Hoque, M.R. Zaman and M.A. Rahman, "Dynamic Models for Permanent Magnet Synchronous Motor Drives", Proceedings of IEEE NECEC, April 1994, pp. 13-18.

545. M.A. Hoque and M.A. Rahman, "Sensorless Algorithm for Permanent Magnet Synchronous Motor Drives", Proceedings of , IEEE/NECEC, April 1994, pp. 1-6..

546. M.R. Zaman, M.A. Hoque and M.A. Rahman, "Harmonic Analysis Using Neural Network Approach", Proceedings of IEEE/NECEC, April 1994, pp. 201-206.

547. M.A. Rahman and P. Zhou, "Field-Based Analysis for Permanent Magnet Motors", Record of the 9th. IEEE COMPUMAG Conference on the Computation of Electromagnetic Fields, Miami, October 1993, pp. 132-133.

548. S.I. Khan, M. Rahman and M.A. Rahman, "Demand Side Management Strategy of Electrical Power in Bangladesh", Proc. of 3rd. International Symposium on Electricity Distribution and Energy Management, October 27-29, 1993, Singapore, CD-ROM (8 pages)

549. T.W. Chan and M.A. Rahman, "A Low Cost Remote Alarm for Industrial Systems", IEEE Industry Applications Society Annual Meeting Conference Record, Toronto, October 1993, pp.1507-1512.

550. A. Chiba, M. Hanazawa, T. Fukao and M.A. Rahman, “Effects of Magnetic Saturation on Radial Force of Bearingless Synchronous Reluctance Machines", IEEE Industry Applications Society Annual Conference Record, Toronto, October 1993, pp.233-238.

551. G. Maani, and M.A. Rahman, "Design of a 3-phase PWM Controller for Permanent Magnet Motors using Discrete Electronics", Proc. of Small Motors International Conference SMIC '93, IEE Japan, July 22-23, 1993, pp. 263-265..

552. G. Maani, M.A. Rahman and P. Ong, "Design and Modeling of a Spindle Motor for Application in Computer hard-Disk Drive, (Part A): Design considerations and Mechanical Model", Proc. of Small Motors International Conference SMIC '93, IEE Japan, July 22-23, 1993, pp.67-69.

553. G. Maani, M.A. Rahman and P. Ong, "Design and Modeling of a Spindle Motor for Application in Computer hard-Disk Drive, (Part B): Design example using Finite Element Technique", Proc. of Small Motors International Conference SMIC '93, IEE Japan, July 22-23, 1993, pp.70-74.

554. G. Maani, M.A. Rahman, N. Sundarajan, "Efficiency Regulation of Brushless dc Motor Using a Rule-based Fuzzy-Tuned Adaptive Controller, Proc. of Small Motors International Conference SMIC '93, IEE Japan, July 22-23, 1993, pp.271-274.

555. G.G. Maani, M.A. Rahman, W.J. Bonwick and K. Arichandran, "Advantages of Sinusoidal Drive for Small Miniature Brushless dc Motors", Proc. of Small Motors International Conference SMIC '93, IEE Japan, July 22-23, 1993, pp.175-177

556. M.A. Rahman, "Electric Motors in Electronics World", Proc. of IEEE, IECON'93, Maui, Hawaii, Nov. 15-19, 1993, Vol. II, pp.644-648.

557. S.I. Khan, S.R. Khan and M.A. Rahman, "Analysis of a Three Phase Direct Frequency Changer for Input Unbalance Correction", Proc. of Proc. Power Conversion Conference, IEEE/IEE Japan Industry Applications Society, April 21-24, 1993, pp. 526-531.

558. G.G. Maani, M.A. Rahman, W.J. Bonwick and G.L. Seet, "A Microprocessor Controlled Drive for 3 Phase Permanent Magnet Brushless DC Motor", Proc. of Power Conversion Conference, IEEE/IEE Japan, Industry Applications Society, Yokohama, Japan, April 21-24, 1993, pp. 383-389.

559. M.B. Uddin, M. Akhtar, M.R. Khan, M.A. Choudhury and M.A. Rahman, "Phase Shifting by Static PWM Cyclo-inverters for Starting Single Phase Induction Motors", Proc. of Power Conversion Conference, IEEE / IEE, Japan, Industry Applications Society, Yokohama, April 21-24, 1993, pp. 532-537.

560. S. Nomura, A. Chiba, F. Nakamura, K. Ikeda, T. Fukao and M.A. Rahman "Position Control of Induction type Bearingless Motor: Considering Phase-delay Caused by the Rotor Squirrel-Cage", Proc. of Power Conversion Conference, IEE Japan Industry Applications Society, Yokohama, April 21-24, 1993, pp. 438-443.

561. M.A. Hoque and M.A. Rahman, "Simulation of Brushless dc Motor Characteristics," Proc. of IEEE, NECEC'93 Conference, St. John's, April 30, 1993, pp. 1-5.

562. M.A. Rahman and P. Zhou, "Determination of Starting Parameters of Permanent Magnet Machines", Proc. of IEEE, NECEC'93 Conference, St. John's, April 30, 1993, pp. 6-10.

563. R.D. Findlay, B. Szabados, S. Lie and M.A. Rahman," Heating Effects due to Placement of Vents in Two Pole Induction Motors", Proc. of IEEE, NECEC'93 Conference, St. John's, April 30, 1993, pp. 11-15.

564. M.B. Uddin, M. Akhtar, M.R. Khan, M.A. Choudhury and M.A. Rahman, "Phase Shifting by Static PWM Converter and Inverters for Starting Single Phase Induction Motors", Proc. of International Power Engineering Conference, IPEC `93, Singapore, March 18-19, 1993, pp. 497-502.

565. M.B. Uddin, M.A. Choudhury and M.A. Rahman, "PWM DC-DC Converters for DC-AC Conversion in an UPS", Proc. of International Power Engineering Conference, IPEC `93, Singapore, March 18-19, 1993, pp.531-536.

566. H. Lihua, Y. Yilin, M.A. Rahman, D.T.W. Chan and P.K.S. Ong "A Novel Algorithm for the Digital Protection of Power Transformers", Proc. of Canadian Electrical Association Spring E & O Meeting, Vancouver, March 29-April 3, 1992.

567. G.G. Maani and M.A. Rahman, “Fast Computing of 3-Phase and 3-Level PWM Sampling Scheme", Proc. of IEE Japan - IAS'92, 6th Annual Conference, Nagoya, Japan, August 25-27, 1992, pp. 160-163.

568. G.G. Maani, E. Crompton, C.J. Farhat, M.A. Rahman and N. Sundararajan, "Feedback Sensing for Control of Brushless DC Motor", Proc of the Second International Conference on Automation, Robotics and Computer Vision, Singapore, September 16-18, 1992, Co- 2.4.1 - 2.4.5.

569. A. Chiba, D.T. Power and M.A. Rahman, "No Load Characteristics of a Bearingless Induction Motor", IEEE Industry Applications Society Annual Conference Record, Dearborn, MI, September 28 - October 4, 1991, pp. 126-132.

570. J. Qian and M.A. Rahman, "Analysis and Microprocessor Implementation of Field Oriented Control for Permanent Magnet Hysteresis Synchronous Motor", IEEE Industry Applications Society Annual Conference Record, Dearborn, MI, September 28 - October 4, 1991, pp. 198-205

571. M.A. Rahman and Ping Zhou, Finite Element Analysis of Line-start Permanent Magnet Synchronous Motors", Proc. of Int. Conference on Electric Drives, Rock Hampton, Queensland, Australia, Sept. 18-20, 1991, pp. 278-283.

572. A. Chiba, T. Fukao and M.A. Rahman, "Principles and Terminal Characteristics of Induction Motor Type Bearingless Motor", Proc. of Industry Application Society Annual Meeting, Institute of Electrical Engineers of Japan, August 1991, pp. 324-329.

573. A. Chiba and M.A. Rahman, "Performances of Magnetic Bearing Using Reluctance Motors", Proceedings of International Conference on the Evolution and Modern Aspects of Synchronous machines (SM 100), Part 2, pp. 449-454, August 27-29, 1991.

574. M.A. Rahman, B. So and I Hermanto, "Various Algorithms for Digital Protection of Power Transformers", Proc. of2nd IEEE/NECEC Conference, St. John's, NF, May 31, 1991, pp. 88-92.

575. P. Kumar and M.A. Rahman, "Design of Permanent Magnet Hysteresis Synchronous Motor", Proc. of2nd IEEE/NECEC Conference, St. John's, NF, May 31, 1991, pp. 98-102.

576. D.T. Power, A. Chiba and M.A. Rahman, "Implementing a Bearingless Induction Motor Systems", Proc. of2nd IEEE/NECEC Conference, St. John's, NF, May 31, 1991, pp. 108-112.

577. M.A. Rahman and Z. Ping, "Finite Element Analysis of Permanent Magnet Generators", Proc. of2nd IEEE/NECEC Conference, St. John's, NF, May 31, 1991, pp. 113-118.

578. M.A. Rahman and M.A. Choudhury, "Starting Performance of Delta Modulated Inverter-Fed Submersible Motors", IEEE Industry Applications Society Annual Conference Record, Seattle, Washington, October 7-12, 1990, pp. 75-83.

579. M.A. Choudhury and M.A. Rahman, "Determination of Operating Conditions of Submersible Induction Motors from their Terminal Quantities", IEEE Industry Applications Society Annual Conference Record, Seattle, Washington, October 7-12, 1990, pp. 128-133.

580. M.A. Rahman, Y.V.V.S. Murthy and I. Hermanto, "Design and Testing of Microprocessor Based Protective Relay for Power Transformers", Proc. Of Canadian Electrical Association Spring Meeting, Montreal, Quebec, March 26-29, 1990, pp. 1-23.

581. P. Zhou and M.A. Rahman, "Determining Saturated Parameters of PM Motors by Directly Applying Load Magnetic Fields", Proc. Of IEEE/NECEC Conference, St. John's, N.F., May 04/5, 1990, pp. 52-55.

582. J.Qian and M.A. Rahman, "Microprocessor-based Field Oriented Control of Permanent Magnet Hysteresis Synchronous Motor", IEEE/NECEC Conference, St. John's, NF, May 04/05, 1990, pp. 48-51.

583. J. Jiang and M.A. Rahman, "Power System Stability Monitoring Using a Linear Predictive Coder", Proc. Of IEEE/NECEC Conference, St. John's, NF, May 4/5, 1990, pp. 62-64.

584. M.A. Rahman and P. Zhou, "Determination of Saturated Parameters of Permanent Magnet Motors Using Loading Magnetic Fields", Proc. of 4th. IEEE Conference on Electric Field Computation, Paper No. PA-37, Toronto, October 22-24, 1990, pp. 1-4.

585. M.A. Choudhury, S.I. Khan, A.H. Choudhury and M.A. Rahman, "Variable Step Rectangular Wave Delta Modulation for Inverter Operation", Proc. of International Conference on Automation, Robotics and Computer Vision, Singapore, September 19-21, 1990, pp. 606-610.

586. A.M. Osheiba, K.A. Ahmed and M.A. Rahman, "Dynamic Stability Analysis of Superconducting Synchronous Generator", Proc. of Canadian Conference on Electrical and Computer Engineering, Ottawa, September 4-5, 1990, Vol. 2, pp. 5741-4.

587. B. Jeyasurya and M.A. Rahman, "Accurate Fault Location of Transmission Lines Using Microprocessors", Proceedings of IEE 4th International Conference on Developments in Power System Protection, Edinburgh, U.K., April 11-13, 1989, IEE Publication No. 302, pp. 13-17.

588. B. Jeyasurya and M.A. Rahman, "Fast Algorithms for Transmission Line Distance Protection", Proc. of Int. Conference on Power System Protection, Singapore, Sept. 13-14, 1989, pp. 220-234.

589. I. Hermanto and M.A. Rahman, "Microprocessor Based Protective Relay for Power Transformer", Proc. Int. Conference on Power System Protection, Singapore, Sept. 13-14, 1989, pp. 338-364.

590. M.A. Rahman and A.M. Osheiba, "Dynamic Performance of Hysteresis Motors", Paper No. 41074, IEEE Industry Applications Society Annual Conference Record, San Diego, CA, October 1-6, 1989, pp. 278-289, (**Prize paper**).

591. A.M. Osheiba, K.A. Ahmed and M.A. Rahman, "Analysis of Transient Performance of Shaded Pole Motors", IEEE Industry Applications Society Annual Conference Record, San Diego, CA, October 1-6, 1989, pp. 158-165.

592. M.A. Jabbar and M.A. Rahman, "Radio Frequency Interference of Electric Motors and Controls", Paper No. 41061, IEEE Industry Applications Society Annual Conference Record, San Diego, CA, October 1-6, 1989, pp. 207-212.

593. K.A. Ahmed, A.M. Osheiba and M.A. Rahman, "Prediction of Dynamic Behaviour of a Three-Phase Induction Motor Fed from a Single-Phase Supply", IEEE Industry Applications Society Annual Conference Record, San Diego, CA, October 1-6, 1989, pp. 137-146.

594. E. Basher, Mahmudur Rahman and M.A. Rahman, "Analysis of Chopper Controlled DC Series Motor", IEEE Industry Applications Society Annual Conference Record, San Diego, CA, October 1-6, 1989, pp. 188-194.

595. M.H. Nagrial and M.A. Rahman, "Operation and Characteristics of Self excited Reluctance Generator", IEEE Industry Applications Society Conference Record, IEEE Cat. No. 88 CH2565-0, Oct. 1988, pp. 55-58.

596. B. Jeyasurya and M.A. Rahman, "Simulation of Transmission Line Fault Locator in a Personal Computer", IEEE Industry Applications Society Conference Record, IEEE Cat. No. CH2565-0, Oct. 1988, pp. 1784-1787.

597. M.A. Rahman, J.E. Quaicoe, R. Newman and M.A. Choudhury, "Spectral Analysis of Input Currents of Delta PWM Converters using Discrete Fourier Transforms", Proc. of IEEE Int. Telecommunication Energy Conference, (INTELEC), San Diego, CA, Oct. 30 - Nov. 2, 1988, pp. 513-521.

598. M.A. Rahman and A.M. Osheiba, "Improved Performance of Polyphase Hysteresis Reluctance Motors Fed From Single Phase Supplies", IEEE Industry Application Society Conference Record, Oct., 1988, pp. 195-200.

599. M.A. Rahman and A.M. Osheiba, "An Improved Performance of Hysteresis Motors", Proc. of International Conference on Electric Machines, (ICEM-88), Pisa, Italy, Sept. 12-14, 1988, Vol. III, pp. 157-160.

600. M.A. Rahman and A.M. Osheiba, "Modeling of Permanent Magnet Synchronous Generators", Proc. of International Conference on Electric Machines (ICEM-88), Pisa, Italy, Sept. 12-14, 1988, Vol. III, pp. 45-51.

601. R.K. Srivastava, M.A. Rahman, J.E. Quaicoe and M.A. Choudhury "Software Controls of Delta Modulated Inverters", Proc. of IEEE International Conference on Industrial Electronics (IECON'88), Singapore, Oct. 25-27, 1988, pp. 836-841.

602. M.A. Rahman, J.E. Quaicoe and M.A. Choudhury, "Harmonic Minimization in Delta Modulated Inverters Using Tuned Filters", Proc. of IEEE Power Electronics Specialist Conference, Kyoto, Japan, April 11-14, 1988, pp. 462-468.

603. M.A. Rahman, J.E. Quaicoe, A.R.D. Esmail and M.A. Choudhury, "Spectral Analysis of Delta Modulated Inverter Waveforms Using Discrete Fourier Transforms", Proc. Of IEEE International Conference on Industrial Electronics (IECON'88), Singapore, Oct. 25-27, 1988, pp. 338-343.

604. B. Jeyasurya and M.A. Rahman, "A Comparative Study of Transmission Line Fault Locating Algorithms", Proc. of National Conference on Microprocessor Application in Power Systems, Nagpur, India, March 1988, pp. 131-146.

605. A.D. Esmail, M.A. Rahman, J.E. Quaicoe and M.A. Choudhury, "High Performance Three phase Rectifier using Delta PWM Technique", Proc. of the International Symposium on Electronic Devices, Circuits and Systems, IIT Kharagpur, India, December 16-18, 1987, Vol. 2, pp. 578-580.

606. M.A. Rahman, J.E. Quaicoe, R.K. Srivastava and M.A. Choudhury, "A Simple Variable Frequency Three phase Sine Wave Generator", Proc. of the International Conf. on Electronic Circuits and Systems, Kharagpur, India, December 16-18, 1987, pp. 581-583.

607. B. Jeyasurya and M.A. Rahman, "Performance Evaluation of Micro Processor - based Fault Locators", AMSE International Conference on Modeling and Simulation, New Delhi, India, October 29-31, 1987, Vol. A, pp. 135-145.

608. A.M. Osheiba and M.A. Rahman, "Performance of Line-start Single Phase Permanent Magnet Synchronous Motors", IEEE Industry Application Society Annual Conference Record, Atlanta, Georgia, October 19-23, 1987, p.p. 104-108.

609. R.K. Srivastava, M.A. Choudhury, J.E. Quaicoe and M.A. Rahman, "Microcomputer Implementation of Delta Modulation Technique for Inverter Operation", IEEE Industry Application Society Annual Conference Record, Atlanta, Georgia, October 19-23, 1987, pp. 856-863.

610. M.A. Rahman and A.M. Osheiba, "Effects of Shunt Compensation on the Performance of Hysteresis-Reluctance Motors", Proc., Beijing International Conference on Electric Machines, China, August 10-14, 1987, pp. 791-794.

611. M.A. Rahman and A.M. Osheiba, "Performance Analysis of Single Phase Permanent Magnet Synchronous Motors", proceedings of Electric Energy Conference, Adelaide, Australia, Oct. 6-9, 1987, pp. 514-519.

612. M.A. Rahman, J.E. Quaicoe, M.A. Choudhury and A.D. Esmail, "Delta Modulated Rectifier-Inverter for Uninterruptible Power Supplies", Proceedings of IEEE International Telecommunication Energy Conference (INTELEC-86), Toronto, Oct. 19-22, 1986, pp. 445-449.

613. T. Sebastian, G.R. Slemon, M.A. Rahman, "Design Considerations for Variable Speed Permanent Magnet Motors", Proceedings of International Conference on Electrical Machines, Munich, West Germany, Part III, Sept. 8-10, 1986, pp. 1099-1102.

614. M.A. Rahman, A.M. Osheiba, "Design Analysis of Polyphase Polarized Hysteresis Motors", Proceedings of International Conference on Electrical Machines, Munich, West Germany, Part III, Sept. 8-10, 1986, pp. 1175-1178.

615. M.A. Rahman, A.M. Osheiba, "Effects of Parameter Variations on the Performance of Permanent Magnet Motors", IEEE Industry Applications Society Annual Conference Record, Denver, Colorado, Sept. 28 to October 3, 1986, pp. 787-793.

616. M.A. Rahman, J.E. Quaicoe, M.A. Choudhury, "An Optimum Delta Modulated Strategy for Inverter Operation", 17th Power Electronics Specialists Conference Record, Vancouver, B.C., June 23-27, 1986, pp. 410-416.

617. M.A. Rahman, A. Gangopadhyay, "Digital Simulation of Magnetizing Inrush Currents in Three Phase Transformers", Proc. Of IEEE PES Winter Meeting, New York, Feb. 2-7, 1986Paper No. 149-9,

618. M.A. Rahman, J.E. Quaicoe, M.A. Choudhury, "A Comparative Study of Delta and Sine Pulse Width Modulated Inverters", Proc. of First European Conference on Power Electronics and Applications, Vol. l, Brussels, Oct. l6-l8, l985, pp. l63-l68.

619. M.A. Rahman, B. Jeyasurya, "Microcomputer Implementation of Transformer Differential Protection Algorithms", IEEE-Electronicom'85 Conference Proceedings, Vol. 2, Toronto, Oct. 7-9, l985, IEEE Catalogue No. 85CH2238-4, pp. 310-313.

620. B. Jeyasurya, T.A. Little, M.A. Rahman, "Application of Personal Computers in Power Engineering Design and Analysis, "IEEE-IAS Conference Record, Toronto, Oct. 6-ll, l985, pp. 759-764.

621. M.A. Rahman, M.A. Choudhury, "Delta Modulated Inverters to feed P.M. Motors", Proc. of Drives/Motors Controls 85, London, England, July l5-l7, l985, pp. 59-65.

622. M.A. Rahman, J.E. Quaicoe, M.A. Choudhury, "An Analysis of Delta Modulated Inverters", Proc. of IEEE Sixteenth Power Electronics Specialists Conference, Toulouse, France, June 24-28, l985, pp. 214-219.

623. M.A. Rahman, "Design and Analysis of Large Permanent Magnet Synchronous Motors", Proc. 8th International Workshop on Rare-earth Magnets and their Applications, Dayton, Ohio, May 6-8, l985, pp. 67-75.

624. M.A. Rahman and A.M. Osheiba, "Steady State Performance of Polyphase Hysteresis Reluctance Motors", IEEE Transactions on Power Apparatus and Systems, PES Winter Power Meeting, New York, Feb. 4-8, 1985.Paper No. 85 WM 149-0

625. M.A. Rahman and A.M. Osheiba, "Transient Performance of Permanent Magnet Motors", Proc. of 4th International Conference on Ferrites, San Francisco, Nov. 2, 1984, pp. 146-152.

626. A. Gangopadhyay and M.A. Rahman, "Simulation of Magnetizing Inrush Currents in Single Phase Transformers", Proc. of International Symposium on Power Engineering, New Orleans, Nov. 12-14, 1984, pp. 47-51.

627. M.A. Rahman, A.M. Osheiba, "A Generalized Approach for Evaluating Axes Reactance of Permanent Magnet and Hysteresis Reluctance Synchronous Machines", Proceedings of the International Conference on Electrical Machines, 1984, Part 1, Lausanne, Switzerland, pp. 250-253.

628. M.A. Rahman, A.M. Osheiba, "Improved Performance of Polyphase Hysteresis Motors", Proceedings of the International Conference on Electrical Machines, 1984, Part 1, Lausanne, Switzerland, pp. 329-332.

629. M.A. Rahman, A.M. Osheiba, "Steady State Performance Analysis of Polyphase Hysteresis Reluctance Motors", IEEE-IAS Conference Record, Chicago, Illinois, Sept. 30-Oct. 4, 1984, pp. 1319-1323.

630. M.A. Rahman, J.E. Quaicoe, M.A. Choudhury, G.R. Slemon, "Steady State Performance of Permanent Magnet Synchronous Motors Fed from Delta Modulated Inverters", IEEE-IAS Conference Record, Chicago, Illinois, Sept. 30-Oct. 4, 1984, pp. 1359-1363.

631. T. A. Little and M.A. Rahman, "Effects of High Coercive Force on Starting Performance of Permanent Magnet Motors", Proc. of 7th International Rare Earth-Cobalt Permanent Magnet and their Applications", China Academic Publishers, 1983, pp. 29-36.

632. A.M. Osheiba, T.A. Little and M.A. Rahman, "Transient Performance Characteristics of Permanent Magnet Synchronous Machines", Proc. of IEEE International Electrical and Electronics Conference Proceedings, Vol. 2, Toronto, Sept. 26-28, 1983, pp. 86-489

633. S.B. Dewan, J.E. Quaicoe and M.A. Rahman, "A Six-Pulse Load Commuted Cyclo-inverter with a Resistance Load", Prof. of JIEE International Conference on Power Electronics, Tokyo, Japan, March 27-31, 1983, pp. 486-489.

634. M.A. Rahman and T.A. Little, "Balanced Operation of 3-phase hysteresis-Reluctance Motors from Single-phase Supplies", Prof. of IEEE International Conference, Mexican, 1982, Monterrey, Mexico, 1982, pp. 18-22.

635. M.A. Rahman, P.K. Dash and T.A. Little, "Computer Simulation of the Dynamic Performance of Permanent Magnet Synchronous Motors", IEEE Industry Application Society Annual Record, Philadelphia, Oct. 05-09, 1981, pp. 511-514.

636. M.A. Rahman, "Efficiency of Inverter-fed Induction Motor", IEEE Industry Application Society Annual Conference Record, Sept. 29-Oct. 3, 1980, IEEE 1980, pp. 1286-1291.

637. M.A. Rahman, "Permanent Magnet Synchronous Motor - A Review of the Design Art", Proceeding of International Conference of Electrical Machines, Athens, Greece, Part 1, September 15-17, 1980, pp. 312-319

638. M.A. Rahman, "Use of Total Scalar and Vector Potentials in the Solution of Field Problems in Machines Containing non-linear Rotor Material", Proceeding of International Conference on Large Engineering Systems, Vol. 3, July 10-12, 1980, Memorial University of Newfoundland, St. John's, Newfoundland, pp. 227-232.

639. P.K. Dash, A.K. Gopal and M.A. Rahman, "Real and Reactive Power Optimization of large Power Systems Using Static VAR Sources", Proceeding of International Conference on Large Engineering Systems, Vol. 3, July 10-12, 1980, Memorial University of Newfoundland, St. John's, Newfoundland, pp. 301-306.

640. M.A. Rahman, "High Efficiency Permanent Magnet Synchronous Motor", IEEE Industry Applications Society 1979 Annual Conference Record, Cleveland, Ohio, Sept. 30-Oct. 4, 1979, pp. 561-564.

641. M.A. Rahman and D.B. Patton, "Single-phase Balanced Operation of Polyphase Hysteresis Motors", Proceedings. of IEEE International Electrical and Electronics Conference and Exposition, October 2-4, 1979, pp. 136-137.

642. P.K. Dash, B. Sahu and M.A. Rahman, "Load Flow and Stability Analysis of Multi-machine Power Systems with Controlled Multi-terminal HVDC Links", Prof. of I.F.A.C. Symposium on Computer Applications in Large Scale Power Systems, New Delhi, India, August 16-17, 1979, Vol. III, pp. 212-219.

643. P.K. Dash, B. Sahu and M.A. Rahman, "Load Flow and Stability of Multi-machine Power Systems with Controlled Multi-terminal HVDC Links:, IEEE Control of Power Systems Conference and Exposition, A.M. University College Station, Texas, March 19-21, 1979, '79 IEEE, COPS Record, pp. 82-86.

644. P.K. Dash, B. Sahu and M.A. Rahman, "Dynamic Performance of a Wind Power Conversion System", IEEE Control of Power Systems Conference and Exposition,

A.M. University, College Station, Texas, March 19-21, 1979, IEEE COPS Record, pp. 154.

645. M.A. Rahman and J.A. Schot, "Parasitic Losses in Large Hysteresis Motors", Proc. of International Conference on Electric Machines, Brussels, Belgium, Sept. 11-13, 1978, Part 1, Paper No. SP 5/4, pp. 1-10.

646. M.A. Rahman, "Scale Modeling of Large Hysteresis Motors", Prof. of IEEE International Electrical Electronics Conference and Exposition, Sept. 26-28, 1977, Toronto, Ontario, pp. 176-177.

647. M.A. Rahman, "Performance Characteristics of Higher Rating Polyphase Hysteresis Motors", Proc. of International Conference on Electrical Machines", The City University, London, Sept. 2-6, 1974, Paper No. 1C5, pp. 1-10.

648. M.A. Rahman and A.M.Z. Huq, "Energy Resources in Bangladesh- Problems and Prospects", Proc. of the 9th World Energy Conference, Detroit, U.S.A., September 23-27, 1974, Division Paper No. I/2/7., pp. 1-7. In the book Chapter 27, pp 328-340

649. M.A. Rahman, "Electrical Industries in Bangladesh", Proc. of the Seminar of Industrialization of Bangladesh, Bangladesh University of Engineering and Technology, Dacca, March 16, 1973, pp. F1-6.

Conference Presentations, Distinguished Lectures, Tutorials, Panel Papers

650. M.A. Rahman, “Invited Lecture on "Advances of IPM Technology" at Stanford University, Palo Alto, California, USA, Friday, February 20, 2015

651. M.A. Rahman, “Status Review of IPM Motor Drives for Electric Submersible Pumps in Harsh Cold Oceans”, IEEE PES General Meeting, Denver, July 27, 2015.

652. M. A. Rahman, “Advances on IPM Traction Motor Drives for Passenger Cars and High Speed Railway Trains”, Joint Rail Conference, ASME-IEEE-ASCE, JRC2015-5698, San Jose, CA, March 23-26, 2015.

653. M.A. Rahman, “Status Review of Advances in Hybrid Electric Vehicles”, Panel Paper-IEEE PES General Meeting 2014- Washington- July 27-Aug 1-2014

654. M.A. Rahman, “Advances on Energy Efficient IPM Motor Drives”, King Fahd University of Petroleum & Minerals (KFUPM), Symposium on Machine Drives and Power Quality, KFUPM, Dhahran, KSA, Day 1, Machine Drives Workshop, March 13, 2012.

655. M.A. Rahman, “Effect of Stress on Relative Permeability for Sintered NdFeB Magnets in IPM”, Invited Special Lecture, Department on Electrical Engineering, King Fahd University of Petroleum & Minerals (KFUPM), March 12, 2012.

656. M.A. Rahman, “Power Quality Enhancements using Wavelet Modulated Inverter System”, King Fahd University of Petroleum & Minerals (KFUPM), Symposium on Machine Drives and Power Quality, KFUPM, Dhahran, KSA, Day 1, Power Quality Workshop , March 13, 2012.

657. M.A. Rahman, “ Development IPM Motor Drives for Hybrid Electric Vehicles”, IEEE Regional Distinguished Lecture Series, Tokyo Institute of Technology, Japan, June 25, 2010.

658. M.A. Rahman, “ Development IPM Motor Drives for Air Conditioners”, IEEE Regional Distinguished Lecture Series, Tokyo University of Science, Japan, June 24, 2010

659. M.A. Rahman, “ Advances of IPM Technology for Hybrid Electric Vehicles Development, IPM Motor Drives for Hybrid Electric Vehicles”, IEEE Regional Distinguished Lecture Series, University of Michigan, Ann Arbor, USA, September 7, 2009.

660. M.A. Rahman, “ Advances in IPM Technology for Hybrid Electric Vehicles (future HEV)”, IEEE Regional Distinguished Lecture Series, Mobilis Conference , Belfort, France, November17, 2009.

661. M.A. Rahman, “Recent Status of Wind Generators- Including PM Machines”, IEEE Regional Distinguished Lecture Series, IUT, Ghazipur, December 20, 2008.

662. M.A. Rahman, “Advances on Hybrid Electric Vehicles Using Knowledge Based Electro-technology” Global Knowledge Forum, Medina, Saudi Arabia., June 22-23, 2008

663. M.A. Rahman, “Invited Lecture on Advances of IPM Motor Drives on Hybrid Electric Vehicles”, Rolls Royce Design Centre, University of Sheffield, April 29, 2007.

664. M.A. Rahman, “ Invited Lecture on Recent Advances in IPM Motor Drives , Middle East Technical University, Ankara, Turkey, September 08, 2007.

665. M.A. Rahman, “Keynote Lecture on High Efficiency IPM Motor Drives for Hybrid Electric Vehicles”, ACEMP-2007, Bodrum, Turkey, Sept. 11, 2007.

666. M.A. Rahman, “Invited Lecture on Recent Advances of Interior Permanent Magnet (IPM) Machines in Hybrid Electric Vehicles”, University of South Alabama, Mobile, AL, USA, September 27, 2007.

667. M.A. Rahman, “Invited Public Lecture on Advances of IPM Motor Drives in Hybrid Electric Vehicles and its Impacts on the ASEAN automobile Markets”, University of Malaysia, Kuala Lumpur, November 29, 2007.

668. M.A. Rahman, “Keynote Lecture on Advances of IPM Motor Drives for Traction Applications”, 2007 Australasian University Power Engineering Conference, Perth Australia , December 11, 2007.

669. M.A. Rahman, " Modern AC Motor Drives", 1-day short course at P.J. Hilton, Kuala Lumpur, Malaysia, December 18, 2007

670. M.A. Rahman, "Invited Lecture on Advances of Modern IPM Motor Drives For High Performance Applications," Proc. of International Conference on Electrical Machines and Systems, ICEMS-2006, Nagasaki, Japan, November 20-23, 2006, CD ROM(12 pages).

671. M.A. Rahman, "Keynote Lecture on Advancements in Digital Protection of Power Transformers," Proc. of International Conference on Power and Energy, PECon-2006, Putra Jaya, Malaysia, November 28-29, 2006, CD ROM (1o pages).

672. M.A. Rahman, " Design and Applications of IPM Motor Drives in Air Conditioners", IEEE-IAS Distinguished invited Tutorial at IAS- Mumbai Chapter, IIT Bombay, India, December 14, 2006.

673. Advances in IPM Motor Drives", IEEE-IAS Distinguished Lecture, IAS Chapter Montreal, September 09, 2005.

674. M.A. Rahman, " Recent Advances in IPM Motor Drive in Power Electronics World", Plenary Lecture, IEEE-PEDS 2005 Conference, Kuala Lumpur, Malaysia November 29, 2005.

675. M.A. Rahman, " Power Electronics as Enabling Technology for New and Renewable Energy Systems, IEEE-IAS Distinguished Lecture, IUT, Gazipur, December 05, 2005

676. M.A. Rahman, "Recent Advances in IPM Motor Drives", IEEE-IAS Distinguished Lecture, Advances in Power Electronics and Drives Symposium, AUS, Sharjah, UAE, Dec.14, 2005.

677. M.A. Rahman, "Wavelet Based Protection of Power Transformers", IEEE-IAS Distinguished Lecture, San Salvador, March 01, 2005.

678. M.A. Rahman, " Advances in Interior Permanent Magnet Motor Drives", IEEE-IAS Distinguished Lecture, San Salvador, March 01, 2005

679. M.A. Rahman, "Advances in Interior Permanent Magnet Motor Drives", IEEE-IAS Distinguished Lecture, Durban, South Africa, July 11, 2005.

680. M.A. Rahman, "Advances in IPM Motor Drives", IEEE-IAS Distinguished Lecture, IAS Chapter, Toronto, March 03, 2005.

681. M.A. Rahman, "Advances in High Efficiency IPM Motor Drives", IEEE-IAS Distinguished Lecture, Tehran, February 09, 2005.

682. M.A. Rahman, "Wavelet Packet Transform Based Protection of Power Transformers", IEEE-IAS Distinguished Lecture, Tehran, March 08, 2005.

683. M.A. Rahman, "Advances in IPM Motor Drives", IEEE-IAS Distinguished Lecture, IEEE Bangladesh Section, Dhaka, January 05, 2005.

684. M.A. Rahman, “Advances in IPM Motor Drives”, IEEE-IAS Distinguished Lecture, IAS Rock Valley Chapter, October 28, 2004.

685. M.A. Rahman, “Modern Interior Permanent Motor (IPM) Drives and Controls”, IEEE- IAS Distinguished Lecture (D/L) at PES-IAS Delhi Chapter (IIT), February 09, 2004.

686. M.A. Rahman, “Power Transformer Protections Using Wavelets”, IEEE- IAS Distinguished Lecture (D/L) at PES-IAS Delhi Chapter (JMI), Feb. 06, 2004.

687. A. Chiba, T. Fukao and M.A. Rahman, “Performance Characteristics and Parameter Identification for Inset-Type IPM Bearingless Motor Drive”, IEEE Power Engineering Society Panel Session on Super High Speed Drive, Denver, June 7-10, 2004, CD-ROM (8 pages).

688. M.A. Rahman, “Wavelets Applications in Power Quality Assessment and Protection”, IEEE- IAS Distinguished Lecture (D/L) at PES-IAS Baltimore Chapter (Howard University, Washington DC), July 01, 2004.

689. M.A. Rahman, “Intelligent Controllers for Power Electronics and Drives”, IEEE- IAS Regional Speaker Invited Lectures at IAS Cairo Chapter, December 24, 2003.

690. M.A. Rahman, “Advanced Bearingless IPM Motor Drives”, IEEE- IAS Regional Speaker Invited Lectures at Alexandria University, Dec. 22, 2003.

691. S. Vaez, V.I. John and M.A. Rahman, “DSP Control of High Performance Permanent Magnet Synchronous Motor Drives, Part I: Design and Simulation. Part II: Implementation and Experimental Evaluation”, 6th Int. Conference on Electrical Engineering, ICEE’98, K.N. Toosi University of Technology, Tehran, May 12-14, 1998.

692. S. Vaez and M.A. Rahman, “Design and Implementation of Maximum Efficiency Control for High Performance Motor Drive”, 5th Int. Conference on Electrical Engineering ICEE’97, Sharif University, Tehran, May 6-8, 1997.

693. M.A. Rahman, P. Zhou and R. Quigley, "High Efficiency and High Performance Permanent Magnet Motors", Asia Energy Efficiency Conference, Singapore, Sept. 19-21, 1994.

694. M.A. Rahman, "Permanent Magnet Synchronous Motors", NATO Advanced Study Industry on Modern Electrical Drives", Antalya, Turkey, January 31 - February 11, 1994.

695. M.A. Rahman, "Power System Operation and Management," United Nations Economic and Social Commission for Asia and the Pacific (UN-ESCAP) Workshop on Power System Management, ILSAS, Bangi, Kuala Lumpur, Malaysia, December 2-14, 1991.

696. M.A. Rahman, "Effects of Harmonics on Protective Relays for Power System", Seminar on Power Systems Harmonics, Tenaga Nasional Berhad

697. , ILSAS, Bangi, Kuala Lumpur, Malaysia, September 9-10, 1991.

698. M.A. Rahman and Z. Ping, "A New Method for the Torque Determination of Permanent Magnet Synchronous Machines", Chinese Int. Conf. on Electric Machines, Wuhan, September 11-13, 1991.

699. M.A. Rahman and Z. Ping, "Finite Element Techniques for Permanent Magnet Synchronous Motors", Progress in Electromagnetics Research Symposium, M.I.T., July 1-4, 1991.

700. M.A. Rahman, "High Energy Permanent Magnet Materials and Their Applications", International Symposium on Recent Advances in Physics, Dhaka, Bangladesh, January 15-19, 1990.

701. M.A. Rahman, "Advances in Super Conductors and Their Applications in Power Apparatus", IEEE Technical Presentation, Nov. 1988.

702. M.A. Rahman, "Modeling of Permanent Magnet Machines", Invited Tutorial, Fifth Annual Conference on Properties and Applications of Magnetic Materials, I.I.T., Chicago, May 28-29, 1986.

703. A.M. Osheiba and M.A. Rahman, "Characteristics of Permanent Magnet Alternators", University Power Engineering Conference, Imperial College of Science & Technology, London, England, April 1986.

704. A.M. Osheiba and M.A. Rahman, "Field Analysis of Polyphase Reluctance Motors", University Power Engineering Conference, Imperial College of Science and Technology, London, England, April 1986.

705. M.A. Rahman, G.R. Slemon, "Invited Tutorial on Permanent Magnet Motor Design", IEEE Intermag-86, Phoenix, Arizona, April 16, 1986.

706. O.P. Malik, M.S. Sashdev, M.A. Rahman, "Invited Tutorial on Digital Protection, CEA Spring Meeting, Toronto, March 26, 1986.

707. M.A. Rahman, J.E. Quaicoe, M.A. Choudhury, "Filtered Delta Modulated Strategy for Inverter Operations", Conference for Applied Motion Control, Minneapolis, MN, June 10-12, 1986.

708. A.M. Osheiba, M.A. Rahman, "Run-up Response of Permanent Magnet Hysteresis Motors with Ferrite Magnets", Proceedings of University Power Engineering Conference, Huddersfield, England, April l985.

709. A. Gangopadhyay and M.A. Rahman, "Analysis and Computer Simulation of Magnetizing Inrush Current for Transformers: Part I -Single Phase", presented at Canadian Electrical Association Conference, Montreal, March 25, 1985.

710. M.A. Rahman, "Comparative Performance Analysis of Algorithms for Microprocessor Based Differential Protection of Power Transformers", 10th AMSE Conference, Purdue University, West Lafayette, July 6-8, 1984.

711. M.A. Rahman, "Electromechanical Applications of Rare Earth Permanent Magnets", 5th International Conference on Rare-earth Cobalt Magnets and their Applications, Roanoke, Virginia, June 7 - 10, 1981.

712. P.K. Dash and M.A. Rahman, "Applications of Microprocessors for Power System Monitoring and Control", International Conference on Micro-Computer Application to Industrial Control, Calcutta, India, Feb. 14-16, 1981.

713. M.A. Rahman, "International Developments in Synchronous Motor and Drive Technology", Magnetic Material Producers Association (MMPA) Conference, Milwaukee, Wisconsin, January 9-10, 1980.

714. J.J. Duplessis and M.A. Rahman, "European Trends in Permanent Magnet Motor Design and Application", MMPA Conference, Milwaukee, Wisconsin, January 9-10, 1980.

715. B.B. Saha and M.A. Rahman, "Economic Scheduling of Generation in Bangladesh, Proc. on Power Seminar, Bangladesh University of Engineering and Technology, Dacca, Paper No. 5, May 21, 1972.

716. M.A. Rahman, "The Present and Future of Electric Power in Bangladesh", Proc. on Power Seminar, Bangladesh University of Engineering and Technology, Dacca, Paper No. 1, May 21, 1972.

717. M.A. Rahman, C.F. Rahim and M.F. Rahman, "Electrification of Irrigation Projects in Bangladesh", Proc. on Power Seminar, Bangladesh University of Engineering and Technology, Dacca, Paper No. 8, May 21, 1972.

718. M.A. Rahman, "Electrical Power and Bangladesh", the Dainik Bangla, February 13, 1972.

719. M.A. Rahman, "Why Power Failure", the Pakistan Observer, October 8,1969

Research and Industrial Reports

720. A. Chiba and M.A. Rahman, "AC Drive System Techniques for Users", Translation of Japanese Report 11-333, IEE, Japan, 1190/1991.

721. M.A. Rahman, "Report on Industrial Electronics Laboratory Development Project", Bangladesh Institute of Technology, Rajshahi for Canadian International Development Agency, Project No.: 01824-S27265, June 1991, (142 pages).

722. M.A. Rahman, "Report on Efficiency Improvements in Small Horsepower Single Phase Electric Motors", for Canadian Electrical Association, Montreal, December 1985, (50 pages).

723. M.A. Rahman, "Report on Power Electronics Laboratory Project", Bangladesh University of Engineering and Technology, Dhaka for Canadian International Development Agency, Project No. CIDA 338-90/117-28, June 1985, (85 pages).

724. M.A. Rahman, "Technical Research report on Development of Permanent Magnet Synchronous Motors", PRAI Grant No. P-8003, June 1983 (collaborating company: Canadian General Electric), (125 pages).

725. M.A. Rahman, "Pole Face Loss in 6000 hp Synchronous Motor", Canadian General Electric Publication Series, Paper No. 68, Mar. 1, 1968, (15 pages).

726. M.A. Rahman, "Mathematical Descriptions of Core Losses in Ferromagnetic Laminations at High Flux Densities", Canadian General Electric Publication Series, Paper No. 68, Mar. 2, 1968, (34 pages).

727. M.A. Rahman, "Core Loss Anomaly in Ferromagnetic Laminations", Canadian General Electric Publications Series, Paper NO. 68, Mar. 3, 1968, (7 pages).

728. M.A. Rahman, "Tooth Ripple Losses in Smooth Laminated Poles of Synchronous Machine", Canadian General Electric Publication Series, Paper No. 68, Mar. 4, 1968, (10 pages).

729. M.A. Rahman, "Core Loss in Single Lamination at High Flux Density", Canadian General Electric Publication Series, Paper No. 68, Mar. 5, 1968, (19 pages).

Consulting Work Reports

730. M.A. Rahman, "Report on Mine Resistivity and Ground Resistance Feasibility Study", Iron Ore Company of Canada, Labrador City, November 04, 2005, 14 pages.

731. M.A. Rahman, " Report on Control Problem of ATO Ore Car Dumper dc M-G Set", Iron Ore Company of Canada, Labrador City, October 27, 2004, 10 pages.

732. M.A. Rahman, "Report on Network Analysis of Automatic Train Operation (ATO) Traction Power System including Ground Return Path for Iron Ore Company of Canada", D.G. Patton Consulting Inc, October 27, 2003, 114 pages.

733. M.A. Rahman, "Report on the Design of Homopolar Generator for Tank Power Supply, Mechron Company Ltd, Ottawa, May-June 2002, 20 pages.

734. M.A. Rahman, "Electrical Installations on Shipboard, Cables of Ro-Ro- Passenger Vessel, M.V. Appolo", Poseidon Marine Consultants Ltd., February 05, 2001,10 pages.

735. M.A. Rahman, "Visual Activity of a Motorist while Driving at Dusk Conditions", Ronald A. Cole Law Offices, St. John's, May 30, 2001, 3 pages.

736. M.A. Rahman, "Replacement of 60 MVAR Synchronous Condenser Problem", Iron Ore Company of Canada, January 20, 1998, 76 pages.

737. M.A. Rahman "Investigations and Solutions of Failures and Problems of 192 MVA Electronic Shovel 50 AC, Iron Ore Company of Canada, May 08, 1997, 10 pages.

738. M.A. Rahman and D. A. Friis, “Report on Test of Diesel Generator for Oceanex Crane Gottwald 102", Oceanex Ltd., St. John’s, April 1996, 130 pages.

739. M.A. Rahman, "Report on Investigation of Harmonic Neutral Voltages and Currents in Proposed MUN Annex Generators Paralleling System", Avalon Controls, St. John's, Jan. 1994, (11 pages).

740. M.A. Rahman, "Report on High Neutral Currents at CBC TV Building", Prince Philip Drive, St. John's, May 1993, (39 pages).

741. M.A. Rahman, "Report on Mini-Hydro, Scientific Research and Experimental Development", Revenue Canada Taxation, March 1991, (131 pages).

742. M.A. Rahman and W.G. Smith, "Report on Varta Stationary Battery Plates Failures Investigation and Testing", Newfoundland and Labrador Hydro, December 1990, (62 pages).

743. M.A. Rahman, "Report on Measurement of Harmonics and Waveform Distortion Factors for Solid-State Uninterruptible Power Distribution Units", Energy Management Centre, Newfoundland and Labrador Hydro, June 1990, (46 pages).

744. M.A. Rahman, Report on Harmonic Interference of Static Converters on the Signaling and Remote Controls of ATO at Iron Ore Company of Canada, Labrador City, July 1990 (110 pages).

745. M.A. Rahman, Report on Asynchronous Operation of Turbo Generators for Nova Scotia Power Corporation (Power Systems Engineering Consultant), February 21, 1990, (5 pages).

746. M.A. Rahman, Report on Harmonics from Uninterrupted Power Supply Units at Energy Management Systems Centre, Newfoundland and Labrador Hydro, April 1990, (62 pages).

747. M.A. Rahman, Measurement and Evaluation of Load Harmonics in Capacitor Banks for St. Claire Hospital Corporation, April 1990, (5 pages).

748. M.A. Rahman, "A Report on the Design and Construction of Electro-fishing Equipment", Oceanus International Limited, October 31, 1989, (8 pages).

749. M.A. Rahman, "A Report on Shaft Currents in Bergen - CGE 600V, 2580kVA, 3-phase Diesel Generator on Bow Drill-3, Bow Valley Offshore Drilling Ltd., Halifax, N.S., February 6, 1989, (10 pages).

750. M.A. Rahman, "A Report on System Voltage Unbalance at Come-by-Chance Plant", Newfoundland &Labrador Hydro Operations, March17,1988 (28 pages).

751. M.A. Rahman, "Report on Transformer Differential Relay, GEC MBCH 12/13/16 Type", Newfoundland and Labrador Hydro, Operations, June 08, 1988, (15 pages).

752. M.A. Rahman, "Report on Design Evaluation and Measurements of Stator Balanced Winding for Westinghouse 200 hp, 2-pole, 575V, 3-□, 60 Hz, Induction

Motor of Holyrood Thermal Station, Electro-mechanical Services Ltd., Topsail, Nfld., Nov. 10, 1986, (16 pages).

753. M.A. Rahman, "Test Report on Measurements and Evaluation of Stator Winding Resistance and Unbalance Winding of Hitachi 180 hp, 2-pole, 3-phase, 575 V, 60 Hz Induction Motor", Holyrood Thermal Plant, Newfoundland and Labrador Hydro, August 01, 1986, (14 pages).

754. M.A. Rahman, "Test Report on Measurements and Evaluation of Stator Resistance of the Generator No. Gl of Vessel M.V. Arctic Shiko", for Seaforth Fednav Inc. Halifax, N.S., December 1985, (22 pages).

755. Report on the Use of Micro Computer Based 3-□ PWM Inverters for Speed Control of Submersible Motor in Seabed Corer, C-CORE, Nov. 10, 1982.

756. Report on Failure of Brushless Exciters of Harwood and Stephenville 50 MVA Gas Turbine Generators, Newfoundland and Labrador Hydro, Nov. 18, 1982, (6 pages).

757. M.A. Rahman, "Reports on High Efficiency Motors for Radiator Fans", Newfoundland and Labrador Hydro, Power Distribution Districts, 1981, (32 pages).

758. M.A. Rahman, "Report on High Neutral Current at St. Anthony Plant Due to 3rd Harmonic Voltage" (Low Resistance Neutral Grounding for 2 MW, 4.16 kV, G.E.C. Brushless Generators), Newfoundland and Labrador Hydro, 1981. (32 pages)

759. M.A. Rahman, Report on High Neutral Current at Ramea Plant due to 3rd Harmonic Voltage (High Resistance Neutral Grounding of 1 MW, 4.16 kV, G.E.C. Brushless Generator), Newfoundland and Labrador Hydro, 1981, (33 pages).

760. M.A. Rahman, "Report on Trawl Winch Generator Failures", for National Sea Products Ltd., St. John's, May 17, 1978, (35 pages).

761. M.A. Rahman, "Report on Measurement of Earth Resistivity and Ground Resistance", for Newfoundland & Labrador Hydro, June13, 1978, (38 pages).

762. M.A. Rahman, "Report on Status of Hysteresis Motors Using Amorphous Metals", General Electric Co., Schenectady, N.Y., January 1979, (14 pages).

763. M.A. Rahman, "Manitoba Hydro's 15kV Switch Gear Specification", No. 1215, Dorsey and Henday Stations, Nelson River Project, 1976, (66 pages).

764. M.A. Rahman, "Manitoba Hydro's 5kV Switch Gear Specifications", No. 1216, Dorsey and Henday Stations, Nelson River Project, 1976, (76 pages).

765. M.A. Rahman, "Manitoba Hydro's 600 volt Power Centre Specifications", No. 1229, Dorsey and Henday Stations, Nelson River Project, 1976, (70 pages).

766. M.A. Rahman and B. Chandren, "Manitoba Hydro's 600 volt Motor Control Centre Specification", No. 1238, Dorsey and Henday Stations, Nelson River Project, 1976, (70 pages).

767. M.A. Rahman, "Report on the Technical Manpower Requirement for East Pakistan", 1969-1971, (Co-authors Funded by U.S. Aid and Government of Pakistan), (150 pages).

Patents

768. W.R. Mischler, M.A. Rahman and L.W. Speaker, "Hysteresis Permanent Magnet Inside-out Motor", G.E. docket No. RD-11, 569, November 14, 1978.

769. M.A. Rahman, "Radial flux Hysteresis Permanent Magnet Squirrel-cage Rotor", G.E. docket No. RD-11, 570, November 21, 1978.

770. M.A. Rahman, "Hysteresis-Reluctance-Magnet Motor", G.E. docket No. RD-11, 571, December 17, 1978.

771. M.A. Rahman, "Circumferential Flux Amorphous Permanent Magnet Rotor of Synchronous Motor", G.E. docket NO. RD-11, 565, December 16, 1978.

772. M.A. Rahman, "Permanent Magnet Hysteresis-Reluctance Motor", Canadian Patent No. 2,006 647; Date of Issue: May 19, 1998.

773. M.A. Rahman, Y.V.V.S. Murthy and Ivi Hermanto, "Digital Protective Relay for Power Transformers", U.S. Patent No. 5, 172, 329; Date of Issue: Dec. 15, 1992.

774. M.A. Rahman, "Combination Hysteresis, Reluctance and Permanent Magnet Motor", U.S. Patent No. 5, 187, 401; Date of Issue, February 16, 1993.

775. M.A. Rahman, “Combination Hysteresis, Reluctance and Permanent Magnet Motor”, Canadian Patent No. 2,006,647; Date of Issue: May 19,1999.

776. M.A. Rahman, Y. Murthy and I. Hermanto, "Microprocessor-based Digital Protective Relay for Power Transformers", Canadian Patent No. 2,018,938; Date of Issue: January 08, 2002.

777. M.A, Rahman and S.A.M. Saleh,” Protective Control Method And Apparatus For Power Devices”, US 2004/0264094 A1, Date of Issue: December 30, 2004

778. M.A, Rahman and S.A.M. Saleh, “Protective Control of Apparatus for Power Devices”, US Patent Application # 12362-3, April 2003

779. S.A.M. Saleh, C.R. Maloney and M.A. Rahman, “Wavelet Modulation Technique for three phase voltage Source Inverters”, US Patent Application November 2011

Standards (Co-author)

780. IEEE Standard Test Procedure for Single-phase Induction Motors, IEEE Standard 114-1982 (Co-author)

781. IEEE Standard: Test Procedure for Polyphase Induction Machines, June 30, 1987 (Co-author).

782. Recommended Practice for Efficiency Determination of AC Adjustable Speed Drives, Part II, Self-Commutated Inverter Induction Motor Drive, 1988 (Co-author)

783. IEEE Guide: Test Procedures for Synchronous Machines, IEEE Standard 115-1983 (Re-confirmed Dec. 4, 1990, Co-author).

784. IEEE Standard 432, 1976 (Revised), Guide for Insulation Maintenance for Rotating Electrical Machinery (SLP - less than 1,000 hp) (co-author).

785. IEEE Standard Guide 112, 3 Phase Induction Motors, Revision working Group, (Co-author), 2012

786. IEEE Standard Guide 1812, Guide for Testing Permanent Magnet Machines (Co-author), 2016 (**Prize Award**)