

ELENCO COMPLETO DELLE PUBBLICAZIONI SCIENTIFICHE

M.ZIGLIOTTO

1988-1991

- [1] S.Bolognani, G.Trento, M.Zigliotto, "PC Control of a PM Brushless Motor Drive", Proceedings of 12th International Motor-Con Conference, ISBN 0931033101, Publ. Ventura, Calif.: Intertec Communications pp.219-230, Munich, West Germany, June 6-9, 1988.
- [2] S.Bolognani, D.Fighera, M.Zigliotto, "Microprocessor Control of a Stepping Motor using a PLC Board", Proceedings of IEEE Workshop on Microcomputer Control of Electric Drives, pp.B6.1-B6.13, Trieste, Italy, 1989.
- [3] S.Bolognani, G.Trento, M.Zigliotto, "I motori a magneti permanenti", Rivista "Progettare", ISSN: 0391-6936, ETAS Periodici, Milano, n.121, pp.84-91, 1990.

1992

- [4] A.Bado, S.Bolognani, M.Zigliotto, "Effective Estimation of Speed and Rotor Position of a PM Synchronous Motor Drive by a Kalman Filtering Technique", Proceedings of IEEE Annual Power Electronics Specialists Conference, PESC'92, ISBN: 0-7803-0695-3, Scopus: 2-s2.0-84855657284, pp.951-957, Toledo, Spain, 1992.
- [5] S.Bolognani, M.Zigliotto, "Rifasamento e filtraggio armonico di un sistema multiconvertitore di grande potenza", Atti del Convegno su "Le armoniche nelle reti elettriche di distribuzione e l'alimentazione degli impianti a fune", pp.365-377, Trento, Italia, 1992.
- [6] S.Bolognani, M.Zigliotto, "Development of a Fuzzy Controller for a DC Drive", IFAC Proceedings Volumes, ISSN 1474-6670, DOI:10.1016/S1474-6670(17)55572-8, Volume 25, Issue 29, Part 1, pp. 235-240, Perugia, Italy, October 1992.
- [7] S.Bolognani, M.Zigliotto, "L'impiego della Fuzzy Logic nell'automazione dei sistemi di trasporto elettrificati", Atti del Convegno "Sviluppo e prospettive dei trasporti elettrificati: ricerca ed innovazione", pp.921-929, Genova, Italia, 1992.

1993

- [8] S.Bolognani, G.Buja, M.Zigliotto, "Fuzzy Logic Control of a DC Servo Drive", Proceedings of IEEE International Workshop on Neuro-Fuzzy Control, pp.370-374, Muroran, Japan, 1993.
- [9] S.Bolognani, E.Ognibeni, M.Zigliotto, "Sliding Mode Control of the Energy Recovery Chopper in a C-dump Switched Reluctance Motor Drive", IEEE Transactions on Industry Applications, vol.29, no.1, pp.181-186, 1993.
- [10] S.Bolognani, E.Ognibeni, M.Zigliotto, "Sliding Mode Control of the Energy Recovery Chopper in a C-dump Switched Reluctance Motor Drive", , APEC'91, DOI 10.1109/APEC.1991.146163, Scopus: 2-s2.0-0026126434 , ISBN: 0-7803-0024-6, pp.188-194, Dallas, Texas, 1991.
- [11] N.Bianchi, S.Bolognani, M.Zigliotto, "Tecniche di modulazione: fondamenti e strategie convenzionali", Atti del IV Seminario Interattivo su "Azionamenti Elettrici con controllo a microprocessore", Bressanone, Italia, 1993.

- [12] N.Bianchi, S.Bolognani, M.Zigliotto, "Sliding Mode Control of a Switched Reluctance Motor Drive", Proceedings of the European Space Power Conference, ESPC'93, pp.321-326, Graz, Austria, 1993.
- [13] S.Bolognani, M.Zigliotto, "Inferential Processor Based Fuzzy Controller for a DC Drive", Proceedings of 5th European Conference on Power Electronics and Applications, EPE'93, WOS:A1993BA44P00039, Scopus: 2-s2.0-0027800482, ISBN: 0-85296-586-9, ISSN: 0537-9989, pp.225-230, Brighton, England, 1993.
- [14] S.Bolognani, M.Fracchia, P.Pozzobon, M.Zigliotto, "A Generalized Model for Harmonic Analysis of Natural Commutation Conversion Systems", Proceedings of 5th European Conference on Power Electronics and Applications, EPE'93, pp.179-184, Brighton, England, 1993.

1994

- [15] S.Bolognani, M.Zigliotto, "Implementazione in microprocessori convenzionali di controllori Fuzzy con inferenza off-line", Atti del V Seminario Interattivo su "Azionamenti elettrici con controllo a microprocessore", Bressanone, Italia, 1994.
- [16] S.Bolognani, M.Tursini, D.Q.Zhang, M.Zigliotto, "Application of a Fuzzy Self Organising Controller to a Motor Drive", Proceedings of Symposium on Power Electronics, Electrical Drives, Advanced Electrical Motors, SPEEDAM'94, pp.299-304, Taormina, Italy, 1994.
- [17] S.Bolognani, R.Oboe, M.Zigliotto, "DSP-based Extended Kalman Filter Estimation of Speed and Rotor Position of a PM Synchronous Motor", Proceedings of IEEE International Conference on Industrial Electronics, Control and Instrumentation, IECON'94, pp.2097-2102, Bologna, Italy, 1994.

1995

- [18] S.Bolognani, M.Zigliotto, "Parameter Sensitivity of the Kalman Filter Applied to a Sensorless Synchronous Motor Drive", in 6th European Conference on Power Electronics and Applications, EPE'95, pp.3375-3380, Sevilla, Spain, 1995.
- [19] N.Bianchi, S.Bolognani, M.Zigliotto, "Fuzzy Logic Automatic Design of Induction Machines", Proceedings of the IEEE International Symposium on Electric Power Engineering "Stockholm Power Tech", pp.245-250, Stockholm, Sweden, 1995.

1996

- [20] S.Bolognani, M.Zigliotto, "Space Vector Fourier Analysis of SVM Inverters in the Overmodulation Range", Proceedings of the 1996 IEEE International Conference on Power Electronics, Drives and Energy Systems for Industrial Growth, PEDES '96, pp.319-324, New Delhi, India, 1996.
- [21] R.Conton, M.Zigliotto, "Realizzazione 'low-cost' di controllori in logica fuzzy", Rivista "Automazione e Strumentazione", Febbraio 1996, pp.111-116, 1996.
- [22] S.Bolognani, M.Zigliotto, M.Zordan, "Sensorless Current Control of a Soft-Starter for Induction Motors", European Power Electronics Chapter Symposium on Electric Drive Design and Applications, EPE'96, pp.135-139, Nancy, France, 1996.
- [23] N.Bianchi, S.Bolognani, M.Zigliotto, "Analysis of PM Synchronous Motor Drive Failures during Flux Weakening Operation", Proceedings of 27th Power Electronics Specialists Conference, PESC'96, pp.1542-1548, Baveno, Italy, 1996.
- [24] S.Bolognani, R.Conton, M.Zigliotto, "Experimental Analysis of the EMI Reduction in PWM Inverters Using Random Space Vector Modulation", Proceedings of IEEE International Symposium on Industrial Electronics, ISIE'96, pp.482-487, Warsaw, Poland, 1996.

- [25] S.Bolognani, R.Conton, M.Zordan, M.Zigliotto, "A Minimal Sensor PM Synchronous Motor based on a single DC Link Current Measurement", Invited Paper for Electromotion Journal, Mediamira Science Publisher, no.2, pp.77-83, Romania, 1996.
- [26] N.Bianchi, S.Bolognani, M.Zigliotto, "Prediction of Iron Losses in Switched Reluctance Motors", Proceedings of 7th International Power Electronics and Motion Control Conference, PEMC'96, pp.223-228, Budapest, Hungary, 1996.
- [27] N.Bianchi, S.Bolognani, M.Zigliotto, "Fuzzy Knowledge Based Design of PM Synchronous Motors", International Conference on Electrical Machines, ICEM'96, vol.II, pp.365-369, Vigo, Spain, 1996.
- [28] N.Bianchi, S.Bolognani, M.Zigliotto, "The Design of Brushless DC Motor for Maximum Torque/Volt-Amps Ratio", International Conference on Electrical Machines, ICEM'96, Vigo, pp.359-364, Spain, 1996.
- [29] S.Bolognani, M.Zigliotto, "Fuzzy Logic Control of a Switched Reluctance Motor Drive", IEEE Transactions on Industry Applications, vol.32, no.5, pp.1063-1068, September/October 1996.
- [30] S.Bolognani, M.Zigliotto, "Fuzzy Logic Control of a Switched Reluctance Motor Drive", Conference Records of IEEE Industry Application Society, IAS'93, pp.2049-2054, Toronto, Canada, 1993.
- [31] S.Bolognani, M.Zigliotto, "A Novel Fuzzy Knowledge Based Flux Observer for Induction Motor Drives", Conference Records of IEEE Industry Application Society, IAS'96, pp.426-431, S.Diego, California, 1996.

1997

- [32] S.Bolognani, M.Zigliotto, "Novel Digital Continuous Control of SVM Inverters in the Overmodulation Range", IEEE Transactions on Industry Applications, vol.33, no.2, pp.525-530, March/April 1997.
- [33] S.Bolognani, M.Zigliotto, "Novel Digital Continuous Control of SVM Inverters in the Overmodulation Range", Proceedings of IEEE Annual Applied Power Electronics Conference, APEC '96, pp.219-223, S.Josè, California, USA, 1996.
- [34] S.Bolognani, M.Zigliotto, K.Unterkofler, "On-line Parameter Commissioning in Sensorless PMSM Drives", Proceedings of IEEE International Symposium on Industrial Electronics, ISIE'97, pp.480-484, Guimaraes, Portugal, 1997.
- [35] S.Bolognani, M.Zigliotto, K.Unterkofler, "Soft-starting Techniques for Capacitor-run Single-phase Induction Motors", Proceedings of 8th IEE International Conference on Electrical Machines and Drives, EMD'97, pp.41-45, Cambridge, UK, 1997.
- [36] N.Bianchi, S.Bolognani, M.Zigliotto, M.Zordan "Influence of the Current Control Strategy on the PMSM Drive Performance During Failures", in 7th European Conference on Power Electronics and Applications, EPE'97, pp.1330-1335, Trondheim, Norway, 1997.

1998

- [37] S.Bolognani, M.Zigliotto, "Hardware and Software Effective Configurations for Multi-Input Fuzzy Logic Controllers", IEEE Transactions on Fuzzy Systems, vol.6, no.1, pp.173-179, February 1998.
- [38] S.Bolognani, M.Zigliotto, "Hardware and Software Effective Configurations for Multi-Input Fuzzy Logic Controllers", Proceedings of International Joint Conference of the Fourth IEEE International Conference on Fuzzy Systems and the Second International Fuzzy Engineering Symposium, FUZZ-IEEE/IFES'95, pp.1185-1190, Yokohama, Japan, 1995.

- [39] N.Bianchi, S.Bolognani, M.Zigliotto, "Optimised Design of a Double-Cage Induction Motor by Fuzzy Artificial Experience and Finite Element Analysis", Proceedings of International Conference on Electrical Machines, ICEM'98, pp.203-208, Instambul, Turkey, 1998.
- [40] S.Bolognani, M.Zigliotto, M.Zordan, "Rotor Position Detection for Sensorless PM Synchronous Motor Drives", Proceedings of International Power Electronics and Motion Control Conference, PEMC'98, pp.883-888, Prague, Czech Republic, 1998.
- [41] A.M.Trzynadlowski, M.Zigliotto, "Effective Random Space Vector Modulation for EMI reduction in Low-Cost PWM Inverters", Proceedings of IEE International Conference on Power Electronics and Variable Speed Drives, PEVD'98, pp.163-168, London, UK, 1998.
- [42] S.Bolognani, M.Zigliotto, M.Zordan, "DSP-Based On-Line Tracking of Rotor Resistance for Indirect Field-Oriented Drives", Proc. of 2nd DSP Education and Research Conference, ESIEE'98, pp.238-243, Paris, France, 1998.
- [43] S.Bolognani, M.Zordan, M.Zigliotto, "High Performance PMSM Sensorless Drive based on Stochastic Filtering", Proceedings of IEEE International Conference on Power Electronics Drives and Energy Systems for Industrial Growth, PEDES '98, DOI: 10.1109/PEDES.1998.1330662, Scopus: 2-s2.0-84870852394, ISBN: 0-7803-4879-6, pp.562-567, Perth, Western Australia, 1998.
- [44] A.M.Trzynadlowski, M.Zigliotto, S.Bolognani, M.M.Bech, "Reduction of the Electromagnetic Interference Conducted to Mains in Inverter-Fed AC Drives Using Random Pulse Width Modulation", Conference Records of IEEE Industry Application Society, IAS'98, pp.739-744, S.Louis, USA, 1998.

1999

- [45] S.Bolognani, R.Oboe, M.Zigliotto, "Sensorless Full-Digital PMSM Drive With EKF Estimation of Speed and Rotor Position", IEEE Transactions on Industrial Electronics, vol.46, no.1, pp.1-8, February 1999.
- [46] M.M. Bech, A.M.Trzynadlowski, M.Zigliotto, "PWM Inverters - Random Pulse Modulation Quites Motors, Reduces EMI", PCIM Journal, pp.55-58, February 1999.
- [47] A.Di Bella, A.Venturato, M.Zigliotto, "Riduzione dell'emissione acustica di un motore asincrono mediante modulazione della frequenza di commutazione dell'inverter", Atti del XXVII Convegno Nazionale di Acustica, AIA'99, pp.621-624, Genova, Italia, 1999.
- [48] S.Bolognani, K.Unterkofler, M.Zigliotto, M.Zordan, "Computer-Aided Commissioning of Electrical Drives for Two-Mass-Systems with Mechanical Imperfections", Proceedings of IEEE International Symposium on Industrial Electronics, ISIE'99, pp.1339-1344, Bled, Slovenia, 1999.
- [49] S.Bolognani, A.Di Bella, M.Zigliotto, "Random Modulation and Acoustic Noise Reduction: a Case Study", Proceedings of IEE International Conference on Electrical Machines and Drives, EMD'99, pp.137-141, Canterbury, UK, 1999.
- [50] S.Beineke, S.Bolognani, N.Fröhleke, K.Unterkofler, H.Wertz, M.Zigliotto, M.Zordan, "Computer Aided Commissioning of Speed and Position Control for Electrical Drives with Identification of Mechanical Load", Conference Records of IEEE Industry Application Society, IAS'99, pp.2372-2379, Phoenix, USA, 1999.

2000

- [51] S.Bolognani, A.Venturato, M.Zigliotto, "Effetto della modulazione Random nei disturbi condotti in rete da un inverter trifase di tensione", Atti del XI Seminario Interattivo su "Azionamenti elettrici con controllo a microprocessore", pp.41-59, Bressanone, Italia, 2000.

- [52] S.Bolognani, A.Venturato, M.Zigliotto, "Theoretical and Experimental Comparison of Speed Controllers for Elastic Two-Mass-Systems", Proceedings of 31th Power Electronics Specialists Conference, PESC 2000, pp.1087-1092, Gallway, Ireland, 2000.
- [53] S.Bolognani, A.Venturato, M.Zigliotto, "Novel Control Technique for High-Performance Diesel-Driven AC Generator-Sets", Proceedings of IEE International Conference on Power Electronics and Variable Speed Drives, Scopus: 2-s2.0-0033657754, ISSN: 05379989, PEVD 2000, pp.518-523 , London, UK, 2000.
- [54] S.Bolognani, M.Rashed, P.Vas, M.Zigliotto, M.Zordan, "Field-Weakening Vector Controlled and DTC PMSM Drives, a Comparative Analysis", Proceedings of IEE International Conference on Power Electronics and Variable Speed Drives, PEVD 2000, pp.493-499, London, UK, 2000.
- [55] N.Bianchi, S.Bolognani, M.Zigliotto, "Design and Development of a PM Synchronous Motor Drive for an Electrical Scooter", Proceedings of International Conference on Electrical Machines, ICEM 2000, pp.1295-1299, Helsinki, Finland, 2000.
- [56] S.Bolognani, P.Vas, M.Zigliotto, M.Zordan, "Field-Weakening in High-Performance PMSM Drives: a Comparative Analysis", Conference Records of IEEE Industry Application Society, IAS 2000, pp.1718-1724, Rome, Italy, 2000.
- [57] S.Bolognani, M.Zigliotto, M.Zordan, "Experimental Fault-Tolerant Control of a PMSM Drive", IEEE Transactions on Industrial Electronics, vol.47, no.5, pp.1134-1141, October 2000.
- [58] S.Bolognani, M.Zigliotto, M.Zordan, "Experimental Fault-Tolerant Control of a PMSM Drive", Proceedings of IEEE International Conference on Industrial Electronics, Control and Instrumentation, IECON'98, pp.492-497, Aachen, Germany, 1998.

2001

- [59] S.Bolognani, M.Zordan, M.Zigliotto, "Extended-Range PMSM Sensorless Speed Drive Based on Stochastic Filtering", IEEE Transactions on Power Electronics, DOI: 10.1109/63.903995, WOS:000167074100013, ISSN: 0885-8993, Scopus: 2-s2.0-0035066043, vol.16, no.1, pp.110-117, January 2001.
- [60] N.Bianchi, S.Bolognani, S.Cervaro, L.Malesani, M.Zigliotto "Brushless Motor Drives for Ventilation", National Scientific Research Program #9809322667 Final Report, "Electrical Drives Adopting Motors of the Synchronous Type for Commercial/Residential and Industrial Applications", CLEUP Ed. – Padova maggio 2001, Cod.Lib. 193-2, Pt.3, pp.1-22.
- [61] N.Bianchi, S.Bolognani, M.Zigliotto, "High-Performance PM Synchronous Motor Drive for an Electrical Scooter", IEEE Transactions on Industry Applications, vol.37, no.5, pp.1348-1355, Sept./Oct.2001.
- [62] N.Bianchi, S.Bolognani, M.Zigliotto, "High Performance PM Synchronous Motor Drive for an Electrical Scooter", Conference Records of IEEE Industry Application Society, IAS 2000, pp.1901-1908, Rome, Italy, 2000.
- [63] A.M.Trzynadlowski, M.M. Bech, F.Blaabjerg, J.Pedersen, R.L.Kirlin, M.Zigliotto, "Optimization of Switching Frequencies in the Limited-Pool Random Space Vector PWM Strategy for Inverter-Fed Drives", IEEE Transactions on Power Electronics, vol.16, no.6, pp.852-857, November 2001.
- [64] M.M. Bech, A.M.Trzynadlowski, M.Zigliotto, "Optimization of Switching Frequencies in the Limited-Pool Random Space Vector PWM Technique for Inverter-Fed Drives", Proceedings of IEEE Annual Applied Power Electronics Conference, APEC '99, pp.1013-1018, Dallas, Texas, USA, 1999.

2002

- [65] S.Bolognani, L.Tubiana, M.Ziglotto, "Azionamento sensorless per motori brushless - Aspetti realizzativi e taratura", Atti del XII Seminario Interattivo su "Azionamenti elettrici – Evoluzione tecnologica e problematiche emergenti", pp.109-146, Bressanone, Italia, 2002.
- [66] S.Bolognani, M. Zigliotto, "Self-Commissioning Compensation of Inverter Non-Idealities for Sensorless AC Drives Applications", Proceedings of IEE International Conference on Power Electronics Machines and Drives, PEMD'02, pp.30-37, Bath, UK, 2002.
- [67] S.Bolognani, M. Zigliotto, "Full-Digital Predictive Hysteresis Current Control for Switching Losses Minimisation in PMSM Drives", Proceedings of IEE International Conference on Power Electronics Machines and Drives, PEMD'02, pp.61-67, Bath, UK, 2002.
- [68] M.Zordan, P.Vas, M.Rashed, C.H.Ng, S.Bolognani, M.Zigliotto, "Field-Weakening in High Performance PMSM Drives", International Journal for Computation and Mathematics in Electrical and Electronic Engineering, COMPEL, ISSN 0332-1649, pp.338-354, vol.21, no.2, 2002.
- [69] S.Bolognani, M. Zigliotto, "A Space-Vector Approach to the Analysis and Design of Three-phase Current Controllers", Proceedings of IEEE International Symposium on Industrial Electronics, ISIE'02, IEEE Catalog No.02TH8606C, ISBN:0-7803-7370-7, L'Aquila, Italy, 2002.
- [70] S.Bolognani, M.Zigliotto, "Essentials of IM Parameters Measurement for FOC Drives Tuning", CD-ROM Proceedings of International Conference on Electrical Machines, ICEM'02, Bruges, Belgium, 2002.
- [71] N.Bianchi, S.Bolognani, M.Zigliotto, "Time Optimal Current Control For PMSM Drives", Proceedings of IEEE International Conference on Industrial Electronics, Control and Instrumentation, IECON'02, IEEE Catalog No.02CH37363C, ISBN:0-7803-7475-4, Sevilla, Spain, 2002.
- [72] N.Bianchi, S.Bolognani, M.Zigliotto, "Electric Motors for the Growth of the Drive Applications", Invited Paper, CD-ROM Proceedings of 10th International Conference on Power Electronics and Motion Control, EPE-PEMC'02, Dubrovnik, Croatia, 2002.

2003

- [73] S.Bolognani, L.Tubiana, M.Zigliotto, "Sensorless control of PM Synchronous Motors with non-Sinusoidal Back EMF for Home Appliances", Proceedings of IEEE International Machines and Drives Conference, IEMDC'03, IEEE Catalog No.03EX679C, ISI: 000183794800282, Scopus: 2-s2.0-28444444974, ISBN:0-7803-7818-0, pp.1882-1888, Madison, WI, USA, 2003.
- [74] S.Berto, S.Bolognani, M.Ceschia, A.Paccagnella, M.Zigliotto, " FPGA-Based Random PWM with Real-Time Dead Time Compensation ", Proceedings of IEEE Annual Applied Power Electronics Conference, PESC '03, IEEE Catalog No.03CH37427C, ISBN:0-7803-7755-9, pp.513-518, Acapulco, Mexico, 2003.
- [75] N.Bianchi, S.Bolognani, M.Zigliotto, M.Zordan, "Innovative Remedial Strategy for Inverter Faults in IPM Synchronous Motor Drives", IEEE Transactions on Energy Conversion, vol.18, no.2, pp.306-314, June 2003.
- [76] N.Bianchi, S.Bolognani, M.Zigliotto, M.Zordan, "Innovative Remedial Strategy for Inverter Faults in IPM Synchronous Motor Drives", presented at 28th Power Electronics Specialists Conference, PESC'97, St.Louis, USA, 1997.

- [77] S.Bolognani, L.Tubiana, M.Zigliotto, "EKF-based Sensorless IPM Synchronous Motor Drive for Flux-Weakening Applications", IEEE Transactions on Industry Applications, vol.39, no.3, pp.768-775, May/June 2003.
- [78] S.Bolognani, L.Tubiana, M.Zigliotto, "EKF-based Sensorless IPM Synchronous Motor Drive for Flux-Weakening Applications", Conference Records of IEEE Industry Application Society, IAS 2002, IEEE Catalog No.02CH37344C, ISBN:0-7803-7421-5, Pittsburg, USA, 2002.
- [79] S.Bolognani, L.Tubiana, M.Zigliotto, "High Dynamic PMSM Current Control by Optimal Saturation Management of Current Regulators", Proceedings of IEEE International Conference on Industrial Electronics, Control and Instrumentation, IECON'03, IEEE Catalog No.03CH37468C, ISBN:0-7803-7907-1, pp.1261-1266, Roanoke, Virginia, USA, 2003.
- [80] S.Bolognani, L.Tubiana, M. Zigliotto, "Extended Kalman Filter Tuning in Sensorless PMSM Drives", IEEE Transactions on Industry Applications, vol.39, no.6, pp.1741-1747, November-Dicember 2003.
- [81] S.Bolognani, L.Tubiana, M. Zigliotto, "Extended Kalman Filter Tuning in Sensorless PMSM Drives", Proceedings of Power Conversion Conference, PCC'02, pp.276-281, Osaka, Japan, 2002.
- [82] I.Bagiacchi, S. Berto, S. Bolognani, M. Ceschia, A. Paccagnella, M.Zigliotto, "Potentials and Pitfalls of FPGA Application in Inverter Drives - A Case Study", IEEE International Conference on Industrial Technology, ICIT'03, pp.500-505, Maribor, Slovenia, 2003.

2004

- [83] S. Berto, S. Bolognani, M. Ceschia, P.Mattavelli, A. Paccagnella, M.Zigliotto, " Improved FPGA-Based Dead Time Compensation for SVM Inverters", IEE International Conference on Power Electronics, Machines and Drives, PEMD'04, pp.662-667, Edimburg, Scotland, 2004.
- [84] N.Bianchi, S.Bolognani, M.Zigliotto, "New Perspectives for Electrical Motors in Adjustable Speed Drives", EPE Journal, Special Issue on Electrical machines, vol.14, no.1, pp.6-11, February 2004.
- [85] S.Bolognani, L.Tubiana, M.Tomasini, M.Zigliotto, "DSP-based Time Optimal Current Control for High Dynamic IPM Motor Drives", Proceedings of IEEE Power Electronics Specialists Conference, PESC '04, IEEE Catalog No.04CH37551C, pp.2197-2203, ISBN:07803-8400-8, Aachen Germany, 2004.
- [86] S.Bolognani, M.Ceschia, M.Tomasini, L.Tubiana, M.Zigliotto, "FPGA Implementation of a Recursive Algorithm for Time Optimal Control of AC Drives", (Invited Paper) 11th International Conference on Power Electronics and Motion Control, EPE-PEMC'04, Riga, Latvia, ISBN 9984-32-010-3, CD-ROM, 2004.
- [87] S.Bolognani, L.Tubiana, M.Zigliotto, "V-Type Sensorless Field Oriented Control of Induction Motors for Low Cost Applications", Proceedings of 11th International Conference on Power Electronics and Motion Control, EPE-PEMC'04, Riga, Latvia, ISBN 9984-32-010-3, CD-ROM, 2004.
- [88] N.Bianchi, S.Bolognani, M.Zigliotto, "Experiences on the Design and Control of PMSM Drives for Light Traction Applications", Proceedings of IEEE Vehicular Power and Propulsion International Symposium, VPP'04, Paris, France, CDROM, October 2004.

2005

- [89] S.Bolognani, M.Tomasini, M.Zigliotto, "Development of a Steer-by-Wire System with Direct Drive Torque Feedback", Proceedings of International PCIM Conference, Nürberg, Germany, CDROM, June 2005.

- [90] S.Bolognani, M.Tomasini, M.Zigliotto, "Control Design of a Steer-by-Wire System with High Performance PM Motor Drives", Proceedings of IEEE Power Electronics Specialists Conference, PESC '05, No.05CH37659C, pp.1839-1844, ISBN:0-7803-9034-2, Recife, Brasil, 2005.
- [91] N.Bianchi, S.Bolognani, M.Zigliotto, "Design Hints of an IPM Synchronous Motor for an Effective Position Sensorless Control", Proceedings of IEEE Power Electronics Specialists Conference, PESC '05, IEEE Catalog No.05CH37659C, pp.1560-1566, ISBN:0-7803-9034-2, Recife, Brasil, 2005.
- [92] S.Bolognani, M.Tomasini, L.Tubiana, M.Zigliotto, "Start-up Strategy for a Sensorless Direct Drive PM Generator for Wind Turbines", Proceedings of IEEE International Symposium on Industrial Electronics, ISIE'05, IEEE Catalog No.05TH8778C, pp.1801-1806, ISBN:0-7803-8739-2, Dubrovnik, Croatia, 2005.
- [93] S.Bolognani, D.Ciscato, M.Tomasini, M.Zigliotto, "Virtual Mechanical Load Setup for Steer-by-Wire - a Case Study", Proceedings of IEEE International Symposium on Industrial Electronics, ISIE'05, IEEE Catalog No.05TH8778C, pp.1795-1801, ISBN:0-7803-8739-2, Dubrovnik, Croatia, 2005.
- [94] P.Mattavelli, L.Tubiana, M.Zigliotto, "Simple Control Autotuning for PMSM Drives based on Feedback Relays", in 11th European Conference on Power Electronics and Applications, EPE 2005, IEEE Catalog No.05EK1132C, ISBN:90-75815-08-5, Dresden, Germany, 2005.
- [95] A.Benedetti, N.Bianchi, S.Bolognani, M.Dai Prè, P.G.Molari, M.Tomasini, L.Tubiana, M.Zigliotto, "PM Motor Drives for Steer-by-Wire Applications", Conference Records of IEEE Industry Application Society, IAS 2005, IEEE Catalog No.05CH37695C, ISSN: 0197-2618, pp. 2857-2864, Hong Kong, PRC, 2005.
- [96] S.Bolognani, M.Tomasini, L.Tubiana, M.Zigliotto, "Design and Implementation of a Minimum-Time Torque Control for IPM Motor Drives", Conference Records of IEEE Industry Application Society, IAS 2005, IEEE Catalog No.05CH37695C, ISSN: 0197-2618, pp. 304-310, Hong Kong, PRC, 2005.
- [97] P.Mattavelli, L.Tubiana, M.Zigliotto, "Torque Ripple Reduction in PM Synchronous Motor Drives Using Repetitive Current Control", IEEE Transactions on Power Electronics, IEEE Transactions on Power Electronics, Vol.20, No.6, pp.1423-1431, November 2005.

2006

- [98] L.Peretti, M.Zigliotto, "A Force Feedback System for Steer-by-Wire Applications Based on Low-Cost MR-Fluids", IEEE International Conference on Power Electronics, Machines and Drives, PEMD'06, ISBN 0-86341-618-7, pp.469-473, Dublin, Ireland, 2006.
- [99] C.Bernard, S.Bolognani, L.Peretti, M.Zigliotto, "Steering Chain HIL Simulator for Steer-by-Wire Systems", (Invited Paper) 12th International Conference on Power Electronics and Motion Control, EPE-PEMC'06, Portoroze, Croatia, ISBN 1-4244-0121-6, IEEE Catalog No.06EX1282C, CD-ROM, 2006.
- [100] S.Bolognani, L.Peretti, L.Sgarbossa, M.Zigliotto, "Influence of the PWM Modulation Technique in Power Line Communication for Electric Drives", Proceedings of IEEE International Conference on Industrial Electronics, Control and Instrumentation, IECON'06, IEEE Catalog No.06CH37763C, ISBN: 1-4244-0136-4, pp.2307-2312, Paris, France, 2006.
- [101] P.Mattavelli, S.Saggini, W.Stefanutti, D.Trevisan, M.Zigliotto, "Limited-Pool Random Carrier-Frequency Pulse Width Modulation for Digitally Controlled DC-DC Converters", Proceedings of IEEE International Conference on Industrial Electronics, Control and Instrumentation, IECON'06, IEEE Catalog No.06CH37763C, ISBN: 1-4244-0136-4, Paris, France, 2006 (*Best paper award*).

2007

- [102] F.Blanchini, F.Miani, L.Tubiana, U.Viaro, M.Zigliotto, "A Minimum–Time Control Strategy for Permanent-Magnet AC Motor Torque Tracking", *Automatica*, Vol.43, Issue 3, pp.505-512, March 2007.
- [103] F.Blanchini, F.Miani, L.Tubiana, U.Viaro, M.Zigliotto, "A Minimum–Time Control Strategy for Permanent-Magnet AC Motor Torque Tracking", 16th IFAC World Congress, DVD, Praha, Czech Republic, October 2005.
- [104] S.Bolognani, L.Peretti, M.Zigliotto, "Inverter Non-Idealities Override by Repetitive Control", Proceedings of IEEE International Machines and Drives Conference, IEMDC'07, IEEE Catalog No.07EX1597C, ISBN 1-4244-0743-5, pp.71-76, Antalya, Turkey, 2007.
- [105] L.Peretti, R.Petrella, M.Tursini, M.Zigliotto, "Speed Measurement Algorithms for Low-Resolution Incremental Encoders Equipped Drives: a Comparative Analysis", International Aegean Conference on Electrical Machines and Power Electronics, IEEE-ACEMP'07, ISBN 978-975-93410-2-2, pp.780-787, Bodrum, Turkey, 2007.
- [106] S.Bolognani, L.Peretti, M.Zigliotto, "A Novel Open-Loop Speed Estimation Technique for Low-Cost IM Drives", International Aegean Conference on Electrical Machines and Power Electronics, IEEE-ACEMP'07, ISBN 978-975-93410-2-2, pp.754-759, Bodrum, Turkey, 2007.
- [107] S.Bolognani, L.Peretti, M.Zigliotto, "High Dynamic Electromagnetic Conversion Model for PMSM Drives", Proceedings of IEEE International Conference on Industrial Electronics, Control and Instrumentation, IECON'07, IEEE Catalog No.07CH37855D, ISBN:1-4244-0783-4, pp.1003-1008, Taipei, Taiwan, 2007.

2008

- [108] R.Berto, S.Bolognani, L.Peretti, M.Zigliotto, "A Novel Commissioning Procedure for High Accuracy Torque Estimation in PMSM Drives", Atti del 19° Seminario Interattivo su "Azionamenti elettrici – Evoluzione tecnologica e problematiche emergenti", pp.254-272, Bressanone, Italia, 3-4 March 2008.
- [109] N.Bianchi, S.Bolognani, L.Peretti, M.Dai Prè, M.Zigliotto, "The steering effect - PM Motor Drives for Automotive Systems", IEEE Industry Application Magazines, ISSN 1077-2618, vol.14, no.2, pp.40-48, March-April 2008.
- [110] L.Peretti, M.Zigliotto, "Repetitive Control and Virtual Bleeder Resistor for AC Generator Sets with Harmonic-Sensitive Loads", IEE International Conference on Power Electronics, Machines and Drives, PEMD'08, ISBN 978-0-86341-900-3, Scopus:2-s2.0-67449100481, pp.144-149, York, UK, 2008.
- [111] S.Bolognani, L.Peretti, M.Zigliotto, "Evolution of a V-type Sensorless Induction Motor Drive with Inherent Flux-Weakening Capability", IEE International Conference on Power Electronics, Machines and Drives, PEMD'08, ISBN 978-0-86341-900-3, pp.465-469, York, UK, 2008.
- [112] S.Bolognani, L.Peretti, M.Zigliotto, "Parameter Sensitivity Analysis of an Improved Open-Loop Speed Estimate for Induction Motor Drives", IEEE Transactions on Power Electronics, Volume 23, No. 4, pp.2127-2135, July 2008.
- [113] S.Bolognani, L.Peretti, M.Zigliotto, "Repetitive Control Based Self-Commissioning Procedure for Inverter Non-Idealities Compensation", IEEE Transactions on Industry Applications, Vol.44, No.5, pp.1587-1596, September-October 2008.

- [114] S.Bolognani, S.G.Bolognani, L.Peretti, M.Zigliotto, "Combined speed and current Model Predictive Control with inherent field-weakening features for PMSM Drives", Proceedings of 14th IEEE Mediterranean Electrotechnical Conference, MELECON'2008, DOI 10.1109/MELCON.2008.4618480 pp. 472 – 478, Ajaccio.
- [115] S.Bolognani, A.Faggion, L.Peretti, M.Zigliotto, "Parameter sensitivity analysis of two low-cost sensorless induction motor drives", Proceedings of IEEE Power Electronics Specialists Conference, PESC '08, IEEE Catalog No.CPF08POE-CDR, ISBN:978-1-4244-1668-4, Scopus:2-s2.0-52349110990, pp.43-49, Rodi, Greece, June 2008.

2009

- [116] S.Bolognani, S.G.Bolognani, L.Peretti, M.Zigliotto, "Design and Implementation of Model Predictive Control for Electrical Motor Drives", Invited Paper at Special Session on IEEE Transactions on Industrial Electronics, Vol.56, No.6, pp.1925-1936, DOI 10.1109/TIE.2008.2007547, June 2009.
- [117] L.Peretti, M.Zigliotto, "Identification of mechanical load for electrical drives commissioning - Labelling machine case study", International IEEE Conference Devoted to the 150-Anniversary of Alexander S Popov, IEEE Region 8 Conference, EUROCON'09, IEEE Catalog Number CFP09EUR-CDR, ISBN: 978-1-42443861-7, Scopus: 2-s2.0-70449632633, WOS:000272589500130, DOI: 10.1109/EURCON.2009.5167725, Green Open Access, pp. 793-803, St.Petersburg, Russia, 18 May 2009.

2010

- [118] S.Bolognani, L.Peretti, M.Zigliotto, E.Bertotto, "Commissioning of Electromechanical Conversion Models for High Dynamic PMSM Drives", IEEE Transactions on Industrial Electronics, ISSN 0278-0046, DOI 10.1109/TIE.2010.2042317, Vol.57, No.3, pp.986-993, March 2010.
- [119] A.Costabeber, P.Mattavelli, L.Peretti, M.Zigliotto, "A Speed Loop Autotuning Method Based on Signal Injection for Electrical Drives", IET International Conference on Power Electronics, Machines and Drives, PEMD'10, ISBN 978-1-84919-231-6, ISSN 0537-9989, Brighton, UK, April 2010.
- [120] K.Sakata, H.Fujimoto, L.Peretti, M.Zigliotto, "Enhanced Speed and Current Control of PMSM Drives by Perfect Tracking Algorithms", Proc. of International Power Electronics Conference, IPEC'10, DOI 10.1109/IPEC.2010.5543320, pp.587-592, Sapporo, Japan, July 2010.
- [121] L.Peretti, M.Zigliotto, "FPGA-Based Voltage Measurements in AC Drives", International Conference on Electrical Machines, ICEM'10, CD-ROM ISBN: 978-1-4244-4175-4, pp.1-6, Rome, Italy, September 2010.

2011

- [122] S.Bolognani, L.Peretti, M.Zigliotto, "On-Line MTPA Control Strategy for DTC Synchronous Reluctance Motor Drives", IEEE Transactions on Power Electronics (IF 4.65), Scopus 2-s2.0-78650971352, ISI 000285843000003, ISSN 0885-8993, DOI 10.1109/TPEL.2010.2050493, Vol.26, No.1, pp.20-28, January 2011.
- [123] S. Vitturi, L. Peretti, L. Seno, M. Zigliotto, C. Zunino, "Real-time Ethernet Networks for Motion Control", *Journal of Computer Standards & Interfaces* (IF 1.257), Scopus 2-s2.0-79955606496, ISI 000291715100003, ISSN 0920-5489, Vol. 33, Issue 5, September 2011, pp. 465-476.

- [124] M.Carraro, M.Zigliotto, "Hierarchical Real Time Predictive Control of PMSM Drives", 1st Workshop on Predictive Control of Electrical Drives and Power Electronics, PRECEDE 2011, Scopus 2-s2.0-82955197363, ISBN: 978-1-4577-1912-7, DOI: 10.1109/PRECEDE.2011.6078680, pp.3-9, Munich, Oct.14-15, 2011.

2012

- [125] L.Peretti, M.Zigliotto, "Automatic Procedure for Induction Motors Parameters Estimation at Standstill", IET Electric Power Applications (IF 1.562), Scopus 2-s2.0-84859757179, ISI 000302786000002, ISSN: 1751-8660, DOI:10.1049/iet-epa.2010.0262, Vol.6, No.4, pp.214-224, 2012.
- [126] L.Peretti, M.Zigliotto, "Combined Current/Voltage Model with Inductance Mismatch Compensation for On-line Estimation of Flux Linkages in Permanent Magnet and Synchronous Reluctance Motor Drives", IET International Conference on Power Electronics, Machines and Drives, PEMD'12, Scopus 2-s2.0-84864643324, ISBN 978-1-84919-616-1, ISSN 0537-9989 Ref. PEP0592U, Bristol, UK, 27-29 March 2012.
- [127] R.Antonello, M.Carraro, M.Zigliotto, "Towards the automatic tuning of MTPA algorithms for IPM motor drives", XX International Conference on Electrical Machines, ICEM'12, Scopus 2-s2.0-84870810058, ISI 000333806701016, CD-ROM, DOI:10.1109/ICEMMach.2012.6350016, pp.1121-1127, Marseille, France, Sept. 2012.
- [128] M.Carraro, F.Tinazzi, M.Zigliotto, "A Novel Approach to Torque Estimation in IPM Synchronous Motor Drives", Proceedings of IEEE International Conference on Industrial Electronics, Control and Instrumentation, IECON'12, Scopus 2-s2.0-84872977448, ISI 000316962904093, ISSN 1553-572X, DOI: 10.1109/IECON.2012.6389499, ISBN: 978-1-4673-2420-5, pp.4619-4623, Montreal, Canada, 2012.
- [129] R.Antonello, M.Carraro, M.Zigliotto, "Theory and implementation of a MTPA tracking controller for anisotropic PM motor drives", Proceedings of IEEE International Conference on Industrial Electronics, Control and Instrumentation, IECON'12, DOI:10.1109/IECON.2012.6388741, Scopus 2-s2.0-84872966373, ISI 000316962902004, ISBN: 978-1-4673-2420-5, ISSN 1553-572X, pp.2051-2056, Montreal, Canada, 2012.

2013

- [130] M.Carraro, F.Tinazzi, M.Zigliotto, "The influence of the squirrel cage rotor in the estimation of the IM flux linkage at standstill", 2013 IEEE International Conference on Industrial Technology, ICIT 2013, Scopus 2-s2.0-84877635518, ISI 000322785200063, DOI: 10.1109/ICIT.2013.6505707, ISBN:978-1-4673-4568-2, pp.410-415, Cape Town, South Africa, February 25-27, 2013.
- [131] M.Carraro, F.Tinazzi, M.Zigliotto, "Estimation of the direct-axis inductance in PM synchronous motor drives at standstill", 2013 IEEE International Conference on Industrial Technology, ICIT 2013, Scopus 2-s2.0-84877616937, ISI 000322785200048, DOI: 10.1109/ICIT.2013.6505691, ISBN:978-1-4673-4568-2, pp.313-318, Cape Town, South Africa, February 25-27, 2013.
- [132] R.Antonello, M.Carraro, F.Tinazzi, M.Zigliotto, "Parametric identification of PM synchronous motors: a Hammerstein-model approach", IEEE International Conference on Mechatronics, ICM 2013, Scopus 2-s2.0-84879379837, ISI 000324299300027, ISBN: 978-1-4673-1387-2, pp. 174-179, February 27- March 1, Vicenza, Italy, 2013.

- [133] **M.Carraro**, A.Costabeber, M.Zigliotto, "Convergence analysis and tuning of ripple correlation based MPPT: A sliding mode approach", 15th European Conference on Power Electronics and Applications, EPE'13 ECCE Europe, Scopus 2-s2.0-84890133354, DOI 10.1109/EPE.2013.6631909, pp.1-10, Lille, France, September 2-6, 2013.

2014

- [134] R.Antonello, M.Carraro, M.Zigliotto, "Maximum-Torque-Per-Ampere Operation of Anisotropic Synchronous Permanent-Magnet Motors Based on Extremum Seeking Control", IEEE Transactions on Industrial Electronics, Scopus 2-s2.0-84897454321, ISI 000333467900065, ISSN: 0278-0046, DOI 10.1109/TIE.2013.2278518, Vol.61, No.9, pp.5086-5093, September 2014.
- [135] **M.Carraro**, M.Zigliotto, "Automatic Parameter Identification of Inverter-Fed Induction Motors at Standstill", IEEE Transactions on Industrial Electronics, Scopus 2-s2.0-84897465203, ISI WOS:000333467900014, ISSN: 0278-0046, DOI 10.1109/TIE.2013.2289903, Vol.61, No.9, pp.4605-4613, September 2014.
- [136] **M.Carraro**, L.Peretti, M.Zigliotto, "FPGA-based Hierarchical Finite-States Predictive Control for PMSM drives", 7th IET International Conference on Power Electronics, Machines and Drives (PEMD 2014), Scopus 2-s2.0-84907415874, DOI:10.1049/cp.2014.0309, E-ISBN: 978-1-84919-815-8, pp.1-6, Manchester, UK, April 8-10, 2014.
- [137] M.Carraro, A.Costabeber, M.Zigliotto, "A fast-MPPT low-complexity autonomous PV water pumping scheme for PMSM", 3rd Renewable Power Generation Conference (RPG), Scopus 2-s2.0-84912143475, DOI: 10.1049/cp.2014.0834, pp.1-6, Naples, Italy, September 24-25, 2014.

2015

- [138] L.Peretti, G.Zanuso, M.Zigliotto, "Permanent magnet synchronous machines flux linkage estimation with zero steady-state error and its field-programmable gate array implementation", IET Electric Power Applications, ISI:000353210600005, Scopus 2-s2.0-84928340332, ISSN: 1751-8660, DOI:10.1049/iet-epa.2014.0241, Vol.9, No.4, pp.332-343, April 2015.
- [139] A.Gaeta, F.Tinazzi, P.Zanchetta, M.Zigliotto, "Advanced self-commissioning and feed-forward compensation of inverter non-linearities", 2015 IEEE International Conference on Industrial Technology, ICIT 2015, DOI: 10.1109/ICIT.2015.7125067, ISBN: 9781479978014, Scopus: 2-s2.0-84937679473, pp.610-616, Sevilla, Spain, March 17-19, 2015.
- [140] R.Antonello, F.Tinazzi, M.Zigliotto, "Energy efficiency measurements in IM: the non-trivial application of the norm IEC 60034-2-3:2013", 2nd IEEE Workshop on Electrical Machines Design, Control and Diagnostics, IEEE WEMDCD'2015, DOI: 10.1109/WEMDCD.2015.7194537, ISBN: 9781479988990, pp.248-253, Torino, Italy, March 26-27, 2015.
- [141] M.Carraro, A.Costabeber, M.Zigliotto, "Convergence Analysis and Tuning of a Sliding-Mode Ripple-Correlation MPPT", IEEE Transactions on Energy Conversion, DOI 10.1109/TEC.2014.2371873, ISSN 0885-8969, ISI: 000354864300030, Scopus: 2-s2.0-84930204876, Vol.30, No.2, pp. 696-706, June 2015.
- [142] **F.Tinazzi**, M.Zigliotto, "Torque Estimation in High-Efficiency IPM Synchronous Motor Drives", IEEE Transactions on Energy Conversion, DOI 10.1109/TEC.2015.2408214, ISSN: 0885-8969 ISI: 000360439300018, Scopus: 2-s2.0-84939786382, Vol.30, No.3, pp. 983-990, Sept. 2015.

- [143] M. Zigliotto, "*Permanent magnet synchronous motor drives*" in Power Electronic Converters and Systems - Frontiers and applications, 1st Ed., A.M.Trzynadlowski, London, UK: IET Power and Energy Series, ISBN: 978-1-84919-826-4, pp.313-332, 2015.
- [144] R.Antonello, F.Tinazzi, M.Zigliotto, "Benefits of Direct Phase Terminal Voltage Measurement for the Rotor Initial Position Detection in Permanent Magnet Sensorless Drives", IEEE Transactions on Industrial Electronics, DOI: 10.1109/TIE.2015.2448514, ISSN: 0278-0046, ISI: 000362760300007, Vol.62, No.11, pp.6719-6726, Nov.2015.

2016

- [145] A.Boglietti, A.Cavagnino, M. Cossale, F. Tinazzi, M. Zigliotto, "Energy Efficiency Assessment for Inverter-fed Induction Motors", 8th IET International Conference on Power Electronics, Machines and Drives (PEMD 2016), DOI: 10.1049/cp.2016.0356, ISBN: 978-1-78561-188-9, Scopus:2-s2.0-85009064294, Code 124392, pp.1-6, Glasgow, UK, April 19-22, 2016.
- [146] R.Antonello, M.Carraro, L.Peretti, M.Zigliotto, "Hierarchical Scaled-States Direct Predictive Control of Synchronous Reluctance Motor Drives", IEEE Transactions on Industrial Electronics, Special Issue on Predictive Control, Invited Paper, DOI: 10.1109/TIE.2016.2536581, ISSN: 0278-0046, Scopus:2-s2.0-84978771312, Article number 7422826, ISI:000384641300052, Vol.63, No.8, pp. 5176 - 5185, August 2016.
- [147] L. Ortombina, F.Tinazzi, M.Zigliotto, "Enhanced low-speed operations of back EMF-based sensorless anisotropic PMSM drives", Proceedings of IEEE International Conference on Industrial Electronics, Control and Instrumentation, IECON'16, DOI: 10.1109/IECON.2016.7794056, ISBN: 978-1-5090-3474-1, pp.2784-2789, Firenze, Italia, 23-26 Oct. 2016.
- [148] S.Bolognani, L. Ortombina, F.Tinazzi, M.Zigliotto, "Model Sensitivity Assessment for Sensorless PM and Reluctance Motor Drives", Proceedings of IEEE International Conference on Industrial Electronics, Control and Instrumentation, IECON'16, DOI: 10.1109/IECON.2016.7793841, ISBN: 978-1-5090-3474-1, 2851 - 2856, Firenze, Italia, 23-26 Oct. 2016.
- [149] L. Ortombina, F.Tinazzi, M.Zigliotto, "Comprehensive Magnetic Modelling of Internal PM Synchronous Motors Through Radial Basis Function Networks", Proceedings of IEEE International Conference on Industrial Electronics, Control and Instrumentation, IECON'16, DOI: 10.1109/IECON.2016.7793898, ISBN: 978-1-5090-3474-1, 4319 - 4324, Firenze, Italia, 23-26 Oct. 2016.

2017

- [150] R.Antonello, M.Carraro, A.Costabeber, F.Tinazzi, M.Zigliotto, "Energy-efficient autonomous solar water-pumping system for permanent magnet synchronous motors", IEEE Transactions on Industrial Electronics, ISI:000390470600005, Scopus 2-s2.0-85007006496, ISSN: 0278-0046, DOI: 10.1109/TIE.2016.2595480, Vol.64, No.1, pp.43-51, Jan. 2017.
- [151] G.A.Longo, C.Zilio, L.Ortombina, M.Zigliotto, "Application of Artificial Neural Network (ANN) for modeling oxide-based nanofluids dynamic viscosity", International Communications in Heat and Mass Transfer, Elsevier, ISSN: 0735-1933, DOI: http://dx.doi.org/10.1016/j.icheatmasstransfer.2017.03.003, Vol.83, pp.8-14, Apr.2017.
- [152] A.Beghi, F.Marcuzzi, F.Tinazzi, M.Zigliotto, "Virtual prototyping of embedded control software in mechatronic systems: a case study", Journal of Simulation Modelling Practice and Theory, Elsevier, ISSN: 1569-190X, DOI: 10.1016/j.mechatronics.2017.03.004, Vol.43, pp.99-111, 2017.

- [153] N.Bianchi, S.Bolognani, F.Tinazzi, M.Zigliotto, "The Influence of Rotor Design on Active Flux-based Sensorless Synchronous Reluctance Motor Drives", Proc. 8th IEEE International Symposium on Sensorless Control for Electrical Drives (SLED), ISI: 000414283300002, ISSN: 2166-6725, DOI: 10.1109/SLED.2017.8078419, ISBN: 978-1-5090-6587-5, pp.7-12, Catania, Italy, 18-19 Sept. 2017
- [154] R.Antonello, L.Ortombina, F.Tinazzi, M.Zigliotto, "Online Stator Resistance Tracking for Synchronous Reluctance and Interior Permanent Magnet Motors", IEEE Energy Conversion Congress & Exposition (ECCE), DOI: 10.1109/ECCE.2017.8096970, ISBN: 978-1-5090-2998-3, pp.5861-5868, Cincinnati, Ohio, USA October 1 – 5, 2017.
- [155] L.Peretti, P.Sandulescu, F.Tinazzi, M.Zigliotto, "On the True Maximum Efficiency Operations of Synchronous Motor Drives", Proc. 12th IEEE International Conference on Power Electronics and Drive Systems (PEDS), DOI: 10.1109/PEDS.2017.8289154, ISBN: 978-1-5090-2364-6, pp. 1043-1048, Hawaii, USA, 12 - 15 Dec. 2017.
- [156] F.Tinazzi, L.Ortombina, M.Zigliotto, "Advanced Current Controls of Synchronous Reluctance Motors", Proc. 12th IEEE International Conference on Power Electronics and Drive Systems (PEDS), DOI: 10.1109/PEDS.2017.8289150, ISBN: 978-1-5090-2364-6, pp. 1037-1042, Hawaii, USA, 12 - 15 Dec. 2017.
- [157] F.Tinazzi, L.Ortombina, M.Zigliotto, "An Effective Start-up Algorithm for Synchronous Reluctance and PM Sensorless Drives", Proc. 12th IEEE International Conference on Power Electronics and Drive Systems (PEDS), DOI: 10.1109/PEDS.2017.8289167, ISBN: 978-1-5090-2364-6, pp.1062-1067, Scopus: 2-s2.0-85045265413, ISI:000426968800172, Hawaii, USA, 12 - 15 Dec. 2017.
- [158] F.Tinazzi, L.Ortombina, M.Zigliotto, "Energy-efficient stand-alone solar water-pumping system for synchronous reluctance motor", Proc. 12th IEEE International Conference on Power Electronics and Drive Systems (PEDS), DOI: 10.1109/PEDS.2017.8289164, ISBN: 978-1-5090-2364-6, Scopus:2-s2.0-85045240160, ISI: 000426968800170, pp. 1049-1054, Hawaii, USA, 12 - 15 Dec. 2017.

2018

- [159] G.A.Longo, L.Ortombina, M.Zigliotto, "Application of Artificial Neural Network (ANN) for H₂O/KCOOH (potassium formate) dynamic viscosity", International Journal of Refrigeration, Elsevier, ISSN: 0140-7007, DOI:<https://doi.org/10.1016/j.ijrefrig.2017.11.033>, Vol.86, pp.435-440, Jan. 2018.
- [160] S.Bolognani, L. Ortombina, F.Tinazzi, M.Zigliotto, "Model Sensitivity of Fundamental-frequency-based Position Estimators for Sensorless PM and Reluctance Synchronous Motor Drives", IEEE Transactions on Industrial Electronics, ISI: 000416221000008, Scopus 2-s2.0-85023165614, ISSN: 0278-0046, DOI:10.1109/TIE.2017.2716902, Vol.65, No.1, pp.77-85, Jan. 2018
- [161] F.Tinazzi, L.Ortombina, M.Zigliotto, "Magnetic Modelling of Synchronous Reluctance and Internal Permanent Magnet Motors Using Radial Basis Function Networks", IEEE Transactions on Industrial Electronics, ISI: 000418415200018, Scopus: 2-s2.0-85028979193, ISSN: 0278-0046, DOI: 10.1109/TIE.2017.2733502, Vol.65, No.2, pp.1140-1148, Feb. 2018.
- [162] F. Tinazzi, L. Ortombina, M. Zigliotto, "Enhanced Low-Speed Operations for Sensorless Anisotropic PM Synchronous Motor Drives by a Modified Back-EMF Observer", IEEE Transactions on Industrial Electronics, ISI: 000422806300023, Scopus: 2-s2.0-85029180450, ISSN: 0278-0046, DOI: 10.1109/TIE.2017.2748042, Vol.65, No.4, pp.3069-3076, April 2018.

- [163] L. Ortombina, E. Liegmann, P. Karamanakos, F. Tinazzi, M. Zigliotto and R. Kennel, "Constrained Long-Horizon Direct Model Predictive Control for Synchronous Reluctance Motor Drives," 2018 IEEE 19th Workshop on Control and Modeling for Power Electronics (COMPEL), ISBN: 978-1-5386-5541-2, Scopus: 2-s2.0-85054503298, ISI: 000455139800158, ISSN: 2151-0997, doi: 10.1109/COMPEL.2018.8460173, Padua, 2018, pp. 1-8.
- [164] L. Ortombina, F. Tinazzi, M. Zigliotto, "Online Stator Resistance Tracking for Reluctance and Interior Permanent Magnet Synchronous Motors", IEEE Transactions on Industry Applications, ISI: 000439381300039, Scopus: 2-s2.0-85044376090, ISSN: 0093-9994, DOI: 10.1109/TIA.2018.2819961, Vol.54, No.4, pp. 3405-3414, July/August 2018.
- [165] S. Bolognani, P. G. Carlet, F. Tinazzi and M. Zigliotto, "Fast and Robust Model Free Predictive Current Control for SynREL Motor Drives", 2018 IEEE Energy Conversion Congress and Exposition (ECCE), Portland, OR, doi: 10.1109/ECCE.2018.8558321, Scopus: 2-s2.0-85060282801, ISI: 000455187605125, ISSN: 2329-3721, pp. 5466-5472, Sept. 23-27, 2018.

2019

- [166] R. Antonello, L. Peretti, F. Tinazzi, and M. Zigliotto "Self-commissioning calculation of dynamic models for synchronous machines with magnetic saturation using flux as state variable". The Journal of Engineering - Institution of Engineering and Technology (IET). ISI:000472719600028, Open Access. url: <https://digital-library.theiet.org/content/journals/10.1049/joe.2018.8259>, ISI: 000472719600028, January 2019. [9th IET International Conference on Power Electronics, Machines and Drives (PEMD 2018)]
- [167] S. Bolognani, P. G. Carlet, F. Tinazzi and M. Zigliotto, "An Effective Model-Free Predictive Current Control for Synchronous Reluctance Motor Drives", IEEE Transactions on Industry Applications, doi: 10.1109/TIA.2019.2910494, Scopus:2-s2.0-85068786114, ISI: 000474562900046, vol. 55, no. 4, pp. 3781-3790, July-Aug. 2019.
- [168] F. Tinazzi, S. Bolognani, S. Calligaro, P. Kumar, R. Petrella, M. Zigliotto, "Classification and review of MTPA algorithms for synchronous reluctance and interior permanent magnet motor drives", 21st European Conference on Power Electronics and Applications, EPE'19, Genova, Italy, DOI: 10.23919/EPE.2019.8915144 Scopus: 2-s2.0-85076687745, Sept.2-6, 2019.
- [169] L. Ortombina, D. Pasqualotto, F. Tinazzi, M. Zigliotto, "Automatic Tuning Procedure at Standstill for Extended Kalman Filter in Sensorless Control of Permanent Magnet Synchronous Motors", 10th IEEE International Symposium on Sensorless Control for Electrical Drives, SLED 2019, Torino, Italy, DOI: 10.1109/SLED.2019.8896350, Scopus:2-s2.0-85075630509, ISSN: 2166-6733, Sept. 9-10, 2019
- [170] L. Ortombina, D. Pasqualotto, F. Tinazzi, M. Zigliotto, "Magnetic Model Identification for Synchronous Reluctance Motors Including Transients", IEEE Energy Conversion Congress & Exposition (ECCE), DOI: 10.1109/ECCE.2019.8913164, Scopus: 2-s2.0-85076788309, ISSN: 2329-3748, pp.3196-3202, Baltimore, Maryland, USA, Sept. 29 – Oct. 3, 2019.
- [171] L. Ortombina, F. Tinazzi, M. Zigliotto, "Adaptive Maximum Torque per Ampere Control of Synchronous Reluctance Motors by Radial Basis Function Networks", IEEE Journal of Emerging and Selected Topics in Power Electronics, DOI: 10.1109/JESTPE.2018.2858842, Scopus: 2-s2.0-85050399347, ISI: 000495672400036, ISSN: 2168-6777, Vol.7, No.4, pp.2531-2539, Dec. 2019.

2020

- [172] S. Brown, G.A.Longo, L.Ortombina, G. Righetti, M.Zigliotto, C. Zilio "Application Of An Artificial Neural Network (Ann) For Predicting Low-GWP Refrigerant Condensation Heat Transfer Inside Herringbone-Type Brazed Plate Heat Exchangers (BPHE)", International Communications in Heat and Mass Transfer, Elsevier, <https://doi.org/10.1016/j.ijheatmasstransfer.2020.119824>, Scopus: 2-s2.0-85084591812, ISSN: 0017-9310, Vol.156, pp.1-14, Aug.2020.
- [173] L. Ortombina, D. Pasqualotto, F. Tinazzi and M. Zigliotto, "Magnetic Model Identification of Synchronous Motors considering Speed and Load Transients", IEEE Transactions on Industry Applications, doi: 10.1109/TIA.2020.3003555, Scopus: 2-s2.0-85091798596, ISI: 000571821000035, vol. 56, no. 5, pp. 4945-4954, Sept.-Oct. 2020.
- [174] S. Bolognani, P. G. Carlet, F. Tinazzi and M. Zigliotto, "Motor Parameter-Free Predictive Current Control of Synchronous Motor Drives by Recursive Least-Square Self-Commissioning Model", IEEE Transactions on Industrial Electronics, ISI: 000552206000007, Scopus: 2-s2.0-85089217638, ISSN: 0278-0046, doi: 10.1109/TIE.2019.2956407, Vol.67, No.11, pp.9093-9100, Nov. 2020.
- [175] S. Mancin, G. Righetti, C. Zilio, L. Ortombina, M. Zigliotto, "Application Of An Artificial Neural Network (Ann) For Predicting Low-Gwp Refrigerant Boiling Heat Transfer Inside Brazed Plate Heat Exchangers (BPHE)", International Journal of Heat and Mass Transfer, Elsevier, doi: 10.1016/j.ijheatmasstransfer.2020.119824, Scopus: 2-s2.0-85088217365, ISI: 3A000571812700011, ISSN 0017-9310, Vol.160, pp.1-10, Oct.2020.
- [176] L. Ortombina, P. Karamanakos, M. Zigliotto " Robustness Analysis of Long-Horizon Direct Model Predictive Control: Induction Motor Drives", 2020 IEEE 21st Workshop on Control and Modeling for Power Electronics (COMPEL), ISBN: 978-1-7281-7160-9, Scopus: 2-s2.0-85098554749, ISSN: 1093-5142, doi: 10.1109/COMPEL49091.2020.9265655, Aalborg, Denmark, November 9-12, 2020.
- [177] L. Ortombina, P. Karamanakos, M. Zigliotto " Robustness Analysis of Long-Horizon Direct Model Predictive Control: Permanent Magnet Synchronous Motor Drives", 2020 IEEE 21st Workshop on Control and Modeling for Power Electronics (COMPEL), ISBN: 978-1-7281-7160-9, Scopus: 2-s2.0-85098593071, ISSN: 1093-5142 doi: 10.1109/COMPEL49091.2020.9265855, Aalborg, Denmark, November 9-12, 2020.
- [178] M. Giuliato, L. Peretti, F.Tinazzi, M.Zigliotto, "Sensorless Control for a Synchronous Reluctance Motor based on Current Oversampling using standard PWM excitation", 10th IET International Conference on Power Electronics, Machines and Drives (PEMD 2020), Scopus: 2-s2.0-85117682578, DOI: 10.1049/icp.2021.1079, Open Access, Nottingham, UK, pp.13-18, December 15-17, 2020.
- [179] Pasqualotto, D.; Tinazzi, F.; Zigliotto, M. Model-Free Current Loop Autotuning for Synchronous Reluctance Motor Drives. Automation, Vol.1,pp. 33-47, doi: 10.3390/automation1010003, 2020.

- [180] L.Ortombina, D.Pasqualotto, F.Tinazzi, M.Zigliotto, "Comprehensive Analysis and Design of a Pulsating Signal Injection-based Position Observer for Sensorless Synchronous Motor Drives", IEEE Journal of Emerging and Selected Topics in Power Electronics, DOI: 10.1109/JESTPE.2021.3053467, Scopus: 2-s2.0-85100453247, ISI: 000777346600054, ISSN: 2168-6777, Vol.10, No.2, pp.1925-1934, 21 Jan. 2021.
- [181] D.Pasqualotto, F. Tinazzi, M.Zigliotto, "Enhanced solar water-pumping system driven by a synchronous reluctance motors", 22nd IEEE International Conference on Industrial Technology (ICIT), ISBN: 978-172815730-6, doi: 10.1109/ICIT46573.2021.9453546, ISI: 000687856000056, Valencia, Spain, pp. 365-370, 10-12 March, 2021
- [182] D.Pasqualotto, M.Zigliotto, J.Daviù, "Automatic Detection of Rotor Faults in Induction Motors by Convolutional Neural Networks applied to Stray Flux Signals", 22nd IEEE International Conference on Industrial Technology (ICIT), ISBN: 978-172815730-6, doi: 10.1109/ICIT46573.2021.9453624, ISI: 000687856000021, Valencia, Spain, pp. 148-153, 10-12 March, 2021
- [183] D.Pasqualotto, M.Zigliotto, "A Comprehensive Approach to Convolutional Neural Networks Based Condition Monitoring of Permanent Magnet Synchronous Motor Drives", IET Electric Power Applications, doi: 10.1049/elp2.12059, Scopus: 2-s2.0-85122057905, ISI: 000627913300001, ISSN: 1751-8660, vol. 15, no. 7, pp. 947-962, Jul. 2021.
- [184] J.A.Antonino-Daviu, V. Biot-Monterde, A. Navarro Navarro, D. Pasqualotto, M.Zigliotto, "Fault Detection in Soft-started Induction Motors using Convolutional Neural Network Enhanced by Data Augmentation Techniques", 47th Annual Conference of the IEEE Industrial Electronics Society (IES), IECON 2021, 10.1109/IECON48115.2021.9589439, Scopus 2-s2.0-85119479435, ISBN: 978-166543554-3.
- [185] I.D.De Martin, D.Pasqualotto, F.Tinazzi, M.Zigliotto, "Model-free Predictive Current Control of Synchronous Reluctance Motor Drives for Pump Applications", Machines 2021, Vol. 9, Issue 10, pp.1-16, doi: 10.3390/machines9100217, 2021.
- [186] S.Bolognani, P.C.Carlet, F.Tinazzi, M.Zigliotto, "Current Ripple Minimisation in Deadbeat Parameter-free Predictive Control of Synchronous Motor Drives", IEEE Open Journal of Industry Applications, vol. 2, DOI: 10.1109/OJIA.2021.3113027, <https://ieeexplore.ieee.org/document/95403512021>, pp. 278-288, 2021.
- [187] D.Pasqualotto, M.Zigliotto, "Increasing the Feasibility of Neural Network Based Early Fault Detection in Induction Motor Drives", IEEE Journal of Emerging and Selected Topics in Power Electronics, DOI: 10.1109/JESTPE.2021.3115170, Scopus: 2-s2.0-85115723368, ISI: 000458692300001, ISSN: 2168-6777, Vol.10, No.2, pp.2042-2051, 23 Sept. 2021.

- [188] D. De Martin, F. Tinazzi, M. Zigliotto and C. Hackl, "System Parameter-free Continuous Control-set Predictive Current Control of Synchronous Motors," IECON 2022 – 48th Annual Conference of the IEEE Industrial Electronics Society, doi: 10.1109/IECON49645.2022.9968681, Scopus: 2-s2.0-85143911925 ISBN: 978-166548025-3, pp. 1-6, Brussels, Belgium, 2022.

- [189] D. De Martin, F. Tinazzi and M. Zigliotto, "Trajectory Linearisation-based Offset-free MPC for Synchronous Electric Motor Drives with Nonlinear Magnetic Characteristic," IECON 2022 – 48th Annual Conference of the IEEE Industrial Electronics Society, doi: 10.1109/IECON49645.2022.9968681, Scopus: 2-s2.0-85143911925, ISBN: 978-166548025-3, pp. 1-6, Brussels, Belgium, 2022.

2023

- [190] D.Pasqualotto, S.Rigon, M.Zigliotto, "Sensorless Speed Control of Synchronous Reluctance Motor Drives based on Extended Kalman Filter and Neural Magnetic Model", IEEE Transactions on Industrial Electronics, ISSN: 0278-0046, DOI: 10.1109/TIE.2022.3159962, ISI: 000865104500026, Scopus: 2-s2.0-85127058918, Vol.70, No.2, pp.1321-1330, 2023.
- [191] De Martin, N. Panozzo, F. Tinazzi and M. Zigliotto, "Finite Control-set Predictive Direct Torque Control with Maximum Torque per Current Criteria for Synchronous Motor Drives", 2023 IEEE Energy Conversion Congress and Exposition (ECCE), Nashville, TN, doi: 10.1109/ECCE53617.2023.10362826, Scopus: 2-s2.0-85182925541, **ISSN:** 2329-3748, Oct. 29 - Nov. 2, 2023.
- [192] De Martin, F. Tinazzi and M. Zigliotto, "An Analytical Solver for Incremental Velocity Form Model Predictive Control in Power Electronics and Electric Drives Applications", 2023 IEEE Energy Conversion Congress and Exposition (ECCE), Nashville, TN, doi: 10.1109/ECCE53617.2023.10362652, Scopus: 2-s2.0-85182941944, **ISSN:** 2329-3748, Oct. 29 - Nov. 2, 2023.
- [193] I.D. De Martin, A. Brosch, F. Tinazzi, M. Zigliotto "Continuous Control Set Model Predictive Torque Control with Minimum Current Magnitude Criterion for Electric Synchronous Motor Drives", IEEE Transactions on Industrial Electronics, DOI: 10.1109/TIE.2023.3308132, Scopus: 2-s2.0-85171577123, ISI: 001076498200001, ISSN: 0278-0046, Open Access, pp. 1-10, 23 Sept. 2023.
- [194] R. Antonello, S. Rigon, F. Tinazzi and M.Zigliotto, "Capacitorless Synchronous Reluctance Motor Drives for Pump Applications with Resonance Damping and Line Current Harmonics Reduction", IEEE Journal of Emerging and Selected Topics in Power Electronics, DOI: https://doi.org/10.1109/JESTPE.2023.3310530, Scopus: 2-s2.0-85169698789, ISI: 001238652800010, ISSN: 2168-6777, Vol. 11, No. 5, pp. 5279-5289, 14 Oct. 2023.
- [195] Brosch, F. Tinazzi, O. Wallscheid, M. Zigliotto, J. Böcker "Finite Set Sensorless Control With Minimum a Priori Knowledge and Tuning Effort for Interior Permanent Magnet Synchronous Motors", IEEE Transactions on Power Electronics, DOI:10.1109/TPEL.2023.3294557, Scopus: 2-s2.0-85149874256, ISI: 001068815100076, ISSN: 0885-8993, Vol. 38, No. 10, Open Access, pp.12508-12519, Oct. 2023.

2024

- [196] M. Pastura, F. Filippini, N. Bianchi, M.Zigliotto, "Magnetic and Thermal Analysis of Electrically Excited Synchronous Motors for Electric Vehicles", Proceedings of 2024 International Symposium on Power Electronics, Electrical Drives, Automation and Motion (SPEEDAM), Ischia, Italy, 19-21 June, 2024.
- [197] M. Pastura, M. Porru, A. Serpi, F. Tinazzi, A. Turno, M. Zigliotto, "Asymmetric Supply of a Dual Three-Phase PMSM through a Hybrid Energy Storage System in Marine Electric Propulsion Systems", Proceedings of 2024 IEEE Vehicle Power and Propulsion (IEEE VPPC 2024), 7-10 October 2024, Washington DC, USA.

- [198] B. Haus, S. Rigon, P. Mercorelli, M. Zigliotto, "Comparison between UKF and EKF for a Sensorless Synchronous Reluctance Motor Drive Application", *IEEE Open Journal of Power Electronics*, doi: 10.1109/OJPEL.2024.3469533, Scopus: 2-s2.0-85205300938, ISI: 001336130100001, ISSN: 2644-1314, vol. 5, pp. 1562-1572, Sept. 2024.
- [199] M. Pastura, M. Zigliotto, "Overview and Challenges of Fault Detection Methods in Electrical Motors for EV Applications", 26th International Conference on Electrical Machines, ICEM 24, Torino, Italy, doi: [10.1109/ICEM60801.2024.10700355](https://doi.org/10.1109/ICEM60801.2024.10700355), ISSN: 2473-2087 Scopus: [2-s2.0-85207503365](https://scopus.org/record/display?id=s2.0-85207503365), pp. 1-7, Sept. 1-4, 2024.
- [200] R. Antonello, S. Rigon, M. Zigliotto, "Sensorless Control of AC Motor Drives with Adaptive Extended Kalman Filter", 2024 IEEE Energy Conversion Congress and Exposition (ECCE), Phoenix, Arizona, USA, doi: 10.1109/ECCE.55643.2024.10860865, Scopus: 2-s2.0-86000446024, ISSN: 2329-3748, pp. 5991-5998, Oct. 20 - Oct. 24, 2024.
- [201] M. Pastura, M. Zigliotto, "Fault Diagnosis in Electrical Machines for Traction Applications: Current Trends and Challenges", *Energies*, doi: [10.3390/en17215440](https://doi.org/10.3390/en17215440), Scopus: 2-s2.0-85208563914, ISI: 001351297800001, ISSN: 2329-3721, Vol.17, No. 21, pp. 1-20, 2024.

2025

- [202] S. Rigon, B. Haus, P. Mercorelli and M. Zigliotto, "Automatic Tuning of Extended Kalman Filter in Synchronous Reluctance Motor Drives with a Master-Slave Configuration," in *IEEE Open Journal of Power Electronics*, doi: 10.1109/OJPEL.2025.3546752, Scopus: 2-s2.0-105003781758, ISI: 001476440500003, ISSN: 2644-1314, pp.734-746, Vol.6, 2025.
- [203] D. De Martin, F. Tinazzi, M. Zigliotto, N. Monzen and C. Hackl, "Continuous Control Set model Predictive Torque Control of Electrically Excited Synchronous Motors", proceedings of the 7th IEEE Workshop on Electrical Machine Design, Control and Diagnostic (WEMDCD 2025), La Valletta, Malta, 9-10 April, 2025.
- [204] I. De Martin, F. Tinazzi, M. Zigliotto, "Tuning-less Model Predictive Torque Control for Synchronous Motor Drives with Maximum Torque-Per-Ampere Criterion Including Transients", *IEEE Transactions on Power Electronics*, doi: 10.1109/TPEL.2025.3566890, Scopus: 2-s2.0-105004640406, ISSN: 0885-8993, pp. 1-9, 9-10 April, 2025.