

Dr. Marcelo Godoy Simões, Fellow IEEE
Full Professor
Electrical Engineering Department
Colorado School of Mines
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DEGREE	INSTITUTION	CITY	YEAR
D.Sc. Mechanical Engineering	University of São Paulo	São Paulo, Brazil	1998
Ph.D. Electrical Engineering	University of Tennessee	Knoxville, TN, USA	1995
M.S. Electrical Engineering	University of São Paulo	São Paulo, Brazil	1990
B.S. Electrical Engineering	University of São Paulo	São Paulo, Brazil	1985

AWARDS AND HONORS

- **IEEE Fellow (2016)**, with citation "**for applications of artificial intelligence in control of power electronics systems.**"
- **Fulbright Fellow (2014-15)**, Visiting Scholar with Aalborg University (Denmark).
- **NSF - Faculty Early Career Development CAREER (2002)**, it the NSF's most prestigious award for new faculty members, recognizing activities of teacher-scholars who are considered most likely to become the academic leaders of the 21st century.
- IEEE Industry Applications Society IACC Service Award 2013
- Best Paper of the Year 2011 Award, given by IEEE Industrial Electronics Society, for the paper "The New Frontier of Smart Grids" IEEE Industrial Electronics Magazine, November/December 2011, pp. 49-63, vo. 5, no. 3, authored by X. Y. Yu, C. Cecati, T. Dillon and M. Godoy Simões
- Best Conference Paper Award, given by IEEE Industrial Automation and Control Committee of the Industry Applications Society, for the paper "An Energy Management System for Building Structures Using a Multi-Agent Decision-Making Control Methodology," authored by Peng Zhao, Siddharth Suryanarayanan, and M. Godoy Simões, IEEE IAS Annual Meeting 2010
- IEEE Electrical Power & Energy Conference (EPEC), 2009, Montreal, Best Conference Paper Award for the paper "PEM fuel cell stack hardware-in-the-loop emulation using DC/DC converter design."
- CSM Research Fair (1st) for the thesis defended by Caroline Uriarte, "Electrical Modeling and Integration of Distributed Energy Resources into the Electric Grid," April 2007
- Nominated for a Canada Research Chair faculty position at University of Concordia, May 2006.
- IEEE Power Electronics Society recognition award for furthering the objectives of the society by serving as 2005 PESC Technical Program Chair and PEEW Chair.
- North American Power Symposium, 1st Prize Graduate Student Award, for the paper with Robert Wood derived from his M.Sc. thesis entitled "Experimental evaluation of a stand alone wind turbine induction generator under stator flux orientation," August 2004.
- IEEE 2003 Third Prize Paper Award, from The Industrial Automation and Controls Committee of the Industry Applications Society, for the technical competence displayed in the paper entitled "Parametric cmac networks: Fundamentals and Applications of a fast convergence neural structured, " October 2003.
- Award for Leadership and Services, from the IEEE Industrial Automation and Controls Committee of the Industry Applications Society, October 2003.
Dr. Simões was advisor for the 2003 Future Energy Challenge CSM undergraduate team. The CSM students were awarded an IEEE PK Sen Senior Design Award by the IEEE – IAS/PES Denver Chapter in October 2002.
- Certificate of Appreciation from U.S. Department of Energy for working on the organizing committee of the 2001 Future Energy Challenge.
- IEEE IECON 2001 Best Paper Presentation Award "Resonant ac link system converter for fuel cell grid interface"
- Elevated to Senior Member of IEEE, 1998.

- IEEE 1998 Industry Applications Society Best Paper Prize, for the technical competence displayed in the paper entitled "A novel competitive learning neural network based acoustic transmission system for oil-well monitoring" October 1998.
- Nominated for the IEEE IAS Young Engineer Award, 1997.
- Received a prestigious Brazilian Government Scholarship (CNPq) to pursue his Ph.D. at The University of Tennessee from 1991 to 1995.

PROFESSIONAL EXPERIENCE

2017 - current	Full Professor Electrical Engineering Department Colorado School of Mines
2016	Visiting Scholar The Petroleum Institute, Abu Dhabi, U.A.E.
2000 – 2016	Associate Professor Colorado School of Mines
2014 – 2015	US Fulbright Scholar Aalborg University Institute of Energy Technology, Denmark
2007 - 2012	Visiting Professor UTBM – Université de Technologie Belfort-Montbéliard (France)
2011 - 2013	Visiting Professor L'École Normale Supérieure de Cachan (France)
1999	Associate Visiting-Professor Georgia Institute of Technology
1998 - 2000	Associate Professor Department of Mechatronics University of Sao Paulo (USP), Brazil
1989 - 1998	Assistant Professor Department of Mechatronics University of Sao Paulo (USP), Brazil
1993 - 1995	Research-Assistant University of Tennessee, Power Electronics Laboratory (Leave of absence with a Brazilian CNPq Scholarship)
1991 - 1995	Leave of Absence with Permanent Position Secured at USP Ph.D. Brazilian Scholarship (CNPq) The University of Tennessee - USA
1986 - 1988	Antares Eletronica - Brazil Technical director, responsible for development of switching power supplies
1986 - 1987	Liceu de Artes e Ofícios – Brazil Technical college instructor
1986 - 1989	FDTE - Fundação para o Desenvolvimento Tecnológico da Engenharia Applications Engineer, designed electronics and instrumentation circuits
1982 - 1985	FDTE - Fundação para o Desenvolvimento Tecnológico da Engenharia Cooperative undergraduate program, internship, technician services

PROFESSIONAL ACTIVITIES

EDITORSHIPS AND PUBLICATION BOARDS

11. Guest Editorial Board Member for the IEEE Transactions on Smart Grid, Special Issue on Power Quality in Smart Grids, Spring 2015.
10. Guest Editor for IEEE Transactions on Industrial Electronics on "Control Strategies for Spatially Distributed Interactive Power Networks."
9. Associate Editor for "Journal of Control, Automation and Electrical Systems" Springer-Verlag.
8. Associate Editor for "Power Electronics for Renewable Energy Applications," IEEE Transactions on Power Electronics, 2006 – 2011.
7. IEEE IAS Transactions Paper Review Chair for IACC – Industry Automation and Control Committee, 2007-2008.
6. Guest Associate Editor, *IEEE Transactions on Power Electronics*, Special Issue on Power Electronics for Distributed Power Generation (DG), 2004.
5. Guest Editor, *Journal Eletrônica de Potência*, published by The Brazilian Power Electronics Society, Special Issue on Applied Control in Power Electronics, vol.10, # 1, June 2005.
4. Editor for "Intelligent Systems," IEEE Transactions on Aerospace and Electronic Systems, 2002 - 2006.
3. Associate Editor for "Power Electronics in Drives," IEEE Transactions on Power Electronics, 2002 – 2006.
2. Associate Editor for "Energy Conversion," IEEE Transactions on Aerospace and Electronic Systems, 2002 - 2006.
1. Associate Editor for "Intelligent Systems," *Revista Controle e Automação – Sociedade Brasileira de Automática*, 1997 - 2000.

CONFERENCE CHAIRMANSHIPS AND SESSION ORGANIZATIONS

20. Technical Program Chair, IEEE GreenTech **2017**, 9th Annual IEEE Green Technologies Conferences, 30-31 March **2017**, Denver, Colorado, sponsored by IEEE Region 5, IEEE Denver Section, IEEE USA, IEEE PES – Power and Energy Society and IEEE IAS – Industry Applications Society.
19. Tutorial Chair for IEEE ICIT **2017**, 18th Annual International Conference on Industrial Technology, 22-25 March, 2017, Toronto (Canada), Tutorials will be chaired by : Marcelo G. Simoes and Dr. Kaushik Basu
18. Session Organizer and Session Chair, IECON'2014, 40th Annual Conference of the IEEE Industrial Electronics Society, 10/29 – 11/01, 2014, Dallas, TX - USA
17. Technical Chair, IEEE IACC (Industrial Automation and Control Committee) for IAS Annual Meeting, Houston 2010.
16. Technical Chair, IEEE IACC (Industrial Automation and Control Committee) for IAS Annual Meeting, Houston 2009.
15. Program Chair : IEEE 2005 PESC – Power Electronics Specialists Conference, Recife, Brazil. See further details in <http://www.pels.org>
14. Conference Chair : IEEE 2005 PEEW – Power Electronics Education Workshop, Recife, Brazil. See further details in <http://www.pels.org>
13. Session Chairman: Wind and PV, 36th NAPS – North American Power Symposium, Moscow, Idaho, August 9th – 10th, 2004.
12. Track Chairman : Industrial Information Technology, 2003 IEEE International Symposium on Industrial Electronics, Rio de Janeiro, Brazil, June 9-12, 2003.
11. Session Chairman: Drives Applications (IDC Committee) IEEE IAS 37th Annual Meeting, Pittsburgh, Pennsylvania, October 13th – 18th, 2002.
10. Session Chairman: Industrial Controls & Mechatronics (IAC Committee) IEEE IAS 37th Annual Meeting, Pittsburgh, Pennsylvania, October 13th – 18th, 2002.
9. Review Coordinator for Educational Papers, IEEE – 33rd PESC Power Electronics Specialists Conference, held in Cairns, Queensland, Australia, 23 - 27 June 2002.
8. Session Chairman: Applications of Induction Motor Drives, 27th Annual Conference of the IEEE Industrial Electronics Society, Denver, Colorado, Nov. 29 – Dec. 2, 2001.

7. Session Chairman: Control of Induction Motor Drives, 27th Annual Conference of the IEEE Industrial Electronics Society, Denver, Colorado, Nov. 29 – Dec. 2, 2001.
6. Session Organizer : Sensorless Drives I (IDC Committee) IEEE IAS 36th Annual Meeting, Chicago, Illinois, September 30 – October 4, 2001.
5. Session Organizer : Intelligent Control (IAC Committee) IEEE IAS 36th Annual Meeting, Chicago, Illinois, September 30 – October 4, 2001.
4. Session Organizer : Intelligent Controls (IAC Committee) IEEE IAS 34th Annual Meeting, Phoenix, Arizona, October 3 – 7, 1999.
3. Technical Chairman, Brazilian Symposium on Intelligent Automation (SBAI), Brazilian Society of Automatic Control (National Member of the IFAC and IFSA), São Paulo, Brazil, September 8 – 10, 1999.
2. Program Chairman and Organizer IEEE-IAS INDUSCON, Industrial Conference, São Paulo, Brazil, September 8 – 10, 1998.
1. Session Organizer: Industrial Applications for Intelligent Systems, for the II IEEE International Conference on Knowledge-Based Intelligent Electronic Systems, Adelaide, Australia, April 21 – 23, 1998.

CONFERENCE TECHNICAL COMMITTEES, TRACK CHAIR AND PROGRAM COMMITTEES

28. Track Chair Organizer on "Power Systems and Smart Grids" for IEEE ISIE - International Symposium on Industrial Electronics, 19-21 June **2017**, Edinburgh (UK), this technical area in the conference is chaired by (i) Marcelo Simoes, (ii) Josep Guerrero and (iii) Mo-Yuen Chow.
27. Program Committee, IEEE 2011 International Future Energy Challenge
26. Program Committee, IEEE 2010 IAS INDUSCON, São Paulo, Brazil
25. Program Coordinator, IEEE 2005 International Future Energy Challenge.
24. Technical Program Committee: Student Forum of 2004 IEEE International Symposium on Industrial Electronics, May 4-7, 2004, Palais des Congres Expositions, Ajaccio, France.
23. Program Committee and Judging Coordinator, IEEE/DOE 2003 International Future Energy Challenge.
22. Technical Program Committee, 6th IASTED International Conference on Power and Energy Systems, Palm Springs, Florida, February 24 – 26, 2003
21. Technical Program Committee, IEEE – IAS V INDUSCON / I ELEKTRON, July 3 – 5 2002, Salvador, Brazil.
20. Technical Program Committee, 6th IASTED International Conference on Power and Energy Systems, Marina Del Rel, California, May 13 – 15 , 2002
19. Technical Program Committee, IEEE/DOE 2001 Future Energy Challenge.
18. Technical Program Committee, IEEE – IAS IV INDUSCON, November 6 – 9 2000, Porto Alegre, Brazil
17. Technical Chair, IEEE IACC (Industrial Automation and Control Committee) for IAS Annual Meeting, Houston 2010.
16. Technical Chair, IEEE IACC (Industrial Automation and Control Committee) for IAS Annual Meeting, Houston 2009.
15. Program Chair : IEEE 2005 PESC – Power Electronics Specialists Conference, Recife, Brazil. See further details in <http://www.pels.org>
14. Conference Chair : IEEE 2005 PEEW – Power Electronics Education Workshop, Recife, Brazil. See further details in <http://www.pels.org>
13. Session Chairman: Wind and PV, 36th NAPS – North American Power Symposium, Moscow, Idaho, August 9th – 10th, 2004.
12. Track Chairman : Industrial Information Technology, 2003 IEEE International Symposium on Industrial Electronics, Rio de Janeiro, Brazil, June 9-12, 2003.
11. Session Chairman: Drives Applications (IDC Committee) IEEE IAS 37th Annual Meeting, Pittsburgh, Pennsylvania, October 13 – 18, 2002.
10. Session Chairman: Industrial Controls & Mechatronics (IAC Committee) IEEE IAS 37th Annual Meeting, Pittsburgh, Pennsylvania, October 13 – 18, 2002.
9. Review Coordinator for Educational Papers, IEEE – 33rd PESC Power Electronics Specialists Conference, held in Cairns, Queensland, Australia, 23 - 27 June 2002.

8. Session Chairman: Applications of Induction Motor Drives, 27th Annual Conference of the IEEE Industrial Electronics Society, Denver, Colorado, Nov. 29 – Dec. 2, 2001.
7. Session Chairman: Control of Induction Motor Drives, 27th Annual Conference of the IEEE Industrial Electronics Society, Denver, Colorado, Nov. 29 – Dec. 2, 2001.
6. Session Organizer : Sensorless Drives I (IDC Committee) IEEE IAS 36th Annual Meeting, Chicago, Illinois, September 30 – October 4, 2001.
5. Session Organizer : Intelligent Control (IAC Committee) IEEE IAS 36th Annual Meeting, Chicago, Illinois, September 30 – October 4, 2001.
4. Session Organizer : Intelligent Controls (IAC Committee) IEEE IAS 34th Annual Meeting, Phoenix, Arizona, October 3 – 7, 1999.
3. Technical Chairman, Brazilian Symposium on Intelligent Automation (SBAI), Brazilian Society of Automatic Control (National Member of the IFAC and IFSA), São Paulo, Brazil, September 8 – 10, 1999.
2. Program Chairman and Organizer IEEE-IAS INDUSCON, Industrial Conference, São Paulo, Brazil, September 8 – 10, 1998.
1. Session Organizer: Industrial Applications for Intelligent Systems, for the II IEEE International Conference on Knowledge-Based Intelligent Electronic Systems, Adelaide, Australia, April 21 – 23, 1998.

IEEE PROFESSIONAL CHAPTERS

2. Founding and Current Chair of IEEE Industrial Electronics Society (IES) Denver Chapter, 2015 - **current**
1. Founding Chair of Denver IEEE Chapter of Power Electronics (PELS) Society 2003 – 2006

PROFESSIONAL COMMITTEES

25. Chair for IEEE IES Smart-Grid Committee, 2013 - 2014
24. Vice-Chair for IEEE IES Smart-Grid Committee, 2010 - 2012
23. Past-Chair of the IEEE Industry Applications Society – Industrial Automation and Control Committee, 2010 – 2012
22. Vice-Chair for IAS MSDAD Manufacturing Systems Develop. and Appl. Dep. 2008-2010
21. Chair of the IEEE Industry Applications Society – Industrial Automation and Control Committee, 2009 – 2010
20. Vice-Chair of the IEEE Industry Applications Society – Industrial Automation and Control Committee, 2007 – 2008
19. Secretary of the IEEE Industry Applications Society – Industrial Automation and Control Committee, 2005 – 2006
18. IEEE Intersociety Liaison, IEEE Power Electronics Society, 2003 - 2004.
17. Chair of PELS Educational Committee, IEEE Power Electronics Society, 2001 - 2002.
16. Member, IEEE IAS IDC - Industrial Drives Committee, 1996 - present.
15. Member, IEEE IAS IACC - Industrial Automation and Control Committee, 1998 - present.
14. Member, IEEE IAS IPCC - Industrial Power Converters, 2002 - present.
13. Founder of the Colorado Electric Power Research Consortium Program. Served as the director of this shared research program from Jan/2011 to Dec/2015.
12. Director at Center for Advanced Control of Energy and Power Systems – ACEPS, at Colorado School of Mines, Served as director from Jan/2009 to Dec/2015.
11. Associate Director for the Energy Minor Program at Colorado School of Mines. The mission of such program is to offer instructional opportunities for undergraduate students to study all the energy options that may be encountered in the 21st century energy mix, Aug/2004 to July/2007.
10. Program Committee, IEEE 2011 International Future Energy Challenge
9. Program Committee, IEEE 2010 IAS INDUSCON, São Paulo, Brazil
8. Program Coordinator, IEEE 2005 International Future Energy Challenge.

7. Technical Program Committee: Student Forum of 2004 IEEE International Symposium on Industrial Electronics, May 4-7, 2004, Palais des Congres Expositions, Ajaccio, France.
6. Program Committee and Judging Coordinator, IEEE/DOE 2003 International Future Energy Challenge.
5. Technical Program Committee, 6th IASTED International Conference on Power and Energy Systems, Palm Springs, Florida, February 24 - 26, 2003
4. Technical Program Committee, IEEE - IAS V INDUSCON / I ELEKTRON, July 3 - 5 2002, Salvador, Brazil.
3. Technical Program Committee, 6th IASTED International Conference on Power and Energy Systems, Marina Del Rel, California, May 13 - 15 , 2002
2. Technical Program Committee, IEEE/DOE 2001 Future Energy Challenge.
1. Technical Program Committee, IEEE - IAS IV INDUSCON, November 6 - 9 2000, Porto Alegre, Brazil

GOVERNMENT PANELS

22. Review Panelist, National Science Foundation, Machines, Batteries and Storage, March 9-10, 2017.
21. Proposal Reviewer for NSERC Natural Sciences and Engineering Research Council of Canada – *Conseil de recherches en sciences naturelles et en génie du Canada* – Discovery Grant Proposal, December 2015.
20. Review Panelist, National Science Foundation, Machines, Batteries and Storage Panel, March 5-6, 2015.
19. Proposal Reviewer for NSERC Natural Sciences and Engineering Research Council of Canada – *Conseil de recherches en sciences naturelles et en génie du Canada* – Discovery Grant Proposal, December 2014.
18. Panelist for AAAS Center for Science, Policy, American Association for the Advancement of Science, evaluation of research proposals for their *AAAS Research Competitiveness Program*, November 2014.
17. Proposal Reviewer for INNOVA CHILE CORFO, *Chile Oceanic Energy Program*, July 2014.
16. Proposal Reviewer for NSF – National Science Foundation, *CyberSEES Program*, June 2014.
15. Proposal Reviewer for *US Bonneville Power Administration (BPA) Technology Innovation Office* – BPA is a federal nonprofit Pacific Northwest Agency, May 2014.
14. Proposal Reviewer for *NSERC - Natural Sciences and Engineering Research Council of Canada*, December 2013.
13. Proposal Reviewer for *Swiss National Science Foundation*, June 2013.
12. Proposal Reviewer for *Croatian Science Foundation*, June 2011.
11. Reviewer of proposals for *AAAS - American Association for the Advancement of Science's Research Competitiveness Program*, 2010 – 2011.
10. Review Panelist, *National Science Foundation*, Career Panel, October 22-23 2007.
9. Review Panelist, *National Science Foundation*, CCLI – Course Curriculum Laboratory Improvement Program (Phase1) July 12 – 13 2007.
8. Review Panelist, *National Science Foundation*, CCLI – Course Curriculum Laboratory Improvement Program (Phase1) July 6 – 7 2006.
7. Project Evaluator for *Indiana 21st Century Research and Technology Fund*, State Program Sponsored by Indiana Economic Development Corporation (IEDC), 2006
6. Project Evaluator for the *Innovation and Technology Commission of the Government of the Hong Kong*, 2006.
5. Proposal Reviewer, *Portugal Science and Technology Foundation*, for the 2005 Engineering - Electrical Systems and Energy, February 2005.
4. Proposal Reviewer, *U.S. Civilian Research and Development Foundation (CRDF)*, for the 2004 *Moldovan-U.S. Bilateral Grants Program*, January 2005.
3. Review Panelist, *National Science Foundation*, CNCI ECS Unsolicited Proposal Panel in Power Program, January 26-27, 2004.
2. Review Panelist, *National Science Foundation*, CNCI ECS Unsolicited Proposal Panel in Power Program, April 17-18, 2003.
1. Review Panelist, *National Science Foundation*, CCLI – Course Curriculum Laboratory Improvement Program, July 16 – 19 2001.

SCIENTIFIC ADVISORY

- International Advisor, Escuela de Ingeniería, Universidad UNAPEC, Santo Domingo, Dominican Republic, **July 2016 – current.**
- International Advisor, Virtual Laboratory of Power Quality, UNESP – Sao Paulo State University, Brazil (<http://www.dee.feis.unesp.br/qualienergi/>), August 2002 – December 2008

SUMMER APPOINTMENTS ABROAD

- Visiting Professor at *L'École Normale Supérieure de Cachan (France)* – June to July 2013
- Visiting Professor at *Université de Techn. Belfort-Montbéliard (France)* – June to July 2012
- Visiting Professor at *L'École Normale Supérieure de Cachan (France)* – June to August 2011
- Visiting Professor at *Université de Techn. Belfort-Montbéliard (France)* – May to August 2010
- Visiting Professor at *Université de Techn. Belfort-Montbéliard (France)* – May to August 2009
- Visiting Professor at *Université de Techn. Belfort-Montbéliard (France)* – Feb. to July 2007

EXTERNAL EVALUATOR IN INTERNATIONAL GRADUATE COMMITTEES

Jury d'Habilitation à Diriger les Recherche (HDR)

Candidate: Dr. Fei Gao

Title of Thesis : Modeling, Prediction and Control of Energy Generation Systems

School : Université de Franche-Comté

Date: June/2016

Jury d'Habilitation à Diriger les Recherche (HDR)

Candidate: Dr. Babak Nahidmobarakeh

Title of Thesis : Contribution à la Disponibilité des Actionneurs Électriques : Application aux Systèmes Embarqués

School : Université de Lorraine, France

Date: June/2012

Jury d'Habilitation à Diriger les Recherche (HDR)

Candidate: Dr. Benjamin Blunier

Title of Thesis : Modélisation, Conception et Gestion Intégrés des Systèmes Energétiques Hybrides – Véhicules Électriques, pile à combustible et smartgrids

School : Université de Haute-Alsace, France

Date: November/2011

International Doctoral Graduate Committee

Student : Guangjin Li

Title of Thesis : Contribution à la Conception des Machines Electriques à Rotor Passif pour des Applications Critiques : Modélisations Electromagnétiques et Thermiques sur Cycle de Fonctionnement, Etude du Fonctionnement en Mode Dégradé

School : Ecole Normale Supérieure de Cachan, Paris XI, CNRS, UniverSud, 61, av Président Wilson, F-94230, Cachan, France

Date : July/2011

International Doctoral Graduate Committee

Student: Fei Gao

Title of Thesis : Modélisation Multiphysique de Piles à Combustible à Membrane Échangeuse de Protons - Application à la Réalisation d'un Émulateur Temps-Réel

School : UTBM, Université de Technologie de Belfort-Montbéliard, France

Date: December/2010

International Doctoral Graduate Committee

Student: Damien Paire

Title of Thesis : Dimensionnement et Gestion d'Énergie de Systèmes d'Entrainement Électriques Hybrides : Application à un Ascenseur avec Récupération d'Énergie

School : UTBM, Université de Technologie de Belfort-Montbéliard, France

Date: December/2010

International Doctoral Graduate Committee

Student: Jeremie M'BOUA

Title of Thesis : Contribution à la Modélisation et au Contrôle de Compresseurs – Application à la Gestion de l'Air dans les Systèmes Piles à Combustible de Type PEM

School : UTBM, Université de Technologie de Belfort-Montbéliard, France

Date: December/2010

International Engineering Degree Evaluator

Student: Pedro Quintana-Lacaci Aviles

Title of Thesis: "Integration of Transparent PV Glasses in the Façade of a Skyscraper"

School : Escuela Técnica Superior de Ingeniería (ICAI), Spain

Date: August 2010

International Doctoral Graduate Committee

Student: Jérémy Lagorse

Title of Thesis : Modélisation, Dimensionnement et Optimisation Des Systèmes d'Alimentation Décentralisés à Énergie Renouvelable - Multi Agents pour la Gestion de l'Énergie

School : UTBM, Université de Technologie de Belfort-Montbéliard, France

Date: November/2009

International Doctoral Graduate Committee

Title of Thesis: Modelo de Geração de Tarifa de Ruído Aeronáutico Utilizando Lógica Fuzzy

Student: Rogéria de Arantes Gomes Eller

School : ITA, Instituto Tecnologia de Aeronáutica, Brazil

Date: April/2009

International Doctoral Graduate Committee

Student: Benjamin Blunier

Title of Thesis : Modélisation de Moto-Compresseurs en Vue de la Gestion de l'Air dans les Systèmes Pile à Combustible — Simulation et Validation Expérimentale

School : UTBM, Université de Technologie de Belfort-Montbéliard, France

Date: November/2007

International Doctoral Graduate Committee

Student : Jeferson M. Corrêa

Title of Thesis : Development and Implementation of an Advanced High Frequency AC Microgrid for Integration of Alternative Energy Sources

School : Federal University of Santa Maria

Date: March/2006

International Doctoral Graduate Committee

Student : Fredemar Runcos

Title of Thesis : Modeling, Design and Analysis of Brushless Doubly Fed Three-phase
Assynchronous Machines

School : Federal University of Santa Catarina, Brazil

Date: March/2006

International Doctoral Graduate Committee

Student : Yales Rômulo de Novaes

Title of Thesis : Contributions for Fuel Cell Based Energy Processing Systems

School : Federal University of Santa Catarina, Brazil

Date: March/2006

International Comprehensive Graduate Committee

Student : Jose A. da Matta Guedes

Title of Thesis : Three Phase Voltage Inverter with Low Frequency Delta/Wye Transformer Operating Under
Vector Control Using Clarke and Park Transformation

School : Federal University of Santa Catarina, Brazil

Date: July 21st 2005

International Doctoral Graduate Committee

Student : B. Karanayil

Title of Thesis : Parameter Identification for Vector Controlled Induction Motor Drives Using Artificial Neural
Networks and Fuzzy Principles

School : The University of New South Wales, Australia

Date: July/2005

International Doctoral Graduate Committee

Student : Herath Muduyanselage Wijekoon Banda

Title of Thesis : Voltage Restoration Systems and Control

School : Nanyang Technological University, Singapore

Date: March/2004

International Doctoral Graduate Committee

Student : Dawit Seyoum

Title of Thesis : The Dynamic Analysis and Control of a Self-Excited Induction Generator Driven by a Wind
Turbine

School : The University of New South Wales, Australia

Date: April/2003

International Comprehensive Graduate Committee

Student : Yales Rômulo Novaes

Title of Thesis : Power Electronics Processing System for Fuel Cells

School : Federal University of Santa Catarina, Brazil

Date: December 16th 2003

COURSES TAUGHT FROM 2000 TO 2016

I have taught classes related to power electronics, adjustable speed drives, renewable energy, artificial intelligence, electric circuits, electronics, field session. I developed, taught and nurtured many undergraduate and graduate courses in order to have a meaningful education in power electronics, renewable energy, modern adjustable speed vector-controlled drives, artificial intelligence and most recently power quality for renewable energy integration. Next I am listing all courses I taught from the

period of Spring 2000 to Spring 2016, i.e. a period of 17 years in my life (I also taught many courses at the University of São Paulo, Brazil). The following list is just a laundry list, from the most recent course to the very first one, details for those courses are listed in my Dossier for Promotion, but here it shows a very encompassing experience in teaching at the undergraduate and graduate levels, including multidisciplinary experiences, and teaching abroad (Aalborg and Abu Dhabi).

- The list for all courses follows** — ELEG515 Intelligent Control, PI (UAE), STPS251 Strategies for Team Based Eng. Problem Solving II, PI (UAE), EENG572 Renewable Energy and Distributed Generation, EENG470 Intro to High Power Electronics, EENG599 Design of Power Electronic Converters, EENG489, Computational Methods in Energy Systems and Power Electronics, Course Developed during my Fulbright Fellowship at Aalborg University in Denmark in Fall 2014: “Interconnection Issues and Impact of Renewable Energy on Power Quality”, EENG389L Laboratory of Fundamentals of Electric Machinery, EENG389 Fundamentals of Electric Machinery, EENG599 Control Design for Power Electronics, EENG599 Vector Control and Dynamics of AC Drives, EENG599 Alternative Energy Systems : Induction Generators, EENG599 Hybrid Energy Systems Design, EENG570 Advanced High Power Electronics, EENG489 Computational Methods in Energy Systems and Power Electronics, EENG599 Advanced Control for Power Electronics, EENG470 Intro to High Power Electronics, EGGN599 Control Design for Power Electronics, EGGN599 Hybrid Energy Systems Design, EGGN498 Computational Methods in Energy Systems and Power Electronics, EGGN281 Introduction to Electrical Circuits, EGGN585 Advanced High Power Electronics, EGGN599 Electrical Engineering Applications in Mining Industry, EGGN599 Smart Grid Technology in Power Systems, EGGN504 Graduate Electrical Power Seminar, EGGN486 Practical Design of Small Renewable Energy Systems, EGGN485 Intro to High Power Electronics, EGGN581 Modern Adjustable Speed Drives, EGGN485 Intro to High Power Electronics, EGGN504 Graduate Electrical Power Seminar, EGGN617 Intelligent Control Systems, EGGN585 Advanced High Power Electronics, EGGN504 Graduate Electrical Power Seminar, EGGN485 Intro to High Power Electronics, EGGN582 Renewable Energy and Distributed Generation, EGGN486 Practical Design of Small Renewable Energy Systems, EGGN334 Electrical Field Session, EGGN599 Inverter Modeling Generation, EGGN599 Modeling Grid Connected Converters, EGGN581 Modern Adjustable Speed Drives, EGGN485 Intro to High Power Electronics, EGGN499 Design of Renewable Energy Systems, EGGN585 Advanced High Power Electronics, EGGN486 Practical Design of Small Renewable Energy Systems, EGGN334 Electrical Field Session, EGGN599 Z-Source Converters, EGGN581 Modern Adjustable Speed Drives, EGGN485 Intro to High Power Electronics, EGGN499 Renewable Energy EGGN604 Graduate Electrical Power Seminar, EGGN504 Graduate Electrical Power Seminar, EGGN486 Practical Design of Small Renewable Energy Systems, EGGN582 Renewable Energy and Distributed Generation, EGES599 Advanced Electronic Circuit Modeling, EGGN499 Modeling Quasi Resonant Circuits, EGES581 Modern Adjustable Speed Drives, EGE501 Advanced Engineering Measurement, EGGN382 Engineering Circuit Analysis, EGGN334 Electrical Field Session, HNRS312 McBride Foreign Area Study, EGES585 Advanced High Power Electronics, EGGN485 Intro to High Power Electronics, EGES598 Practical Design of Small Renewable Energy Systems, EGGN498 Practical Design of Small Renewable Energy Systems, EGES504 Graduate Seminar, EGGN382 Engineering Circuit Analysis, EGES599 Neural Network for Fuel Cell Control, EGES599 Control of Fuel Cell Power Systems, EGGN334 Electrical Field Session, EGGN499 Modeling Distributed Resources, EGGN499 Simulation of Alternative Energy, EGGN382 Engineering Circuit Analysis, EGES585 Advanced High Power Electronics, EGGN485 Intro to High Power Electronics, EGES599 C/C++ Programming for Intelligent Control, EGES599 Modeling Renewable Energy Sources, HNRS300 McBride Seminar – Technology and Socio Economic Change, EGES617 Intelligent Control, EGGN385 Electronic Devices and Circuits, EGGN334 Electrical Field Session, HNRS201 McBride Seminar – Comparative Political and Economic Systems, EGES599 Induction Generators in Renewable Energy Systems, EGES699 Advanced Study in Active Filters, EGES598 Renewable Energy and Distributed Generation, EGES585 Advanced High Power Electronics, EGGN485 Intro to High Power Electronics, EGGN398 Special Topics: Circuits Applications, EGGN389 Fundamentals of Electric Machinery, EGES598 Modern Adjustable Speed Drives, EGES599 Advanced Optimization Techniques, EGES599 Investigation on Spin Transistor, EGGN334 Electrical Field Session,

EGES598 Distributed Power Generation and Renewable Energy, EGES521 Mechatronics, EGES585 Advanced High Power Electronics, EGGN485 Intro to High Power Electronics, EGGN385 Electronic Devices and Circuits, EGES599 Artificial Intelligence for Power Systems, EGES598 Distributed Power Generation and Renewable Energy, EGGN334 Electrical Field Session, EGGN499 Modeling Distributed Generation, EGES617 Intelligent Control, EGES585 Advanced High Power Electronics, EGGN485 Intro to High Power Electronics, EGGN385 Electronic Devices and Circuits, EGES598 Advanced Adjustable Speed Drives, EGGN334 Electrical Field Session, EGGN499 Fuel Cell Inverter, EGES521 Mechatronics, EGES585 Advanced High Power Electronics, EGGN485 Intro to High Power Electronics, EGES511 Digital Signal Processing, EGGN499 Design of Resonant Converters and EGGN233 Electrical Field Session.

RESEARCH

My work has been evolving the development of analysis and modeling schemes, real-time based simulation frameworks, tackling artificial intelligence or modern distributed control for complex problems and multidisciplinary understanding of renewable energy systems and conversion to the end-user and integration with the utility grid. I developed one of the earliest automation control based model of fuel cells, and developed techniques of paralleling self-excited induction generators. I worked with cyber-physical systems for energy management and control, and currently I am interested in applying complex network systems theory for integrating smart-grid based inverters in weak-grid applications. I have been publishing my research in high quality peer-reviewed journals and presenting papers in important conferences. The majority of my published papers are with Transactions, Journals and Magazines of the Institute of Electrical and Electronics Engineers. Total number of citations to my work in **Google Scholar is 7723, with h-index: 42**. My areas of research overlap energy systems and power electronics, with some extension to power systems, power quality and renewable energy and artificial intelligence, indicated in the next table.

Research topics for my journal publications
high-frequency ac microgrid distribution
fuel cell modeling, analysis and automation
development of induction generator transient analysis
advanced hybrid energy management control
wind and photovoltaic systems
power electronic converters and topologies
analysis and design of electrical machines and generators
distributed generation, smart-grid technology analysis, topologies and power quality
artificial intelligence, fuzzy logic, neural networks, multiagent systems

Students Graduated from Colorado School of Mines

Student Name	Faculty Role	Degree & Year	Funding Source (Self, Faculty Member's Grant, Other Faculty Member)
Bananeh Ansari	Advisor	PhD, 2017	CSM Index # 470039
Xuliang Hou	Advisor	MS, 2017	Self-funded
Mohammad Babakmehr	Advisor	PhD, 2017	CSM Index # 470039
Abdulhakeem Alsaleem	Advisor	MS, 2015	Saudi Arabia Fellowship
Kerry McBee	Advisor	PhD, 2014	Xcel-Supported Employee
Chris Lute	Advisor	MS, 2014	CSM Index # 470039
Aleksander Reznik	Advisor	MS, 2013	CSM Index # 470039
Saurav Bhattacharai	Advisor	MS, 2012	CSM Index # 400043
Julieta Giráldez Miner	Co-Advisor	MS, 2011	CSM Index # 400043
Peng Zhao	Advisor	MS, 2010	CSM Index # 400043
Matthew Earleywine	Advisor	MS, 2009	NREL-Supported Employee
Matthew D. Zolot	Advisor	MS, 2008	NREL-Supported Employee
Sudipta Chakraborty	Advisor	PhD, 2007	NSF CAREER Award
Caroline Uriarte	Advisor	MS, 2007	NSF CAREER Award
Bhaskara C. Palle	Advisor	MS, 2006	NSF CAREER Award
Robert Allen Wood	Advisor	MS, 2004	PSERC grant for CSM
Taehong Kim	Co-Advisor	PhD, 2004	Supported by Mining Eng. Department
Mark Dace	Co-Advisor	MS, 2001	CSM IBMS and CSM CARDI

Students Graduated at Other Institutions

Student Name	Faculty Role	Degree & Year	Funding Source (Self, Faculty Member's Grant, Other Faculty Member)
Mohammad Kabalo	Co-Advisor	PhD, 2012	French student, UTBM, Belfort (France)
Jeferson M. Corrêa	Co-Advisor	PhD, 2006	Brazilian student, UFSM, Brazil
Alexandre T. Mafra	Advisor	MS, 2002	Brazilian student, USP, Brazil
Paulo E. M. Almeida	Advisor	PhD, 2002	Brazilian student, USP, Brazil
Francisco Javier R. Peláez	Advisor	PhD, 2001	Brazilian student, USP, Brazil
Petronio Vieira Jr.	Advisor	PhD, 2000	Brazilian student, USP, Brazil
Silvio Szafir	Advisor	MS, 2000	Brazilian student, USP, Brazil
Jhonny L. M. Tiquilloca	Advisor	MS, 1999	Brazilian student, USP, Brazil
Nilson N. Franceschetti	Advisor	MS, 1998	Brazilian student, USP, Brazil

Current PhD Students (admitted to Candidacy) – completed their PhD Proposal Oral Exam

- **Abdullah Bubshait**, doctoral research: "Advanced Modeling and Analysis of Synchronous Generators for Wind Energy Systems."
- **Farnaz Harirchi**, doctoral research: "Instantaneous Power Theory Based Distributed Energy Management Control."
- **Ali Mortezaei**, doctoral research: "Conservative Power Theory for Improved Power Quality of Smart-Grids."

FUNDED RESEARCH ACTIVITIES

I obtained the following research grants since joining Colorado School of Mines with awards **totaling more than \$4.8M** with share amount budgeted totaling more **than \$2.1M on my own** (there are external grants where I worked to receive pos-docs that I could not consider officially as a CSM money, but many people came to work with me in visiting-scholar positions with those fellowships that I helped them to win).

Development of a PV Grid Connected Inverter for Smartgrids (PI, Abu Dhabi, UAE)

A collaborative project between CSM and PI (Abu Dhabi) on research problems related to grid integration and interconnection with renewable energy sources through the use of power electronics technology.

Completed : January/2017

Students Supported: Chris Lute, Aleksander Reznik, Bananeh Ansari, Mohammad Babakmehr, Farnaz Harirchi, Ali Mortezaei

A Feasibility Study for a Solar-Wind Hybrid Power Generation for Minera San Cristobal

A research study on the feasibility of converting a village in Bolivia for fully renewable energy powered grid.

Completed: July/2013

Students Supported: Kyle Bahr (Mining Engineering Department)

Cyber-Enabled Efficient Energy Management of Structures (NSF/CEEMS)

This is a multi-disciplinary project to develop a cyber-physical system infrastructure for smart building connected to a smart-grid. Dr. Simões is involved in the energy management group and is developing a multi-agent system for performance improvement of smart-grid connected buildings.

Completed: August//2013

Students Supported: Saurav Bhattarai, Peng Zhao, Chris Lute (for one semester)

Green Inverter - This work was a joint project with UQM and University of Colorado, it was proposed a scalable inverter that incorporates a number of innovative features, such as scalable to 1.7 kW, 3.4 kW, and 5 kW and configurable for 120/240VAC split phase, 208 or 240VAC 3-phase.

Completed: August//2011

Students Supported: Matthew D. Zolot, D. I. Brandão (Visiting Scholar from Brazil), R. Carnieletto (Visiting Scholar from Brazil)

Smart Inverter for a Smart Grid – This work is a joint project of Colorado School of Mines, University of Colorado and Colorado State University, it was designed a photovoltaic system connected to a smart inverter which controls load, storage and grid interconnection.

Completed: July/2011

Students Supported: Julieta Giráldez Miner, (Visiting Scholar from Brazil), R. Carnieletto (Visiting Scholar from Brazil)

CAREER: Intelligent Based Performance Enhancement Control of Micropower Energy Systems, NSF

- This work proposes a high-frequency ac link microgrid for connection of renewable energy systems with power flow optimization under an adaptive-critic-design based neural network controller. The optimization of storage systems will be an integral part of the system integration in order to maximize the economics of the system. Fault diagnosis of fuel cells through intelligent control methods will also be integrated to the microgrid.

Completed: September/2008

Students Supported: Sudipta Chakraborty, Bhaskar Palle, Robert A. Wood

Enhancing Engineering Responsibility with Humanitarian Ethics in Graduate Engineering Education : Theory and Practice of Humanitarian Ethics in Graduate Engineering Education, NSF - During the last third of the 20th century, the increased emphasis on ethics in engineering education has focused on individual and social responsibilities has nevertheless overlooked an important dimension of engineering practice that deserves clearer ethical articulation and curriculum development: the role of engineers in

Marcelo Godoy Simões

humanitarian activities. Contributing to these conceptual, methodological, and curricular challenges, this project proposes to 1) review and critically assess relations between humanitarianism and engineering in order to develop an applicable concept of humanitarian ethics (HE) in engineering education and practice; 2) discover and overcome barriers to the application of HE in graduate engineering education as currently taught and learned; 3) create and implement a model of HE in graduate engineering education; and 4) assess and improve the model of HE in order to make it an example for broad dissemination.

Completed: August/2008

Students Supported: Some undergraduate and Master students were supported in this grant, most of them working with LAIS professors. My role was always to advise on the Engineering side, and I actually never had those students finishing thesis with me. But our school obtained a strong recognition with this project, and I am very grateful that I had the opportunity to collaborate with several of our colleagues with LAIS.

REU – Research Experience for Undergraduate Student: Fuel Cell Inverter, NSF - This work proposed the development of a series resonant inverter to be used in a fuel cell system. The system was modeled and simulated. It is expected that a new graduate student continues the project.

Completed: September/2008

Undergraduate Students Supported: E. D. Hutto, J. Severson, Chris Pink, Carmelas Y. Salas, Chris D. Roemmich.

Modeling Ultracapacitor/Battery Storage for Fuel Cells

Colorado School of Mines has multidisciplinary group working on a SBIR with Mesoscopic Devices to develop the integration of electrochemical fuel cell models with power electronic systems. There are many issues of control integration that are under development on this project in order to compensate transient response of fuel cells to optimize the storage optimization index.

Completed: March/2007

Students Supported: Caroline Uriarte

Serving Humanity: Engineers Improving the World Through Regional, National and International Community Service, William and Flora Hewlett Foundation - Several CSM faculty are working to develop a community service component for the engineering curriculum at the Colorado School of Mines that will teach engineering students how to bring technical knowledge and skill to bear on the real-world problems of the less materially advantaged in order to promote development of the common good. To accomplish this goal, the group modified existing courses and introduced new engineering courses that convey relevant knowledge and training for service missions. This curriculum consists of both technical and non-technical courses to develop the skills, expertise, understanding, and attitudes that support pro-active community service.

Completed: December/2008

Students Supported: Many undergraduate and Master students were supported in this grant. However, all of them who worked with me where on the non-thesis program. I do not have records of those students.

Electrical Model Development and Validation for Distributed Resources - This project focus on developing new fundamental electrical models and coalescing available information on advanced distributed resources (DR) that can be implemented in commercial modeling software packages. This research will validate the developed models with actual testing of multiple types of DR to examine the electrical impacts of multiple DR on the electrical power system. DR includes all generation (PV, wind, fuel cell, microturbine, engine) and storage (batteries, flywheel, etc.) located at or near loads. The research developed by this project could then be used to examine how to properly integrate DR into the distribution system to improve reliability by using advanced operational concepts such as intentional islanding, microgrids, and distribution networks.

Completed : March/2006

Students Supported: Caroline Uriarte, Bhaskar Palle

A Stand Alone Wind Turbine Induction Generator for Small Power Applications - This project designed a controller to regulate both the AC terminal voltage and DC link voltage of an induction generator system

operating under variable shaft speed for wind power applications. The induction generator was powered using a PWM inverter with a variable DC bus voltage. Electrical power was supplied to a DC and an AC load. The controller compensated for changes in the electrical loads as well as the variation in speed. The terminal generator voltage was regulated by programming on-line the machine stator flux inversely to the turbine angular. This system can be used for small hydro and wind rural applications for battery charging or connection to a stand-alone or interactive inverter.

Completed: July/2004

Students Supported: Robert A. Wood, Bhaskar Palle

Smart Sensor Development for Power Transmission and Distribution, PSERC - This work proposed a new approach based on using light absorbance to monitor power transformer oil. Oil is continually sampled from the transformer, and light is passed through the oil and tested for absorbance. Preliminary experiments have demonstrated that a system based on certain wavelengths could determine the difference between an acceptable or unacceptable sample of oil. Samples of failed transformer showed a general increase in absorbance during the experiment. Additional wavelengths can be identified, which provides more information about the state of the transformer and makes the system more versatile in determining fault types.

Completed: July/2004

Students Supported: Robert A. Wood

Planning Grant to Reform Undergraduate Education at Colorado School of Mines National Science Foundation, NSF - In response to a call from the National Science Foundation for curriculum reform and elimination of legacy materials in engineering curricula, faculty at the Colorado School of Mines (CSM) developed and offered a combined set of course modules in Fluids and Circuits. These modules consisted of a two-credit interdisciplinary course in fundamentals, followed by two one-credit modules focusing on applications in fluids, and in circuits, respectively. The course set reduced the overall number of credits from six (three in each of the standard Fluids and Circuits classes) to four through the 2+1+1 format. The fundamentals course was based on conservation/accounting principles for the concepts of mass, momentum, energy, and charge. Applications courses developed these ideas in the respective disciplines. The main goal of this planning grant was to emphasize unifying themes with correspondent reduction in course content with an assessment of student comprehension and learning.

Completed: September/2004

Students Supported: Undergraduate students on hourly-based contracts to support development of teaching materials

RECENT PRESENTATIONS, SEMINARS AND TUTORIALS

2015-16

- Taught the international Graduate Course "Power Electronics for Renewable Energy Systems" (PERES-2016), for the Department of Electrical Engineering, National Institute of Technology Goa (India). The course had 65 participants among academicians, industrial communities and research scholars, 8-17 December, 2016.
- "Power Electronics: A Key Technology for Renewable Energy Applications", invited talk for the IEEE PES Chapter in Abu Dhabi (UAE), March 23rd 2016.
- "Shunt Compensation Based on the Conservative Power Theory - Application for an Interactive Smart Battery/PV/Wind Hybrid Energy Management Control", University of Tennessee - Knoxville, Department of Electrical Engineering and Computer Science, March 10th 2015.

2014-15

- Tutorial: "Modeling and Analysis with Induction Generators" at IEEE IECON 2014, Dallas, TX during October 29th to November 1st, 2014 – a 4 hours tutorial attended by industry and conference participants.
- Seminar about the "Program and Research at the Department of Electrical Engineering and Computer Science (EECS) – Energy Systems and Power Electronics Research," for faculty and students with the University of Aalborg (Denmark), August 21st 2014.

2013-14

- "Electrical Power Education and Research: Challenges for a Contemporary Industry," Invited talk with Public Utilities in Anchorage, Alaska, March 28th 2014.
- "Power Electronics for Renewable and Alternative Energy Systems," Seminar at the University of Alaska at Anchorage, Department of Electrical Engineering, March 27th 2014.

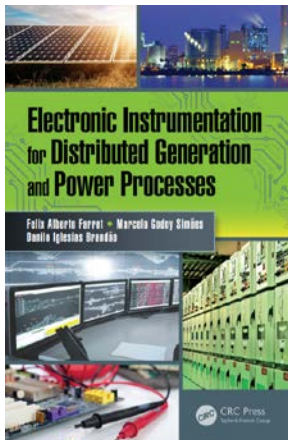
2012-13

- M. G. Simões "Flux Switching Electrical Generator for Wind Turbine Systems" Presentation for the Center for Research & Education in Wind (CREW), Colorado State University, April 2nd 2013.
- "Power Electronics for Alternative Energy Systems," Keynote speech at 19th Brazilian Conference on Automation - CBA 2012, Campina Grande, Brazil, September 6th 2012.

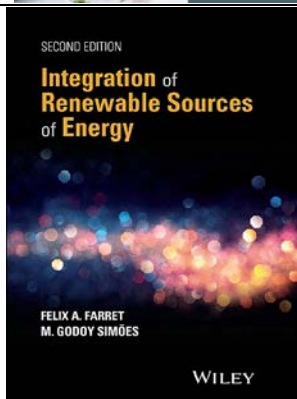
LIST OF PATENTS, BOOKS, CHAPTERS AND PUBLICATIONS

PATENTS

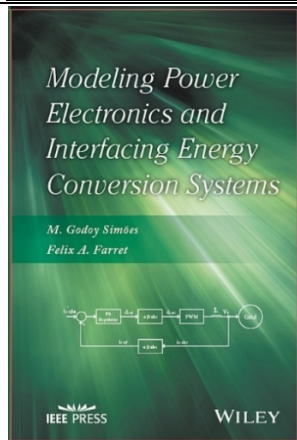
3. U.S. Patent # 5,811,957, September 22nd 1998, "Speed sensorless vector-controlled induction motor drive with zero speed operation," B.K. Bose, M. Godoy Simões, D.R. Crecelius, K. Rajashekara, R. A. Martin.
2. U.S. Patent # 5,652,485, July 29th 1997, "Fuzzy logic integrated electrical control of wind generation system" B.K. Bose and R. Spiegel. This patent was derived from Dr. Simões doctoral research.
1. Brazilian Patent, "Device for protection of IC engines" granted by INPI (Brazilian Agency). Dr. Simões forfeited his patent rights.

BOOKS

- [10.] F. A. Farret, M. Godoy Simões, D. I. Brandão, *Electronic Instrumentation for Distributed Generation and Power Processes*, CRC Press. ISBN: 978-1-4987-8241-8
 Book URL: <https://www.crcpress.com/Electronic-Instrumentation-for-Distributed-Generation-and-Power-Processes/Farret-Simoos-Brandao/p/book/9781498782418>

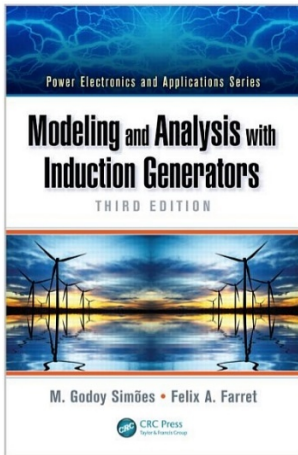


- [9.] F.A. Farret, M. Godoy Simões, *Integration of Renewable Sources of Energy – 2nd Edition*, John Wiley and Sons. ISBN 978-1-119-13736-8
 Book URL : <http://www.wiley.com/WileyCDA/WileyTitle/productCd-1119137365.html>



- [8.] M. Godoy Simões, F. A. Farret; *Modeling Power Electronics and Interfacing Energy Conversion Systems*, IEEE/Wiley.
 ISBN: 978-1-119-05826-7
 Book URL: <http://www.wiley.com/WileyCDA/WileyTitle/productCd-1119058260.html>

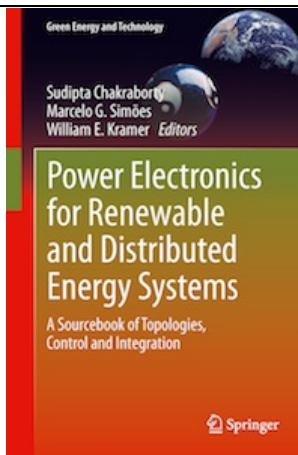
The simulation files are available for readers who register with the Google Group: power-electronics-interfacing-energy-conversion-systems@googlegroups.com. After your registration you will receive information in how to access the simulation files, the Google Group can also be used to communicate with other registered readers of this book.



[7.] M. Godoy Simões, F. A. Farret, *Modeling and Analysis with Induction Generators – 3rd Edition*, Taylor and Francis / CRC Press, December 2014. ISBN 978-114-8224467-0

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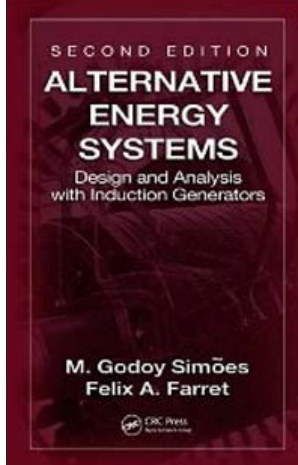
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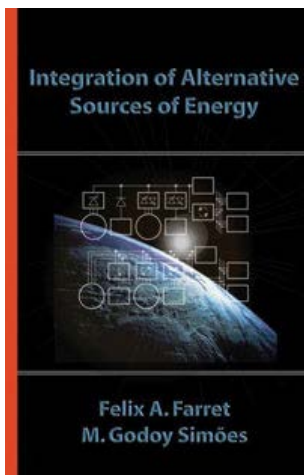
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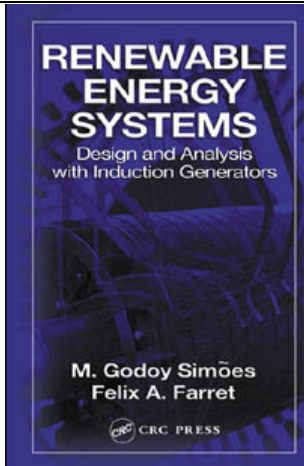
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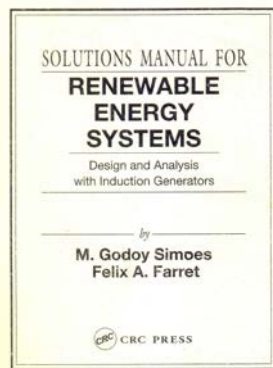
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[4.] F.A. Farret, M. Godoy Simões, *Integration of Alternative Sources of Energy*, John Wiley and Sons. ISBN 0-471-71232-9.



[3.] M. Godoy Simões, F. A. Farret, *Renewable Energy Systems: Design and Analysis with Induction Generators*, (textbook with 374 equations, 29 tables and 220 figures), CRC Press. ISBN 0-8493-2031-3.



[2.] M. Godoy Simões, F. A. Farret, *Solutions Manual - Renewable Energy Systems* (companion to textbook), CRC Press. ISBN: 0849333598.

<https://www.goodreads.com/book/show/5694598-solutions-manual-renewable-energy-systems>



[1.] M. Godoy Simões and I.S. Shaw, *Controle e Modelagem Fuzzy* (First book in Portuguese about fuzzy control systems) [Fuzzy Modeling and Control] Publisher: Edgard Blucher. ISBN 8-52-12024-82, 1st Edition: 1999, 2nd Edition: 2007.

<https://www.blucher.com.br/livro/detalhes/control-e-modelagem-fuzzy-243/computacao-284>

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- [14.] T.D.C. Busarello, M. Godoy Simões, J.A. Pomilio, "Semiconductor Diodes and Transistors" in: ***Power Electronics Handbook 4th Edition***, edited by M. Rashid, Elsevier.
- [13.] Marcelo Godoy Simoes, Tiago Davi Curi Busarello "Distributed Generators and Microgrids" in: ***Power Electronic Converters and Systems: Frontiers and Applications***, edited by Andrzej M. Trzynadlowski ISBN 978-1-84919-826-4, The Institution of Engineering and Technology (IET) <http://www.theiet.org/resources/books/pow-en/pecasfaa.cfm>
- [12.] B. Ansari, A Soroudi, M. G. Simoes, Andrew Keane, "Resiliency Assessment of Electric Power Distribution Systems, in: ***Distributed Generation: Systems, Performance and Emerging Technologies***, 1st ed. Hauppauge, NY: Nova Science Publishers, 2017, ch. 9.
- [11.] M. Babakmehr, M. Godoy Simões and A. Al-Durra, Chapter 13 "Compressive Sensing for Smart Grid Security and Reliability" in: ***Communication, Control and Security for the Smart Grid***" edited by S. M. M. Muyeen and Saifur Rahman, published by IET (UK). December 2016. Print ISBN # 978-1-78561-142-1. E-book ISBN # 978-1-78561-143-8.
- [10.] M. Godoy Simões, F.A. Farret and F. Blaabjerg, Chapter "Small Wind Energy Systems" in: ***Renewable Energy Devices and Systems with Simulations in MATLAB and ANSIS***" edited by F. Blaabjerg and D. Ionel, 1st edition, Taylor and Francis, ISBN: 978-1-4987-6582-4, 2017.
- [9.] M. Godoy Simões, S.M. Muyeen and A. Al-Durra, Chapter "Sizing and Design of a Wind Turbine System" in: ***Renewable Energy Devices and Systems with Simulations in MATLAB and ANSIS***" edited by F. Blaabjerg and D. Ionel, 1st edition, Taylor and Francis, ISBN: 978-1-4987-6582-4, 2017.
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- [5.] F. A. Farret, M. Godoy Simões and A. Michels, "Small Hydroelectric Systems," in ***Power Electronics for Renewable and Distributed Energy Systems: A Sourcebook of Topologies, Control and Integration***, 1st edition, London,,: Springer-Verlag. 2013, Chapter 5, pp. 151–184. ISBN 978-1-4471-5103-6
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- [3.] M. Godoy Simões. "Power Bipolar Transistor," chapter 5, pages 63-74. In M.H. Rashid, editor-in-chief, ***Power Electronics Handbook***. Academic Press, ISBN 0-12-58650-2, 2001.
- [2.] M. Godoy Simões. "Neural Network Based Estimation of Feedback Signals for a Vector Controlled Induction Motor Drive" pages 248 to 257. In K. Rajashekara et al..., ***Sensorless Control of AC Motor Drives*** IEEE Press, 1996 ISBN 0-7803-1046-2
- [1.] M. Godoy Simões. "Speed Sensorless Hybrid Vector Controlled Induction Motor Drive" pages 119 to 125. In K. Rajashekara et al..., ***Sensorless Control of AC Motor Drives*** IEEE Press, 1996 ISBN 0-7803-1046-2

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- [75.] A. Mortezaei, M. Godoy Simoes, M. Savaghebi, J.M. Guerrero, and A. Al-Durra, "Cooperative control of multi-master-slave islanded microgrid with power quality enhancement based on conservative power theory" *IEEE Transactions on Smart Grid*, vol. PP, no.99, pp.1-1. **2017**.
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- [74.] T.D.C. Busarello, A. Mortezaei, H.K.M. Paredes, A. Al-Durra, J.A. Pomilio, M. Godoy Simões "Simplified small signal model for output voltage control of asymmetric cascaded H-bridge multilevel inverter" *IEEE Transactions on Power Electronics*, vol.PP, no.99, pp.1-1 **2017**.
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- [73.] B. Ansari, M. Godoy Simoes "Distributed energy management of PV-Storage systems for voltage rise mitigation" *accepted for Technology and Economics of Smart Grids and Sustainable Energy* **2017**.
- [72.] A. Mortezaei, M. Godoy Simões, A.S. Bubshait, T.D.C. Busarello, F.P. Marafão, A. Al-Durra, "Multifunctional control strategy for asymmetrical cascaded H-bridge inverter in microgrid applications" *IEEE Transactions on Industry Applications*, vol. 53, no. 2, pp. 1538-1551, Mar-A **2017**.
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- [70.] A. S. Bubshait, A. Mortezaei, M. Godoy Simões, T.D.C. Busarello "Power quality enhancement for a grid connected wind turbine energy system" *IEEE Transactions on Industry Applications*, vol. 53, no. 3, pp. 2495-2505, May-June **2017**.
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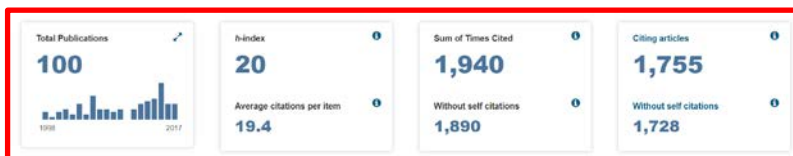
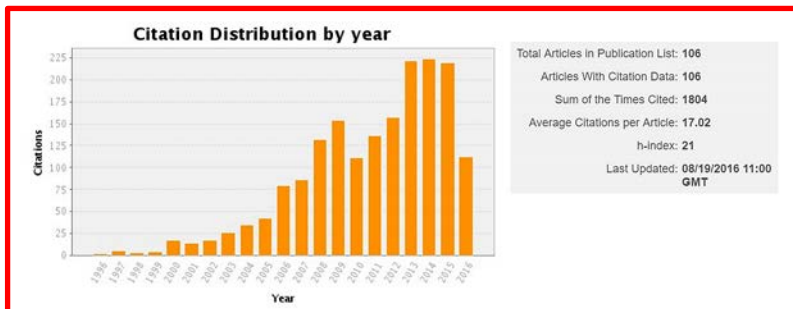
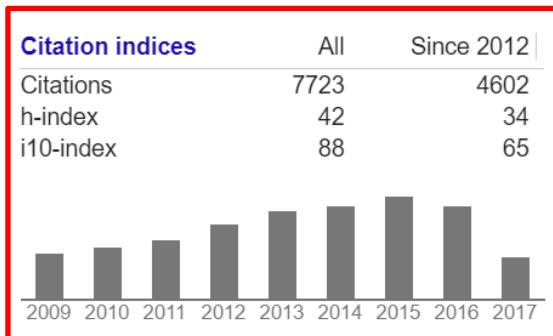
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