

SHORT CURRICULUM VITAE

SECHILARIU Manuela

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Actual affiliation: Sorbonne University - Université de Technologie de Compiègne (UTC)
Centre Pierre Guillaumat, rue du Dr. Schweitzer, 60200 Compiègne, FRANCE

Career:

- 2002 - present** **Full Professor**, Sorbonne University - School of Eng. Université de Technologie de Compiègne
Research: Director of interdisciplinary research unit AVENUES EA 7284 (from 2016)
Teaching: Department Génie des Systèmes Urbains (GSU) ; *Urban System Engineering*
- 1994 - 2002** **Associate Professor**, Université d'Angers
Research: Research unit LISA EA 4094
Teaching: Institut Universitaire Professionnalisé (IUP) IMIS-ESTHUA
- 1990 - 1994** **PhD Student** and part-time **Lecturer** at Université d'Angers
Research: Research unit LISA EA 4094
Teaching: IUP IMIS-ESTHUA
- 1988 - 1990** **Assistant Professor**, Polytechnic Institute of Iasi, Romania
Research: Electrical Engineering Research Unit
Teaching: Electrical Engineering Department
- 1986 - 1988** **Research and Development Engineer** ITRD Pascani, Romania

Academic background (titles, diplomas):

- 2013** **HDR** (Habilitation à Diriger des Recherches, *Accreditation to Supervise Research*) French title required for Full Professor, Université de Technologie de Compiègne
Title: Distributed renewable electricity. Urban microgrids and smart grid
Research unit: AVENUES EA 7284
Date: Thesis defended on 9th of July 2013
- 1993** **PhD in Electrical and Automation Engineering**, Université d'Angers
Title: Use of colored and timed Petri Nets for modelling and simulation of rectifier and inverter circuits
Research unit: LISA EA 4094, Université d'Angers
Date: Thesis defended on 26th of November 1993
- 1986** **Electrical Engineering Degree** (bachelor and master) Polytechnic Institute of Iasi, Romania

Language skill:	speaking	reading	writing
French	excellent	excellent	excellent
English	very good	excellent	excellent
Romanian	mother tongue	mother tongue	mother tongue

Current research topics: Supervisory control for smart DC microgrid: design and power optimization, Intelligent DC microgrid with smart grid communications, Building-integrated microgrid and local energy management, Photovoltaic-powered charging station for electric vehicle, Renewable energy, Photovoltaic, Smart grid, Microgrid

Research keywords: smart grid, microgrid, photovoltaic, wind turbine, hierarchical control, supervision, prediction, optimization and control

Main scientific responsibilities

- Deputy Director of French research CNRS group GDR SEEDS (Electric Power Systems in their Social Dimension) since 2018 (<http://seeds.cnrs.fr/spip.php?article92>)
- Director of interdisciplinary research unit AVENUES EA 7284 since 2016, and deputy director for 2014-2016, (<https://avenues.utc.fr/presentation/laboratoire-avenues.html>)
- Head of French research working group GT Microgrids for 2016-2018 (<http://seeds.cnrs.fr/spip.php?article132>)
- Co-leader of the thematic group of CNRS Energy Cell GT14 - New energy generation devices, since 2018
- Member of National Council of Universities for Photonic, electrical and electronic engineering (CNU 63), 2015-2016
- Member of the Board of Directors of the EEA Club (<https://www.clubeea.org/index.php/le-club/structure>), since 2016
- Director and co-supervisor of 11 PhD theses (8 defended theses and 3 on going theses)
- Scientific responsible for 9 national and regional research grants and 13 industrial contracts

- President, examiner and reviewer for 23 PhD French thesis committees (except the thesis committees of the own PhD directions) and 1 HDR French committee
- Examiner and reviewer for 3 PhD foreigner thesis committees (Spain and Denmark)
- Jury member of Thesis Prize GDR SEEDS & EEA Club, 2018 edition
- Examiner for the thesis prize of the Academy of Technologies, edition 2018

Design, implementation, development and management of experimental platforms (2008-present)

- **PLER:** Building-integrated microgrid based on 2kW photovoltaic panels, micro wind turbine 1kVA, electrochemical and electrostatic storage, diesel generator, public grid connection, load emulators, and central data acquisition,.
- **STELLA:** Microgrid for electric vehicle charging station based on 30kW photovoltaic panels, electrochemical and electrostatic storage, central data acquisition, public grid connection, building supply connection, and load emulators.

Publications: 1 scientific book, 8 scientific book chapters, 21 scientific articles in international scientific journals with peer review and listed in international databases, 6 scientific articles in national scientific journals with peer review, 45 articles in international congress with peer review and listed in international databases (2 Invited Speaker international congress communication), 14 articles in national congress with peer review, 20 articles and communications for scientific divulgation.

Bibliometric data:

ISI Web of knowledge: 652 citations; h-index: 12
 European commission H2020 expert ID: EX2014D213310
 Researcher ID: B-9693-2013; (<http://www.researcherid.com/rid/B-9693-2013>)
 SCOPUS: author ID: 35932845600; 872 citations; h-index: 14
 ORCID: <http://orcid.org/0000-0002-7358-4671>
 MENDELEY: <https://www.mendeley.com/profiles/manuela-sechilariu/>
 PUBLONS: <https://publons.com/author/562082/manuela-sechilariu#profile>
 GOOGLE SCHOLAR: <http://scholar.google.fr/citations?hl=fr&user=ZVbuyNwAAAAJ>

Scientific expertise:

- Expert / reviewer for more than 30 international and national grants:
 Canada Foundation for Innovation, Energy integration center for remote areas (isolated sites)
 CAPES-COFECUB - Brazilian research funding agency
 USP-COFECUB : Sao Paulo University (USP) research funding
 Czech Science Foundation GAČR, Intelligent control and management of energy systems
 ANR (AAP Generic Evaluation), ANRT CIFRE
 ANR PROGELEC Renewable electricity production and management
 ANR Habisol Smart building
 CNRS Interdisciplinary Energy Program (PIE)
- Reviewer for scientific articles in international scientific journals: ELSEVIER: IJEPES, ECM, MATCOM ; Wiley ETEP ; AIP JRSE ; IET CDS ; MDPI Energies, IEEE: TIE, TPEL, IAS, TSG-PES
<https://publons.com/author/562082/manuela-sechilariu#profile>
- Guest Editor for Applied Sciences, Special Issue " Intelligent Energy Management of Electrical Power Systems", 2018
- Guest Editor for Buildings, Special Issue "Advance in Building Integrated Microgrid Systems", 2016
- Organizer of Special Sessions on Microgrids for International IEEE Congress: ELECTRIMACS 2017, ISIE 2018, ICRERA 2018
- Co-chairman of Special Sessions on Microgrids for International IEEE Congress: ELECTRIMACS 2017, ICRERA 2018
- Member of Scientific Committees of International Congress: ELECTRIMACS 2017, ENEFM 2015
- Member of Technical Program Committees of International IEEE Congress: ICIT 2018, ELECTRIMACS 2019

Awards and Recognition

- Top 1% citation, from January 2014 to April 2017, of the academic field of Engineering based on a highly cited threshold for the field and publication year for the article "Building Integrated Photovoltaic System with Energy Storage and Smart Grid Communication", IEEE Trans. on Industrial Electronics, Special Issue on Distributed Generation and Micro-grids, vol. 60, no. 4, pp. 1607-1618, April 2013
- Order of Academic Palms, Knight, July 14, 2016
- Outstanding reviewer 2014: within the top 10% of reviewers for Energy Conversion and Management, Elsevier
- IMACS 2014 award: Power flow modeling for multi-source power system with smart grid interaction, vol. 91, p. 119-133, 6th most successful IMACS paper published in 2013 in MATCOM Elsevier

Supervisor of Master and/or Engineering: more of 100 master/engineering thesis

Teaching fields:

- Electrical installations, equipment, and device;
- Automation, regulations, control, and smart building
- Electricity network for street lighting

Academic activities:

2002-present: Board member of GSU Department Council

2003-present: Responsible of two engineering teaching curricula for master level (BA01, BA05)

2004-present: Member of Expert Recruiting Committee in Electrical Eng. for Associate Professor and Full Professor at ParisTech, CentraleSupélec, Université Normandie, INSA Lyon, Paris Sud, CNAM, UTBM, UTC

2015-2016: Responsible of PhD School for AVENUES research unit

2005-2014: Head of "Systems and networks for built environment", Engineering degree, GSU department major (SR)

2003-2005: Responsible of GSU major engineering degree BAT, UTC

2002-2004: Co-responsible, then Head of the master DESS Material, UTC

1998-2002: Member of Expert Recruiting Committee in Electrical Eng. for Associate Professor, Université d'Angers

1994-2002: Deputy Member of Improvements Council of the Institute IUP IMIS, Université d'Angers

1994-2002: Responsible, president of jury of the 1st year of IUP IMIS (bachelor 2nd year), Université d'Angers

Other international and national activities and research networks

2013-2014: Missions to Chile (3 universities Concepcion, Vina del Mar, and Valparaíso) for the creation of double-degree Master of Engineering (two main missions)

2005-2014: Expert and member of the Pre-selection Committee for Roberval scientific literature prize

2009: Expert and author contribution for Petit Larousse dictionary in the discipline Technology - Energies

1998-2002: Member of GDR SDH Hybrid Dynamical Systems

1998: Visiting Professor, Griffith University, School of Engineering, Brisbane, Australia

SELECTED PUBLICATIONS, COMMUNICATIONS (2012-2018)

Scientific book

- M. Sechilariu, F. Locment: "Urban DC Microgrid: intelligent control and power flow optimization", Elsevier Inc., Butterworth-Heinemann, ISBN: 978-0-12-803736-2, 306 pages, Cambridge, MA 02139, USA, 2016.
doi:10.1016/B978-0-12-803736-2.01001-X (<http://www.sciencedirect.com/science/book/9780128037362>)

Scientific book chapters

2018

- M. Sechilariu : "Decentralized production of renewable electricity. Urban microgrids and smart grid", in *Towards a city of knowledge: the use of digital and renewable energies for the production of an eco-sustainable city*, chapter 2 *Sustainable and positive energy city*, section *Renewable energies and Smart City*, book under the direction of Patrizia Inghillina, Press Lille, 2018

2017

- M. Sechilariu : "Urban DC Microgrids for Advanced Local Energy Management with Smart Grid Communication", *Energy Efficiency and Energy Related Materials*, Springer Proceedings in Energy, pp. 3-9. 2017, DOI: [10.1007/978-3-319-45677-5_1](https://doi.org/10.1007/978-3-319-45677-5_1). (Chapter published after the communication presented at the 3rd ENEFM2015 International Congress on Energy Efficiency and Energy Related Materials).

2016

- M. Sechilariu, F. Locment : "Connecting and Integrating Variable Renewable Electricity in Utility Grid", dans *Urban DC Microgrid: Intelligent Control and Power Flow Optimization*, Elsevier Inc., pp 1-33, 2016, ISBN :9780128037362.
doi:10.1016/B978-0-12-803736-2.00001-3
- M. Sechilariu, F. Locment : "Photovoltaic Source Modeling and Control", dans *Urban DC Microgrid: Intelligent Control and Power Flow Optimization*, Elsevier Inc., pp 35-91, 2016, ISBN :9780128037362. doi:10.1016/B978-0-12-803736-2.00002-5

- M. Sechilariu, F. Locment : “Backup Power Resources for Microgrid”, dans *Urban DC Microgrid: Intelligent Control and Power Flow Optimization*, Elsevier Inc., pp 93-132, 2016, ISBN :9780128037362. doi:10.1016/B978-0-12-803736-2.00003-7
- M. Sechilariu, F. Locment : “Direct Current Microgrid Power Modeling and Control”, dans *Urban DC Microgrid: Intelligent Control and Power Flow Optimization*, Elsevier Inc., pp 133-170, 2016, ISBN :9780128037362. doi:10.1016/B978-0-12-803736-2.00004-9
- M. Sechilariu, F. Locment : “Direct Current Microgrid Supervisory System Design”, dans *Urban DC Microgrid: Intelligent Control and Power Flow Optimization*, Elsevier Inc., pp 171-208, 2016, ISBN :9780128037362. doi:10.1016/B978-0-12-803736-2.00005-0
- M. Sechilariu, F. Locment : “Experimental Evaluation of Urban Direct Current Microgrid”, dans *Urban DC Microgrid: Intelligent Control and Power Flow Optimization*, Elsevier Inc., pp 209-250, 2016, ISBN :9780128037362.

Scientific articles in international journals with peer review and listed in international databases (ISI Web of Knowledge, Scopus...)

2018

- H. Liu, F. Locment, M. Sechilariu : “Integrated power control method for small scale wind generator”, *Energies*, vol. 11 no. 5, 1217, MDPI Ed., May 2018, Impact Factor 2.262. doi.org/10.3390/en11051217
<https://doi.org/10.3390/en11051217>

2017

- H. Wu, M. Sechilariu, F. Locment : “Influence of Dynamic Efficiency in the DC Microgrid Power Balance”, *Energies*, vol. 10, no.10, 1573, MDPI Ed., Oct. 2017, Impact Factor 2.262. doi:10.3390/en10101563
- C. Yin, H.Wu, F. Locment, M. Sechilariu: “Energy management of DC Microgrid based on Photovoltaic Combined with Diesel Generator and Supercapacitor”, *Energy Conversion and Management*, vol.132, pp. 14-27, 2017, Impact Factor (IF) 4.801 ; <http://dx.doi.org/10.1016/j.enconman.2016.11.018>
- H. Liu, F. Locment, M. Sechilariu: “Experimental analysis of impact of Maximum Power Point Tracking methods on energy efficiency for small-scale wind energy conversion system”, *IET Renewable Power generation*, vol. 11 Issue 2, pp. 389-397, Feb 2017, IF 1.562. DOI: 10.1049/iet-rpg.2016.0083

2016

- L. Trigueiro dos Santos, M. Sechilariu, F. Locment : “Optimized Load Shedding Approach for Grid-Connected DC Microgrid Systems under Realistic Constraints”, *Buildings*, **Special Issue on Advance in Building Integrated Microgrid Systems**, vol.6, no.4, 50, pp 1-15, MDPI Ed., December 2016. doi:10.3390/buildings6040050
- H. Al-Ghossini, F. Locment, M. Sechilariu, L. Gagneur, C. Forgez: “Adaptive-tuning of Extended Kalman Filter used in maximum power point tracking for small scale wind generator control”, *Renewable Energy*, vol. 85, pp. 1237-1245, Elsevier Ed., January 2016, IF 3.476. doi:10.1016/j.renene.2015.07.073

2015

- M. Sechilariu, F. Locment, B.C. Wang: “Photovoltaic electricity for sustainable building. Efficiency and energy cost reduction for isolated DC microgrid”, *Energies*, **Special Issue on Solar Photovoltaics Trilemma: Efficiency, Stability and Cost**, vol. 8, no.8, pp 7945-7967, MDPI Ed., August 2015, IF 2.072. doi:10.3390/en8087945
- F. Locment, M. Sechilariu: “Modeling and Simulation of DC Microgrids for Electric Vehicle Charging Stations”, *Energies*, **Special Issue on Electrical Power and Energy Systems for Transportation Applications**, vol. 8, no.5, pp 4335-4356, MDPI Ed., May 2015, IF 2.072. doi:10.3390/en8054335

2014

- B. C. Wang, M. Sechilariu, F. Locment: “Simple improved control of phase error compensation for low power operation of PV grid-connected inverter with LCL filter”, *European Journal of Electrical Engineering (EJEE)*, *Hermes Ed.*, vol. 17, no. 1-2, pp. 27-45, 2014. <http://dx.doi.org/10.3166/ejee.17.27-45>
- M. Sechilariu, B. C. Wang, F. Locment, A. Jouglet: “DC microgrid power flow optimization by multi-layer supervision control. Design and experimental validation”, *Energy Conversion and Management*, vol. 82, pp. 1-10, Elsevier Ed., March 2014, IF 3.590. doi:10.1016/j.enconman.2014.03.010
- M. Sechilariu, B. C. Wang, F. Locment: “Supervision control for optimal energy cost management in DC microgrid: design and simulation”, *International Journal of Electrical Power and Energy Systems* vol. 58, pp. 140-149, Elsevier Ed., Feb. 2014, IF 3.432. doi:10.1016/j.ijepes.2014.01.018

2013

- B. C. Wang, M. Sechilariu, F. Locment: "Power flow Petri Net modelling for building integrated multi-source power system with smart grid interaction", *Mathematics and Computers in Simulation* vol. 91, pp. 119-133, Elsevier Ed., May 2013, IF 0.856. doi:[10.1016/j.matcom.2013.01.006](https://doi.org/10.1016/j.matcom.2013.01.006)
- M. Sechilariu, B. C. Wang, F. Locment: "Building-integrated microgrid: Advanced local energy management for forthcoming smart power grid communication", *Energy and Buildings* vol. 59, pp. 236-243, Elsevier Ed., April 2013, IF 2.465. doi:[10.1016/j.enbuild.2012.12.039](https://doi.org/10.1016/j.enbuild.2012.12.039)
- M. Sechilariu, B. C. Wang, F. Locment: "Building Integrated Photovoltaic System with Energy Storage and Smart Grid Communication", *IEEE Trans. on Industrial Electronics, Special Issue on Distributed Generation and Microgrids*, vol. 60, no. 4, pp. 1607-1618, April 2013, IF 6.500. DOI:[10.1109/TIE.2012.2222852](https://doi.org/10.1109/TIE.2012.2222852)
- Houssamo, F. Locment, M. Sechilariu: "Experimental analysis of impact of MPPT methods on energy efficiency for photovoltaic power systems", *International Journal of Electrical Power and Energy Systems* vol. 46, pp. 98-107, Elsevier Ed., March 2013, IF 3.432. doi:[10.1016/j.ijepes.2012.10.048](https://doi.org/10.1016/j.ijepes.2012.10.048)

2012

- B. C. Wang, M. Sechilariu, F. Locment: "Intelligent DC Microgrid with Smart Grid Communications: Control Strategy Consideration and Design", *IEEE Trans. on Smart Grid, Special Issue on Intelligent Buildings and Home Energy Management in a Smart Grid Environment*, vol. 3, no. 4, pp. 2148-2156, Dec. 2012, IF 4.334. DOI:[10.1109/TSG.2012.2217764](https://doi.org/10.1109/TSG.2012.2217764)
- F. Locment, M. Sechilariu, I. Houssamo: "DC Load and Batteries Control Limitations for Photovoltaic Systems. Experimental Validation", *IEEE Trans. on Power Electronics*, vol. 27, no. 9, pp. 4030-4038, Sept. 2012, IF 5.726. DOI:[10.1109/TPEL.2012.2189134](https://doi.org/10.1109/TPEL.2012.2189134)

Scientific articles in international congress with peer review published and listed in international databases (ISI Web of Knowledge, Scopus...)

2018

- M. Sechilariu, F. Locment, N. Darene : "Social Acceptance of Microgrids Dedicated to Electric Vehicle Charging Stations", IEEE ICRERA 2018 7th International Conference on Renewable Energy Research and Applications, October 14-17, 2018, Paris, France
- M. Sechilariu : "Urban DC Microgrid: Modeling, Optimization and Real-Time Control", SAEI XXV Annual Seminar on Automation, Industrial Electronics and Instrumentation, Barcelona, Spain, 4-6 July, 2018. **Invited speaker**
- M. Sechilariu, L. Trigueiro Dos Santos, F. Locment : "A Conceptual Framework for Full Optimal Operation of a Grid-Connected DC Microgrid", IEEE International Conference on Industrial Electronics for Sustainable Energy Systems (IEEE- IESSES 2018), pp. 1-6, Hamilton, New Zealand, 31 January - 2 February 2018

2017

- M. Sechilariu, J. Baert, F. Locment, H. Martell-Flores, N. Molines, G. Richard, C. Henriot, C. Pronello : "Smart Microgrid and Urban Planning for Better Electromobility", IEEE Vehicle Power and Propulsion Conference (IEEE-VPPC 2017), pp. 1-6, Belfort, France, 11-14 December 2017
- C. Yin, H. Wu, M. Sechilariu, F. Locment : "Energy Management of Standalone DC Microgrid", ELECTRIMACS 2017 (International conference on theory and application of modeling and simulation in electrical power engineering including electric machines, power electronic converters and power systems), pp.1-6, Toulouse (France), 4-6 July 2017
- H. Wu, M. Sechilariu, F. Locment : "Operation of a Photovoltaic-Based DC Microgrid with Consideration of Dynamic Efficiency of Converters", ELECTRIMACS 2017 (International conference on theory and application of modeling and simulation in electrical power engineering including electric machines, power electronic converters and power systems), pp.1-6, Toulouse (France), 4-6 July 2017

2016

- L. Trigueiro Dos Santos, M. Sechilariu, F. Locment: "Prediction-based Economic Dispatch and Online Optimization for Grid-Connected DC Microgrid", ENERGYCON 2016 (IEEE International Energy Conference), pp.1-6, Leuven (Belgium), 4-8 April 2016, DOI: [10.1109/ENERGYCON.2016.7514024](https://doi.org/10.1109/ENERGYCON.2016.7514024)
- D. K. Tran, L. Trigueiro Dos Santos, M. Sechilariu, F. Locment: "Load Shedding and Restoration Real-Time Optimization for DC Microgrid Power Balancing", ENERGYCON 2016 (IEEE International Energy Conference), pp.1-6, Leuven (Belgium), 4-8 April 2016, DOI: [10.1109/ENERGYCON.2016.7514092](https://doi.org/10.1109/ENERGYCON.2016.7514092)

- C. Yin, M. Sechilariu, F. Locment: "Diesel Generator Slow Dynamic Compensation by Supercapacitors for DC Microgrid Power Balancing", ENERGYCON 2016 (IEEE International Energy Conference), pp.1-6, Leuven (Belgium), 4-8 April 2016, DOI: [10.1109/ENERGYCON.2016.7514058](https://doi.org/10.1109/ENERGYCON.2016.7514058)

2015

- M. Sechilariu: "Urban DC Microgrids for Advanced Local Energy Management with Smart Grid Communication", 3rd ENEFM2015 (International Congress on Energy Efficiency and Energy Related Materials, Oludeniz (Turkey), 19-23 October, 2015, Springer Proceedings in Energy, pp. 3-9. DOI: [10.1007/978-3-319-45677-5](https://doi.org/10.1007/978-3-319-45677-5). **Invited Speaker**
- H. Liu, F. Locment, M. Sechilariu: "Maximum Power Point Tracking Method for Small Scale Wind Generator Experimental validation", SICE'2015 (International conference on Instrumentation, Control, Information Technology and System Integration of the Society of Instrument and Control Engineers of Japan), Hangzhou (China), 28-30 July, 2015, pp. 864-869. DOI: [10.1109/SICE.2015.7285327](https://doi.org/10.1109/SICE.2015.7285327)
- L. Trigueiro Dos Santos, M. Sechilariu, F. Locment: "Prediction-based Optimization for Islanded Microgrid Resources Scheduling and Management", ISIE'2015 (IEEE International Symposium on Industrial Electronics), Buzios (Rio de Janeiro), Brazil, 3-5 June, 2015, pp. 760-765. DOI: [10.1109/ISIE.2015.7281564](https://doi.org/10.1109/ISIE.2015.7281564)
- H. Wu, M. Sechilariu, F. Locment: "Impact of power converters efficiency on building-integrated microgrid", EPE'2015 ECCE Europe (17th European Conference on Power Electronics and Application, Geneva (Suisse), 8-10 September, 2015, pp. 1-10. DOI: [10.1109/EPE.2015.7309297](https://doi.org/10.1109/EPE.2015.7309297)

2014

- H. Al-Ghossini, H. Liu, F. Locment, M. Sechilariu: "Estimation of speed rotation for MPPT used by small scale wind generator integrated in DC microgrid. Experimental validation", IECON'2014 (40th Annual Conference of the IEEE Industrial Electronics Society), Dallas (USA), October 29 - November 1, 2014, pp. 2082-2088. DOI: [10.1109/IECON.2014.7048789](https://doi.org/10.1109/IECON.2014.7048789)
- L. Trigueiro Dos Santos, M. Sechilariu, F. Locment: "Day-ahead microgrid optimal self-scheduling. Comparison between three methods applied to isolated DC microgrid", IECON'2014 (40th Annual Conference of the IEEE Industrial Electronics Society), Dallas (USA), October 29 - November 1, 2014, pp. 2010-2016. DOI: [10.1109/IECON.2014.7048778](https://doi.org/10.1109/IECON.2014.7048778)
- T. Denoix, M. Sechilariu, F. Locment: "Experimental comparison of photovoltaic panel operating cell temperature models", IECON'2014 (40th Annual Conference of the IEEE Industrial Electronics Society), Dallas (USA), October 29 - November 1, 2014, pp. 2089-2095. DOI: [10.1109/IECON.2014.7048790](https://doi.org/10.1109/IECON.2014.7048790)
- M. Sechilariu, B. C. Wang, F. Locment: "Power Management and Optimization for Isolated DC Microgrid", SPEEDAM 2014 (22nd IEEE International Symposium on Power Electronics, Electrical Drives, Automation and Motion), Ischia (Italy), 18-20 June 2014, pp. 1284-1289. DOI: [10.1109/SPEEDAM.2014.6872087](https://doi.org/10.1109/SPEEDAM.2014.6872087)
- F. Locment, M. Sechilariu: "DC Microgrid for Future Electric Vehicle Charging Station Designed by Energetic Macroscopic Representation and Maximum Control Structure", ENERGYCON 2014 (3rd IEEE International Energy Conference), Dubrovnik (Croatia), 13-16 May 2014, pp. 1454-1460. DOI: [10.1109/ENERGYCON.2014.6850614](https://doi.org/10.1109/ENERGYCON.2014.6850614)

2013

- H. Al-Ghossini, F. Locment, M. Sechilariu: "Experimental comparison of small wind turbine vector control with and without position sensor – Extended Kalman Filter application", EPE'13 – ECCE Europe (15th European Conference on Power Electronics and Applications), Lille (France), 2-6 September 2013, pp. 1-9. DOI: [10.1109/EPE.2013.6634437](https://doi.org/10.1109/EPE.2013.6634437)
- H. Al-Ghossini, B. C. Wang, F. Locment, M. Sechilariu: "Energetic macroscopic representation and inversion-based control of DC microgrid", EPE'13 – ECCE Europe (15th European Conference on Power Electronics and Applications), Lille (France), 2-6 September 2013, pp. 1-10. DOI: [10.1109/EPE.2013.6634368](https://doi.org/10.1109/EPE.2013.6634368)
- B. C. Wang, M. Sechilariu, F. Locment: "Intelligent DC Microgrid with Smart Grid Communications: Control Strategy Consideration and Design", IEEE PES GM2013 (IEEE Power & Energy Society General Meeting), Vancouver (Canada), 21-25 July 2013, pp.1. DOI: [10.1109/PESMG.2013.6672112](https://doi.org/10.1109/PESMG.2013.6672112)

2012

- B. C. Wang, I. Houssamo, M. Sechilariu, F. Locment: "A simple PV constrained production control strategy", ISIE 2012 (IEEE International Symposium on Industrial Electronics), Hangzhou, Zhejiang (China), 28-31 May 2012, pp. 969-974. DOI: [10.1109/ISIE.2012.6237220](https://doi.org/10.1109/ISIE.2012.6237220)
- Houssamo, B. C. Wang, M. Sechilariu, F. Locment, G. Friedrich: "A Simple Experimental Prediction Model of Photovoltaic Power for DC Microgrid", ISIE 2012 (IEEE International Symposium on Industrial Electronics), Hangzhou, Zhejiang (China), 28-31 May 2012, pp. 963-968. DOI: [10.1109/ISIE.2012.6237160](https://doi.org/10.1109/ISIE.2012.6237160)