

Daniel Furtado Leite

Curriculum Vitae

March 27, 2019



Contact Information

Federal University of Lavras
Department of Engineering
37200-000 Lavras, Minas Gerais, Brazil
Phone: +55 (31) 975723291; +55 (35) 38294524
E-mail: daniel.leite@deg.ufla.br; danfl7@gmail.com
Homepage: <https://sites.google.com/site/danfl7>

Employment

- 2018 – Postdoctoral Researcher
Faculty of Electrical Engineering, Supervisor: Igor Škrjanc
University of Ljubljana, UL, Ljubljana, Slovenia
Area: Similarity, Aggregation and Incremental Learning from Uncertain Data Streams
- 2014 – Adjunct Professor (*On a one-year leave since September 1st, 2018*)
Department of Engineering
Federal University of Lavras, UFLA, Lavras, Minas Gerais, Brazil
- 2013 – 2014 Postdoctoral Researcher
Graduate Program in Electrical Engineering. Supervisor: Reinaldo Palhares
Federal University of Minas Gerais, UFMG, Belo Horizonte, Minas Gerais, Brazil
Area: Adaptive and Evolving Model-based Fuzzy Control
- 2012 – 2013 Assistant Professor
Department of Electronics Engineering
Federal University of Minas Gerais, UFMG, Belo Horizonte, Minas Gerais, Brazil

Education

- 2008 – 2012 PhD in Electrical Engineering
University of Campinas, UNICAMP, Sao Paulo, Brazil
Thesis: Evolving Granular Systems. Supervisor: Fernando Gomide
- 2006 – 2007 MSc in Electrical Engineering
Pontifical Catholic University of Minas Gerais, PUC-MG, Belo Horizonte, Brazil
Thesis: Fault Diagnosis System for Electrical Machines. Supervisor: Pyramo Costa
- 2001 – 2005 BSc in Control and Automation Engineering
Pontifical Catholic University of Minas Gerais, PUC-MG, Belo Horizonte, Brazil

Research Interest

Fuzzy systems, data streams, neural networks, machine learning, feature selection, missing data. Nonlinear dynamic systems, state-space control, adaptive control, model-based fuzzy control, neuro-fuzzy control, control via brain-computer interface. Time series prediction, pattern recognition, aggregation operators, granular computing. Parkinson's disease, meteorology and several engineering topics.

Idioms

Advanced English, basic French, and native speaker of Portuguese.

Fellowships and Distinctions

2018 –	Post-Doctoral Fellowship - University of Ljubljana
2013 – 2014	Post-Doctoral Fellowship - CNPq Brazilian National Research Council
2008 – 2012	Doctoral Fellowship - CAPES Brazilian Ministry of Education
2006 – 2007	Master Fellowship - CEMIG Energy Company of Minas Gerais, Brazil
2004 – 2005	Undergraduate Fellowship - CEMIG
2003 – 2004	Undergraduate Fellowship - FAPEMIG Minas Gerais Research Foundation, Brazil

Awards

2018	Outstanding Student Paper (<i>As main supervisor of the student and project</i>) FUZZ'IEEE – IEEE International Conference on Fuzzy Systems, Rio de Janeiro, Brazil
2018	Best Paper Presentation Award (<i>As main supervisor of the student and project</i>) Meeting of the Brazilian Society of Computational and Applied Mathematics, SBMAC
2017	Early Career Award North American Fuzzy Information Processing Society, NAFIPS
2017	IEEE CIS Outstanding PhD Dissertation Award Computational Intelligence Society, IEEE - CIS
2015	Best PhD Thesis Award North American Fuzzy Information Processing Society, NAFIPS
2014	Best PhD Thesis Award in Artificial and Computational Intelligence Brazilian Computer Society, SBC
2012	2nd place - FUZZ-IEEE'12 Competition: Learning Fuzzy Systems from Data In: World Congress on Computational Intelligence, Brisbane, Australia

International grants for meetings and events

2017	FUZZ-IEEE'17 Travel Grant Recipient - IEEE CIS, Naples IT
2016	EAIS'16 Grant Recipient for a Plenary Talk - IEEE SMC Society, Natal BR
2012	WCCI'12 Travel Grant Recipient - IEEE CIS, Brisbane AU
2009	IJCNN'09 Outstanding Student Paper, Travel Grant Recipient - IEEE CIS, Atlanta US

National grants to attend conferences FUZZ-IEEE'15, NAFIPS'14, WTCF'12, WCCI'12, FUZZ-IEEE'11, WCCI'10, IPMU'10, SBAI'09, IJCNN'09, POWERENG'07

Research Experience

2018 –	Researcher - University of Ljubljana, Slovenia
2014 –	Member of the Graduate Program in Automation and Systems Engineering - Federal University of Lavras, UFLA, Brazil
2013 – 2014	Postdoctoral fellow - Federal University of Minas Gerais, UFMG, Brazil
2008 – 2012	Research assistant - University of Campinas, UNICAMP, Brazil
2004 – 2007	Research assistant - Pontifical Catholic University of Minas Gerais, PUC-MG, Brazil
2003 – 2004	Research assistant - Minas Gerais Technological Center Foundation, PUC-MG, Brazil

Teaching Experience (Total: 1749 hours)

2017 –	Control Systems Laboratory (Undergrad course, 51 hours, 3 times)
2017 –	Control of Dynamical Systems (Undergrad course, 102 hours, once)
2015 –	Linear Systems Theory – UFLA (Graduate course, 60 hours, twice)
2015 –	Fuzzy Systems – UFLA (Graduate course, 60 hours, 5 times)

2014 –	State-Space Control Systems – UFLA (Undergrad course, 68 hours, 7 times)
2014 –	Control and Automation Laboratory – UFLA (Undergrad course, 68 hours, 4 times)
2012 – 2013	Linear Dynamic Systems Lab – UFMG (Undergrad course, 30 hours, twice)
2012 – 2013	Industrial Informatics Lab – UFMG (Undergrad course, 30 hours, 5 times)
2012 – 2012	Control and Automation I Lab – UFMG (Undergrad course, 60 hours, once)
2012 – 2012	Control Theory – PUC-MG (Undergrad course, 64 hours, once)
2009 – 2009	Artificial Intelligence – UNICAMP (Undergrad course, Tutor, 60 hours, once)

Administrative Experience

2015 – 2017	Member of the Board of the Graduate Program in Automation and Systems Engineering – Federal University of Lavras, UFLA, Brazil
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Selected Publications (*Not included publications in the Portuguese language*)

[J] Journal [B] Book Chapter [C] Conference

[J16] (**Submitted**) **Daniel Leite**, Igor Škrjanc. “Ensemble of Optimal Granular Experts, OWA Aggregation, and Time Series Prediction.” *Information Sciences*, 35p. 2019.

[J15] (**Submitted**) **Daniel Leite**, Goran Andonovski, Igor Škrjanc, Fernando Gomide. “Optimal Rule-based Granular Systems from Data Streams.” *IEEE Transactions on Fuzzy Systems*, 14p. 2019.

[J14] (**Submitted**) Charles Aguiar, Daniel Pereira, **Daniel Leite**, Goran Andonovski, Igor Škrjanc. “Nonlinear Modeling and LMI Fuzzy Control of Overhead Crane Systems.” *Soft Computing*, 12p. 2019.

[J13] (**Major revisions**) Cristiano Garcia, **Daniel Leite**, Igor Škrjanc. “Incremental Missing Data Imputation for Evolving Fuzzy Granular Prediction.” *IEEE Transactions on Fuzzy Systems*, 15p. 2018.

[J12] (**Minor revisions**) Eduardo Soares, Cristiano Garcia, Ricardo Pouças, Heloísa Camargo, **Daniel Leite**. “Evolving Fuzzy Set-based and Cloud-based Unsupervised Classifiers for Spam Detection.” *IEEE Latin America Transactions*, 8p. 2018.

[J11] (**Minor revisions**) Fabricio Lucas, Pyramo Costa, Rose Batalha, **Daniel Leite**. “Adaptive Neural Network for High Impedance Fault Detection and Location in Distribution Systems with Time-Varying Distributed Generation.” *ISA Transactions*, 12p. 2018.

[J10] (**Accepted**) Igor Škrjanc, Jose Iglesias, Araceli Sanchis, **Daniel Leite**, Edwin Lughofer, Fernando Gomide. “Evolving Fuzzy and Neuro-Fuzzy Approaches in Clustering, Regression, Identification, and Classification: A Survey.” *Information Sciences*, 55p. 2019.

[C20] **Daniel Leite**, Fernando Gomide, Igor Škrjanc. “Multiobjective Optimization of Fully Autonomous Evolving Fuzzy Granular Models.” *IEEE International Conference on Fuzzy Systems – New Orleans*, 7p. 2019.

[C19] **Daniel Leite**, Charles Aguiar, Daniel Pereira, Gustavo Souza, Igor Škrjanc. “Nonlinear Fuzzy State-Space Modeling and LMI Fuzzy Control of Overhead Cranes.” *IEEE International Conference on Fuzzy Systems – New Orleans*, 6p. 2019.

[C18] Igor Škrjanc, Sašo Blažič, Goran Andonovski, Jose Antonio Iglesias, Araceli Sanchis, **Daniel Leite**. “Incremental Clustering based on Decomposed Cauchy-like Density for Imbalanced Data Classification from Data Stream.” *IEEE International Conference on Fuzzy Systems – New Orleans*, 8p. 2019.

[B5] **Daniel Leite**. “Comparison of Genetic and Incremental Learning Methods for Neural Network-based Electrical Machine Fault Detection.” In: *Predictive Maintenance in Dynamic Systems*, Springer. Editors: Edwin Lughofer, Moamar Mouchaweh, 38p. December, 2018.

[J9] Sergio Silva, Pyramo Costa, Marcio Santana, **Daniel Leite**. “Evolving Neurofuzzy Network Applied to Online Classification of High Impedance Faults.” *Neural Computing and Applications. Soft Computing Techniques: Applications and Challenges*, 14p. 2018.

- [C17] Eduardo Soares, Heloísa Camargo, Suzana Camargo, **Daniel Leite**. “Incremental Gaussian Granular Fuzzy Modeling Applied to Hurricane Track Forecasting.” IEEE World Congress on Computational Intelligence: Int Conf on Fuzzy Systems – Rio de Janeiro, 7p. Jul. 2018.
- [C16] Fabricio Lucas, Pyramo Costa, Rose Batalha, **Daniel Leite**. “High Impedance Fault Detection in Time-Varying Distributed Generation Systems using Adaptive Neural Networks.” IEEE World Congress on Computational Intelligence: Int Joint Conf on Neural Networks – Rio de Janeiro, 8p. Jul. 2018.
- [J8] Vania Mota, Flavio Damasceno, **Daniel Leite**. “Fuzzy Clustering and Fuzzy Validity Measures for Knowledge Discovery and Decision Making in Agricultural Engineering.” Computers and Electronics in Agriculture, Vol. 150, pp. 118-124. 2018.
- [J7] Eduardo Soares, Pyramo Costa, Bruno Costa, **Daniel Leite**. “Ensemble of Evolving Data Clouds and Fuzzy Models for Weather Time Series Prediction.” Applied Soft Computing, Vol. 64, pp: 445-453, 2018.
- [J6] Sergio Silva, Pyramo Costa, Alcyr Lacerda, Franciele Alves, Maury Gouvea, **Daniel Leite**. “High Impedance Fault Detection in Power Distribution Systems using Wavelet Transform and Evolving Neural Network.” Electric Power Systems Research, Vol. 154, pp: 474-483, 2018.
- [C15] Vania Mota, Flavio Damasceno, Eduardo Soares, **Daniel Leite**. “Fuzzy Clustering Methods Applied to the Evaluation of Compost Bedded Pack Barns.” IEEE International Conference on Fuzzy Systems - Naples, 6p. 2017.
- [C14] Eduardo Soares, Vania Mota, Ricardo Poucas, **Daniel Leite**. “Cloud-Based Evolving Intelligent Method for Weather Time Series Prediction.” IEEE International Conference on Fuzzy Systems - Naples, 6p. 2017.
- [J5] **Daniel Leite**, Pyramo Costa, Fernando Gomide. “A Review on Evolving Interval and Fuzzy Granular Systems.” Learning and Nonlinear Models, Vol. 14, Issue 2, pp: 36-54, 2016.
- [C13] **Daniel Leite**, Marcio Santana, Ana Borges, Fernando Gomide. “Fuzzy Granular Neural Network for Incremental Modeling of Nonlinear Chaotic Systems.” IEEE World Congress on Computational Intelligence: International Conference on Fuzzy Systems, pp: 64-71, Jul. 2016.
- [B4] **Daniel Leite**, Fernando Gomide. “Incremental Granular Fuzzy Modeling using Imprecise Data Streams.” In: Fifty Years of Fuzzy Logic and Its Applications, Springer – Switzerland, Vol. 326, pp: 107-124, 2015.
- [J4] **Daniel Leite**, Reinaldo Palhares, Victor Campos, Fernando Gomide. “Evolving Granular Fuzzy Model-Based Control of Nonlinear Dynamic Systems.” IEEE Transactions on Fuzzy Systems, Vol. 23, pp: 923-938, 2015.
- [C12] Lourenco Bueno, Pyramo Costa, Israel Mendes, Enderson Cruz, **Daniel Leite**. “Evolving Ensemble of Fuzzy Models for Multivariate Time Series Prediction.” IEEE International Conf. on Fuzzy Systems, Istanbul, TR, 6p. Jul. 2015.
- [C11] **Daniel Leite**, Pyramo Costa, Fernando Gomide. “Evolving Granular Systems.” Joint Conference on Robotics and Intelligent Systems, Sao Carlos, BR, 12p. 2014.
- [C10] **Daniel Leite**, Fernando Gomide, Walmir Caminhas, Andre Lemos, Reinaldo Palhares. “Parameter Estimation of Dynamic Fuzzy Models from Uncertain Data Streams.” North American Fuzzy Information Processing Society Conference, Boston, US, pp: 1-7, Jun. 2014.
- [J3] **Daniel Leite**, Pyramo Costa, Fernando Gomide. “Evolving granular neural networks from fuzzy data streams.” Neural Networks, Vol. 38, pp: 1-16, 2012.
- [C9] **Daniel Leite**, Pyramo Costa, Fernando Gomide. “Evolving granular neural network for fuzzy time series forecasting.” World Congress on Computational Intelligence: IEEE International Joint Conference on Neural Networks, Brisbane, AU, 8p. Jun. 2012.
- [C8] Andre Lemos, **Daniel Leite**, Leandro Maciel, Rosangela Ballini, Walmir Caminhas, Fernando Gomide. “Evolving fuzzy linear regression tree approach for forecasting sales volume of petroleum products.” World Congress on Computational Intelligence: IEEE International Conference on Fuzzy Systems, Brisbane, AU, 8p. Jun. 2012.
- [J2] **Daniel Leite**, Rosangela Ballini, Pyramo Costa, Fernando Gomide. “Evolving fuzzy granular modeling from nonstationary fuzzy data streams.” Evolving Systems, Springer, Vol. 3, Issue 2, pp: 65-79, 2012.

- [B3] **Daniel Leite**, Pyramo Costa, Fernando Gomide. “Interval approach for evolving granular system modeling.” In: Learning in Non-stationary Environments: Methods and Applications, Springer – New York, pp: 271-300, 2012.
- [C7] **Daniel Leite**, Fernando Gomide, Rosangela Ballini, Pyramo Costa. “Fuzzy granular evolving modeling for time series prediction.” IEEE International Conference on Fuzzy Systems. Taipei, TW. 8p. Jun. 2011.
- [B2] **Daniel Leite**, Fernando Gomide. “Evolving linguistic fuzzy models from data streams.” Studies in Fuzziness and Soft Computing: A Homage to Abe Mamdani, Springer, pp: 209-223, 2012.
- [C6] **Daniel Leite**, Pyramo Costa, Fernando Gomide. “Evolving granular neural network for semi-supervised data stream classification.” World Congress on Computational Intelligence: IEEE Joint Conference on Neural Networks. Barcelona, ES. pp: 1877-1884, Jul. 2010.
- [B1] **Daniel Leite**, Pyramo Costa, Fernando Gomide. “Granular approach for evolving systems modeling.” Lecture Notes in Artificial Intelligence (LNAI/IPMU). Vol. 6178, pp: 340-349. Springer – Heidelberg, 2010.
- [J1] **Daniel Leite**, Michel Hell, Pyramo Costa, Fernando Gomide. “Real-time fault diagnosis of nonlinear systems.” Nonlinear Analysis: Theory, Methods & Applications. Vol. 71-12, pp: 2665-2673, Dec. 2009.
- [C5] **Daniel Leite**, Pyramo Costa, Fernando Gomide. “Evolving granular classification neural networks.” IEEE International Joint Conference on Neural Networks. Atlanta, US. pp: 1736-1743, Jun. 2009.
- [C4] **Daniel Leite**, Romis Attux, Fernando Von Zuben, Pyramo Costa, Fernando Gomide. “Evolutionary neural network applied to induction motors stator fault detection.” IEEE International Electric Machines and Drives Conference. Miami, pp: 1721-1728, May 2009.
- [C3] **Daniel Leite**, Pyramo Costa, Fernando Gomide. “Interval-based evolving modeling.” IEEE Symposium Series on Computational Intelligence: Workshop on Evolving Systems. Nashville, US. pp: 1-8, Mar. 2009.
- [C2] **Daniel Leite**, Michel Hell, Pyramo Costa. “Real-time model-based fault detection and diagnosis for alternators and induction motors.” IEEE International Electric Machines and Drives Conference. Antalya, TR. pp: 202-207, May 2007.
- [C1] **Daniel Leite**, Pyramo Costa. “Induction motors modeling and fuzzy logic based turn-to-turn fault detection and localization.” IEEE International Conf. on Power Eng., Energy and Electrical Drives. Setubal, PT. pp: 90-95, Apr. 2007.

Citations to Publications

Scopus: 254
 Google Scholar: 441

Selected Talks

[T] Talk [I] Invited Talk

- [T14] High Impedance Fault Detection in Time-Varying Distributed Generation Systems using Adaptive Neural Networks. World Congress on Computational Intelligence, Rio de Janeiro, BR, 2018.
- [T13] Cloud-Based Evolving Intelligent Method for Weather Time Series Prediction
 IEEE International Conference on Fuzzy Systems, Naples, IT, 2017.
- [T12] Fuzzy Clustering Methods Applied to the Evaluation of Compost Bedded Pack Barns
 IEEE International Conference on Fuzzy Systems, Naples, IT, 2017.
- [I5] Evolving Granular Modeling from Uncertain Data Streams
 Invited plenary talk at IEEE Conference on Evolving and Adaptive Intelligence Systems, Natal, BR, 2016.
- [T11] Evolving Ensemble of Fuzzy Models for Multivariate Time Series Prediction
 IEEE International Conference on Fuzzy Systems, Istanbul, TR, 2015.
- [I4] Evolving Neuro-Fuzzy Network Applied to Incipient Detection of Parkinson’s Disease
 Invited talk at Pontifical Catholic University of Minas Gerais, Belo Horizonte, BR, 2015.

- [T10] Evolving Granular Systems
Joint Conference on Robotics and Intelligent Systems, Sao Carlos, BR, 2014.
- [T9] Parameter Estimation of Dynamic Fuzzy Models from Uncertain Data Streams
North American Fuzzy Information Processing Society Conference, Boston, US, 2014.
- [I3] Granular Computing
Invited talk at the Faculty of Mathematics: Federal University of Uberlandia, Uberlandia, BR, 2012.
- [T8] Evolving Granular Neural Network for Fuzzy Time Series Forecasting
World Congress on Computational Intelligence, Brisbane, AU, 2012.
- [T7] Evolving Fuzzy Linear Regression Tree Approach for Forecasting Sales Volume of Petroleum Products
World Congress on Computational Intelligence, Brisbane, AU, 2012.
- [T6] Fuzzy Granular Evolving Modeling for Time Series Prediction
IEEE International Conference on Fuzzy Systems, Taipei, TW, 2011.
- [T5] Evolving Granular Neural Network for Semi-supervised Data Stream Classification
World Congress on Computational Intelligence, Barcelona, ES, 2010.
- [T4] Granular Approach for Evolving Systems Modeling
International Conference on Information Processing and Management of Uncertainty, Dortmund, GE, 2010.
- [T3] Evolving Granular Classification Neural Networks
IEEE International Joint Conference on Neural Networks, Atlanta, US, 2009.
- [I2] Evolving Intelligent Systems
Invited talk at Pontifical Catholic University of Minas Gerais, Belo Horizonte, BR, 2009.
- [T2] Real-Time Fault Diagnosis of Nonlinear Systems
World Congress of Nonlinear Analysts, Orlando, US, 2008.
- [T1] Induction Motors Modeling and Fuzzy Logic Based Turn-To-Turn Fault Detection
IEEE Conference on Power Engineering, Setubal, PT, 2007.
- [I1] Fuzzy Rule-Based Systems in Fault Diagnosis
Invited talk at Pontifical Catholic University of Minas Gerais, Belo Horizonte, BR, 2007.

Associate Editor

2018 – Evolving Systems

Journal Reviewer

2018 – Mathematics and Computers in Simulation
 2018 – IEEE Transactions on Cybernetics
 2017 – Signal Processing
 2016 – IEEE Transactions on Industrial Electronics
 2015 – Fuzzy Optimization and Decision Making
 2014 – Neural Computing and Applications
 2014 – Computational and Mathematical Methods in Medicine
 2013 – International Journal of Machine Learning and Cybernetics
 2013 – Applied Soft Computing
 2013 – Expert Systems with Applications
 2013 – International Journal of Electrical Power & Energy Systems
 2013 – Soft Computing
 2013 – Information Sciences
 2012 – IEEE Transactions on Fuzzy Systems
 2012 – IEEE Systems Journal

2012 – IEEE Transactions on Neural Networks and Learning Systems
2011 – Journal of Robotics
2010 – Evolving Systems

Conference Reviewer

IJCNN'19 – International Joint Conference on Neural Networks, 2019
IFAC'18 – IFAC Symposium on Robust Control Design, 2018
NAFIPS'18 – North American Fuzzy Information Processing Society Annual Conference, 2018
EAIS'18 – IEEE Conference on Evolving and Adaptive Intelligent Systems, 2018
WCCI'18 – World Congress on Computational Intelligence, 2018
FUZZ-IEEE'18 – IEEE International Conference on Fuzzy Systems, 2018
IJCNN'18 – International Joint Conference on Neural Networks, 2018
EAIS'17 – IEEE Conference on Evolving and Adaptive Intelligent Systems, 2017
IJCNN'17 – International Joint Conference on Neural Networks, 2017
EAIS'16 – IEEE Conference on Evolving and Adaptive Intelligent Systems, 2016
WCCI'16 – World Congress on Computational Intelligence, 2016
FUZZ-IEEE'16 – IEEE International Conference on Fuzzy Systems, 2016
FUZZ-IEEE'15 – IEEE International Conference on Fuzzy Systems, 2015
SBAI'15 – Simpósio Brasileiro de Automação Inteligente, 2015
CBIC'15 – Brazilian Congress on Computational Intelligence, 2015
ICMLA'15 – International Conference on Machine Learning and Applications, 2015
SSCI'14 – Symposium Series on Computational Intelligence, 2014
WCCI'14 – World Congress on Computational Intelligence, 2014
FUZZ-IEEE'14 – IEEE International Conference on Fuzzy Systems, 2014
CBSF'14 – Brazilian Congress on Fuzzy Systems, 2014
CBA'14 – Congresso Brasileiro de Automática, 2014
ICACCI'14 – International Conference on Advances in Computing, Communications & Informatics, 2014
ICMLA'13 – International Conference on Machine Learning and Applications, 2013
FUZZ-IEEE'13 – IEEE International Conference on Fuzzy Systems, 2013
SSCI'13 – Symposium Series on Computational Intelligence, 2013
EAIS'13 – Workshop on Evolving and Adaptive Intelligent Systems, 2013
CBSF'12 – Brazilian Congress on Fuzzy Systems, 2012
WCCI'12 – World Congress on Computational Intelligence, 2012
FUZZ-IEEE'12 – IEEE International Conference on Fuzzy Systems, 2012
SBAI'11 – Simpósio Brasileiro de Automação Inteligente, 2011
FUZZ-IEEE'11 – IEEE International Conference on Fuzzy Systems, 2011
SSCI'11 – Symposium Series on Computational Intelligence, 2011
EAIS'11 – Workshop on Evolving and Adaptive Intelligent Systems, 2011
WCCI'10 – World Congress on Computational Intelligence, 2010
FUZZ-IEEE'10 – IEEE International Conference on Fuzzy Systems, 2010
ICEM'10 – International Conference on Electrical Machines, 2010
CBA'10 – Congresso Brasileiro de Automática, 2010
IEMDC'09 – IEEE International Electric Machines and Drives Conference, 2009
ICIT'08 – IEEE International Conference on Industrial Technology, 2008
IEMDC'07 – IEEE International Electric Machines and Drives Conference, 2007

Conference/Seminar Organization

EAIS'20 – IEEE Conf. on Evolving and Adaptive Intelligent Systems, 2020 (Program committee member)
DEEP-ML'19 – International Conference on Deep Learning and Machine Learning in Emerging Applications, 2019 (Program committee member)
FUZZ-IEEE'18 – IEEE International Conference on Fuzzy Systems, 2018 (Chair: Knowledge Management, Data Bases, and Information Retrieval; Fuzzy Control)
EAIS'18 – IEEE Conf. on Evolving and Adaptive Intelligent Systems, 2018 (Program committee member)
CCS'17/2 – III Colloquium on Control Systems, 2017 (General coordinator – Local event: DEG/UFLA)

SFS'17/2 – IV Seminar on Fuzzy Systems, 2017 (General coordinator – Local event: DEG/UFLA)
 CCS'17/1 – II Colloquium on Control Systems, 2017 (General coordinator – Local event: DEG/UFLA)
 SFS'17/1 – III Seminar on Fuzzy Systems, 2017 (General coordinator – Local event: DEG/UFLA)
 EAIS'17 – IEEE Conf. on Evolving and Adaptive Intelligent Systems, 2017 (Program committee member)
 CCS'16/2 – I Colloquium on Control Systems, 2016 (General coordinator – Local event: DEG/UFLA)
 SFS'16 – II Seminar on Fuzzy Systems, 2016 (General coordinator – Local event: DEG/UFLA)
 EAIS'16 – IEEE Conf. on Evolving and Adaptive Intelligent Systems, 2016 (Program committee member)
 SFS'15 – I Seminar on Fuzzy Systems, 2015 (General coordinator – Local event: DEG/UFLA)
 FUZZ-IEEE'12 – IEEE International Conference on Fuzzy Systems, 2012 (Chair: Real-World Applications V)
 SBAI'11 – Brazilian Symposium on Intelligent Automation, 2011 (Session chair: Intelligent Systems III)

Academic Advising

2018 – MSc student: Danyellen Gonçalves
 Evolving Intelligent Control of Mobile Robots via Brain-Computer Interface

2018 – Undergraduate student: Karolina Cardoso Faria
 Spatio-Temporal Pattern Recognition of Brain Signals from EEG Data

2018 – MSc student: Daniele Aparecida de Oliveira Silva (co-supervision)
 Online Monitoring and Fuzzy Control of the Roasting Conditions of Arabica Coffee

2018 – MSc student: Jordann Alessandro Rosa Almeida
 LMI Functional Fuzzy Control of Nonlinear Chaotic Systems

2018 – Undergraduate student: Mateus Santos
 Neural Networks applied to Commodity Price Forecasting: A Study on Arabica Coffee

2017 – MSc student: Tamyres Pereira
 On Similarity and Aggregation of Heterogeneous Data Streams

2017 – MSc student: João Paulo de Oliveira Tavares (co-supervision)
 Intelligent Evolving Fuzzy Control for Autonomous Vehicle Navigation

2018 – 2018 Undergraduate student: Carla Freitas Amaral
 Fuzzy and PID Approaches for Distillation Column Control

2017 – 2018 Undergraduate student: Clayton Henrique da Silva
 Brain-Computer Interface for Controlling Mobile Robots

2017 – 2018 MSc student: Cristiano Mesquita Garcia
 Incremental Missing Data Imputation via Modified Granular Evolving Fuzzy Model

2017 – 2018 Undergraduate student: Charles Aguiar
 Intelligent Fuzzy Control of Gantry Crane Systems

2016 – 2018 MSc student: Stella Marys Dornelas Lamounier
 Incremental Fuzzy Modeling for Early Detection and Severity Estimation of the Parkinson's Disease based on Speech Signals

2015 – 2018 PhD student: Vania Correa Mota (co-supervision)
 On Fuzzy Rule Based and Geostatistical Approaches for Feature Evaluation in Compost Bedded Pack Barns

2017 – 2018 MSc student: Fabricio Pereira Lucas (co-supervision)
 Evolving Granular Neural Network applied to High Impedance Fault Detection in Distribution Networks

2017 – 2018 Undergraduate student: Larissa de Souza Pinto
 Adaptive Fuzzy Control for Autonomous Navigation in Unknown Environments

2017 – 2018 Undergraduate student: Jordann Alessandro Rosa Almeida
 LMI Functional Fuzzy Control based on Parallel Distributed Compensation

- 2017 – 2017 Undergraduate student: Celio Augusto Terra de Souza
Interval Control of Linear Systems with Unstructured Parametric Uncertainty
- 2015 – 2017 MSc student: Eduardo Almeida Soares
Rule-based Evolving Systems for Weather Time Series Prediction
- 2015 – 2017 MSc student: Ricardo de Paula Poucas
Data Clouds and Granule-based Evolving Models for Spam Detection
- 2017 – 2017 Undergraduate students: Nathalia Souza, Isabella Oliveira (co-supervision)
Instrumentation and Automation of a Corn Milling Plant
- 2015 – 2017 MSc student: Marcio Wladimir Santana
Incremental Clustering of Data Streams for Power Quality Monitoring and Analysis
- 2016 – 2016 Undergraduate student: Ariadne de Lourdes Justi Bertonlin (co-supervision)
On the use of the Synchronous Reference Frame and the IEEE Standard 1459 for Calculating the Electric Power of Systems subject to Voltage Fluctuations
- 2015 – 2016 MSc student: Sergio Ribeiro Silva (co-supervision)
High Impedance Fault Detection in Medium Voltage Networks Using Wavelet Transform and Evolving Artificial Neural Network
- 2015 – 2016 Undergraduate student: Luciano Henrique Silveira Melo
Intelligent Low-Cost Temperature Monitoring: PLC interfacing Arduino
- 2015 – 2016 Undergraduate student: Ana Paula Ribeiro Borges
Induction Motors Stator Windings Fault Detection via Supervised Neural Networks
- 2015 – 2015 Undergraduate Student: Maria Tailani Borges
Adaptive Fuzzy Control for Robust Sensor-Based Navigation
- 2015 – 2015 Undergraduate Student: Lucas Marques
Adaptive Fuzzy Control for Autonomous Navigation and Obstacle Avoidance
- 2015 – 2015 Undergraduate Student: Bruna Cunha
Adaptive Fuzzy Modeling for Meteorological Time Series Prediction
- 2015 – 2015 Undergraduate Student: Thiago Juvenal Ribeiro
Evolving Fuzzy Modeling Applied to Biomedical Data Classification
- 2015 – 2015 Undergraduate student: Elias Fornazari Garcia
Supervised Neural Networks Applied to Power Generation Systems Modeling
- 2014 – 2014 Undergraduate Student: Lais Souza Ramos
Adaptive Fuzzy Control for Robust Sensor-Based Navigation
- 2013 – 2015 MSc Student: Lourenco Bueno (co-supervision)
Evolving Ensemble of Fuzzy Models for Multivariate Time Series Prediction
- 2011 – 2013 MSc Student: Enderson Cruz (co-supervision)
Intelligent Evolving Systems Applied to Time Series Prediction
- 2011 – 2013 MSc Student: Israel Mendes (co-supervision)
Evolving Intelligent Embedded Systems
- 2009 – 2009 Undergraduate Student: Lucas Nascimento
Artificial Neural Networks for Incipient Fault Detection in Power Transformers
- 2008 – 2008 Undergraduate Student: Alan Barbosa
Principal Component Analysis for Fault Detection and Diagnosis

Thesis and Dissertation Committees

- 2019 MSc Dissertation – Leonardo Schick (UFSCAR)
Distributed d-FuzzStream: Nonsupervised Distributed Fuzzy Clustering in Continuous Data Streams
- 2019 MSc Dissertation – Brendo Silva Barbosa (PUC-MG)
Virtual Sensors for Detection and Location of Partial Discharge in Power Transformers
- 2018 MSc Dissertation – Cristiano Mesquita Garcia (UFLA)
Incremental Missing Data Imputation via Modified Granular Evolving Fuzzy Model
- 2018 MSc Dissertation – Stella Marys Dornelas Lamounier (UFLA)
Incremental Fuzzy Modeling for Early Detection and Severity Estimation of the Parkinson's Disease based on Speech Signals
- 2018 PhD Thesis – Vania Correa Mota (UFLA)
On Fuzzy Rule Based and Geostatistical Approaches for Feature Evaluation in Compost Bedded Pack Barns
- 2018 MSc Dissertation – Fabricio Pereira Lucas (PUC-MG)
Evolving Granular Neural Network applied to High Impedance Fault Detection in Distribution Networks
- 2017 MSc Dissertation – Eduardo Almeida Soares (UFLA)
Rule-based Evolving Systems for Weather Time Series Prediction
- 2017 MSc Dissertation – Ricardo de Paula Pouças (UFLA)
Data Clouds and Granule-based Evolving Models for Spam Detection
- 2017 MSc Dissertation – Rita Georgina Guimarães (UFLA)
Improving Sentiment Analysis in Social Networks using Lexical Resources and User Profiles
- 2017 PhD Thesis – Orlando Donato Rocha Filho (UFMA)
Maximum-Likelihood Evolving Fuzzy Clustering Applied to Nonstationary Dynamic Systems
- 2017 MSc Dissertation – Marcio Wladimir Santana (UFLA)
Incremental Clustering of Data Streams for Power Quality Monitoring and Analysis
- 2017 MSc Dissertation – Bruno Elyezer Fonseca (UFLA)
Automation of a Cyclone Particle Dryer: Computational Intelligence
- 2017 MSc Dissertation – Franciele Aparecida de Souza (PUC-MG)
Analysis of Artificial Neural Network Models for Electroencephalogram-based Classification of Motor Imagery
- 2017 MSc Dissertation – Thais Martins Mendes (UFLA)
Multidimensional Monitoring and Novelty Detection for Power Quality
- 2016 MSc Dissertation – Oscar Hernan Samudio Legarda (PUC-RJ)
A Fuzzy Classification System for High Dimensionality Problems
- 2016 MSc Dissertation – Sergio Ribeiro Silva (PUC-MG)
High Impedance Fault Detection in Medium Voltage Networks Using Wavelet Transform and Evolving Artificial Neural Network
- 2015 MSc Dissertation – Alcyr Silva Lacerda (PUC-MG)
Computational Intelligence Applied to Power Distribution Systems Fault Detection
- 2015 MSc Dissertation – Adalberto Mendes (UFLA)
Implementation of a Board Game in an Embedded System
- 2015 MSc Dissertation – Lourenco Alves Campos Bueno (PUC-MG)
Evolving Ensemble of Fuzzy Models for Multivariate Time Series Prediction

- 2015 PhD Thesis – Leandro dos Santos Maciel (UNICAMP)
Evolving Possibilistic Fuzzy Modeling
- 2014 PhD Thesis – Alisson Silva (UFMG)
Evolving Neurofuzzy Systems: New Learning Algorithms and Applications
- 2013 MSc Dissertation – Fernando Luis Bordignon (UNICAMP)
Extreme Learning for Uninorm-based Neurofuzzy Networks
- 2013 MSc Dissertation – Enderson Cruz (PUC-MG)
Evolving Intelligent Systems Applied to Time Series Prediction
- 2011 MSc Dissertation – Luiz Eduardo Bergo Jr (PUC-MG)
Granular Evolving Neuro-Fuzzy Approach for Dynamic Coupling of Moving Trains

Research and Development Projects

- 2018 – Pattern Recognition and Intelligent Control of Mobile Robots via Brain-Machine Interface
Funded by: FAPEMIG (Role: Coordinator)
- 2017 – On Similarity, Aggregation and Incremental Learning from Heterogeneous Data Streams
Partially Funded by: UL (Role: Coordinator/Researcher. This is also the title of the project of
my postdoctoral position at the University of Ljubljana). Supported by: UFLA
- 2016 – Development and Computational-Intelligence-Based Control of Hand Prosthesis
Supported by: UFLA (Role: Participant Researcher)
- 2015 – Development of a Virtual Measurement System for Induction Motors Fault Analysis
Funded by: UFLA (Role: Participant Researcher)
- 2015 – Adaptive Fuzzy Modeling for Meteorological Time Series Prediction
Supported by: UFLA (Role: Coordinator)
- 2015 – Fuzzy Evolving Modeling Applied to Biomedical Data Classification
Supported by: UFLA (Role: Coordinator)
- 2014 – 2018 Adaptive Fuzzy Control for Sensor-based Robust Navigation
Funded by: CAPES (Role: Coordinator)
- 2014 – 2017 Computational Intelligence Applied to Biomedical Signal Processing
Funded by: CNPq (Role: Participant Researcher)
- 2013 – 2014 Evolving Granular Control of Nonlinear Dynamic Systems
Funded by: CNPq (Individual Project – 1st postdoctoral position)
- 2012 – 2015 Evolving Intelligent Systems for Monthly Weather Forecast
Funded by: Votorantim Group, ANEEL (Role: External Collaborator)
- 2008 – 2012 Evolving Granular Systems
Funded by: CAPES (Individual Project - PhD)
- 2006 – 2010 Development of a Power Transformer Diagnosis Center for Transmission Substations
Funded by: CEMIG, ANEEL (Role: Participant Researcher)
- 2004 – 2007 Fault Detection and Diagnosis in Synchronous Hydrogenerators
Funded by: CEMIG, ANEEL (Role: Participant Researcher)

Professional Affiliations

IEEE Computational Intelligence Society
 IEEE System, Man, and Cybernetics Society
 IEEE Control Systems Society
 International Federation of Automatic Control