

Refereed Conference Papers (All):

1. A.C. Zavoianu, E. Lughofer, R. Pollak, P. Meyer-Heye, C. Eitzinger, T. Radauer, **Multi-Objective Knowledge-Based Strategy for Process Parameter Optimization in Micro-Fluidic Chip Production**, [Proceedings of the SSCI 2017 Conference \(CIES workshop\)](#), Honolulu, Hawaii, to appear, 2017.
2. E. Lughofer, R. Pollak, A.C. Zavoianu, P. Meyer-Heye, H. Zörrer, C. Eitzinger, J. Haim, T. Radauer, **Self-Adaptive Time-Series Based Forecast Models for Predicting Quality Criteria in Microfluidics Chip Production**, Proceedings of the [IEEE Cybernetics Conference 2017](#), Exeter, U.K., 2017.
3. R. Nikzad Langerodi, E. Lughofer, T. Reischer, W. Kantner, M. Pawliczek and M. Brandstetter, **Improved drift handling in melamine resin production by ensemble partial least squares and incremental Page-Hinkley testing**, Proceedings of the [EuroAnalysis 2017 Conference](#), Stockholm, Sweden.
4. E. Lughofer, M. Pratama and I. Skrjanc, **Incremental Rule Splitting in Generalized Evolving Fuzzy Regression Models**, Proceedings of the [IEEE Conference on Evolving and Adaptive Intelligent Systems 2017](#), Ljubljana, Slovenia, pp 1--8.
5. W. Zellinger, E. Lughofer, S. Saminger-Platz, T. Grubinger and T. Natschläger. **Central Moment Discrepancy (CMD) for Domain-Invariant Representation Learning**. Proceedings of the 5th [International Conference on Learning Representations \(ICLR 2017\)](#), to appear, Toulon, France, 2017.
6. M. Pratama, P.P. Angelov, J. Lu, E. Lughofer, M. Seera and Chee Peng Lim. **A Randomized Neural Network for Data Streams**. Proceedings of the [International Joint Conference on Neural Networks \(IJCNN 2017\)](#), to appear, Anchorage, Alaska, U.S.A.
7. G. Andonovski, E. Lughofer and I. Skrjanc. **A Comparison of RECCO and FCPFC Controller on Nonlinear Chemical Reactor**. The 36th [IASTED International Conference on Modelling, Identification and Control](#), Innsbruck, Austria, 2017, to appear.
8. R. Nikzad-Langerodi, E. Lughofer, T. Zahel, P. Sagmeister, C. Herwig. **A novel framework for automated feed phase identification**. Proceedings of the 4th [European Conference on Process Analytics and Control Technology \(EuroPACT\) 2017](#), Potsdam, to appear.
9. A.C. Zavoianu, G. Bramerdorfer, E. Lughofer and S. Saminger-Platz, **Multi-Objective Topology Optimization of Electrical Machine Designs using Evolutionary Algorithms with Discrete and Real Encodings**, Proceedings of the [EuroCAST Conference 2017](#), Las Palmas de Gran Canaria, Spain, to appear
10. E. Lughofer, G. Kronberger, M. Kommenda, S. Saminger-Platz, A. Promberger, F. Nickel, S. Winkler and M. Affenzeller. **Robust Fuzzy Modeling and Symbolic Regression for Establishing Accurate and Interpretable Prediction Models in Supervising Tribological Systems**, Proceedings of the 8th International [Conference on Fuzzy Computation Theory and Applications \(FCTA\) 2016](#), pp. 51--63, 2016.
11. E. Weigl, A. Walch, U. Neissl, P. Meyer-Heye, W. Heidl, C. Eitzinger, T. Radauer and E. Lughofer. **MapView: Graphical Data Representation for Active Learning**, Proceedings of the [iKnow Conference 2016](#), Graz, Austria, 2016.
12. E. Lughofer, R. Richter, U. Neissl, W. Heidl, C. Eitzinger and T. Radauer, **Advanced Linguistic Explanations of Classifier Decisions for Users' Annotation Support**, Proceedings of the [IEEE Intelligent](#)

[Systems Conference 2016](#), Sofia, Bulgaria, 2016, pp. 421—432

13. F. Serdio and E. Lughofer, **A Fault Detection and Isolation Framework for Repeatable and Comparable Experimentation**, Proceedings of the PHM Conference/Society, Bilbao, on-line and in press, 2016
14. M. Pratama, E. Lughofer, M.J. Err, W. Rahayu and T. Dillon, **Evolving Type-2 Recurrent Fuzzy Neural Network**, Proceedings of the IJCNN 2016 conference (under the scope of the [WCCI 2016 conference](#)), Vancouver, Canada, 2016, to appear
15. C. Cernuda, E. Lughofer, T. Reischer, W. Kantner, M. Pawliczek and M. Brandstetter, **On-line Outlier/Redundancy Filtering and Semisupervised Incremental Calibration Modeling in Melamine Resin Production using FT-NIR Spectra**, Proceedings of the CAC Conference 2016, Barcelona
16. E. Lughofer, E. Weigl, W. Heidl, C. Eitzinger and T. Radauer, **Drift Detection in Data Stream Classification without Fully Labelled Instances**, Proceedings of the [Evolving and Adaptive Intelligent Systems Conference \(EAIS\) 2015](#), Douai, France, pp. 1-8, 2015
17. J. Liu, E. Lughofer, X. Zeng and L. Wang, **Affective Property Computation of Visual Texture**, Proceedings of the [10th International Conference on Intelligent Systems and Knowledge Engineering \(ISKE'15\)](#), pp. 52-57, Taiwan, November 2015
18. A.-C. Zavoianu, E. Lughofer, G. Bramerdorfer, W. Amrhein and S. Saminger-Platz, **A Surrogate-Based Strategy for Multi-Objective Tolerance Analysis in Electrical Machine Design**, Proceedings of the [17th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing \(SYNASC\) 2015](#), Timisoara, 2015
19. C. Cernuda, E. Lughofer, T. Reischer, W. Kantner, M. Pawliczek and M. Brandstetter, **Dynamically Slided Chemometric Models for Robust On-line Prediction of Cloud Point in Melamine Resin Production**, Proceedings of the [Conferentia Chemometrica](#), Budapest, September 2015
20. C. Cernuda, E. Lughofer, H. Klein, C. Forster, M. Pawliczek and M. Brandstetter, **Quantification of quality parameters in unfermented beer using a flexible support vector regression variation**, Proceedings of the [SSC14 conference](#), 2015
21. E. Lughofer, **Efficient Sample Selection in Data Stream Regression using Evolving Generalized Fuzzy Models**, Proceedings of the [International FUZZ-IEEE Conference 2015](#), Istanbul, pp. 1-8, 2015
22. E. Lughofer, E. Weigl, W. Heidl, C. Eitzinger and T. Radauer, **Fast and Economic Integration of New Classes On the Fly in Evolving Fuzzy Classifiers using Class Decomposition**, Proceedings of the [International FUZZ-IEEE Conference 2015](#), Istanbul, pp. 1-8, 2015
23. G. Bramerdorfer, A.-C. Zavoianu, S. Silber, E. Lughofer, W. Amrhein, **Speed Improvements for the Optimization of Electrical Machines - a Survey**, Proceedings of the [2015 IEEE International Conference on Electric Machines Drives Conference \(IEMDC\)](#), Coeur d'Alene, Idaho, USA, 2015
24. E. Lughofer, E. Weigl, W. Heidl and T. Radauer, **Dynamic Inclusion of New Event Types in Visual Inspection using Evolving Classifiers**, Proceedings of the [International Conference on Machine Learning and Applications \(ICMLA 2014\)](#), pp. 487-494, Detroit, U.S.A., 2014
25. F. Serdio, C. Zavoianu, E. Lughofer, K. Pichler, T. Buchegger and H. Efendic, **Hybrid Genetic-Fuzzy Systems for Improved Performance in Residual-Based Fault Detection**, Proceedings of the 2014 Sixth

[World Congress on Nature and Biologically Inspired Computing \(NaBIC\)](#), pp. 91-96, Porto, Portugal, 2014

26. F. Serdio, E. Lughofer, K. Pichler, T. Buchegger, M. Pichler and H. Efendic, **Reducing False Positives for Residual-Based On-line Fault Detection by Means of Adaptive Filters**, Proceedings of the [IEEE SMC 2014 Conference](#), San Diego, pp. 2803-2808, 2014
27. K. Pichler, M. Pichler, E. Lughofer, E.P. Klement, M. Huschenbett, T. Buchegger, **On the robustness of fault detection in reciprocating compressor valves**, Proceedings of the [IEEE SMC 2014 Conference](#), San Diego, pp. 2733-2738, 2014
28. F. Serdio, E. Lughofer, K. Pichler, T. Buchegger, M. Pichler and H. Efendic. **Gradient-based Fuzzy Fault Isolation in Residual-based Fault Detection Systems**. Proceedings of the [WCCI 2014 Conference](#), Beijing, China, pp. 1428-1435, 2014
29. M. Pratama, S.G. Anavatti, M.J. Er and E. Lughofer. **A Novel Meta-Cognitive-based Scaffolding Classifier to Sequential Non-stationary Classification Problems**. Proceedings of the [WCCI 2014 Conference](#), Beijing, China, pp. 369-376, 2014
30. C. Cernuda, E. Lughofer, P. Hintenaus, W. Märzinger and J. Kasberger. **Genetic Hybridization (Hybridgen): A Cooperative Coevolution Algorithm for Variable Selection**. Proceedings of the [CAC 2014 conference](#), Richmond, Virginia, 2014.
31. M. Pratama, S.G. Anavatti and E. Lughofer. **An Incremental Classifier from Data Streams**. in: A. Likas, K. Blekas, and D. Kalles (Eds.): SETN 2014, LNCS 8445, pp. 15--28, Springer International Publishing Switzerland, 2014.
32. C. Cernuda, E. Lughofer, P. Hintenaus, W. Märzinger, T. Reischer and J. Kasberger, **Fuzzy Finite State Machine for Multivariate Calibration. Application to Near-Infrared Spectroscopy**, Proceedings of the [EuroPACT conference](#), Barcelona, Spain, 2014.
33. E. Lughofer, C. Cernuda and M. Pratama, **Generalized Flexible Fuzzy Inference Systems from Data Streams**, Proceedings of the [International Conference on Machine Learning and Applications \(ICMLA 2013\)](#), pp 1-7, 2013
34. A.-C. Zavoianu, E. Lughofer, G. Bramerdorfer, W. Amrhein, and E.P. Klement, **Effective Ensemble-based Method for Creating On-the-Fly Surrogate Fitness Functions for Multi-Objective Evolutionary Algorithms**, Proceedings of the 5th [International Symposium on Symbolic and Numeric Algorithms for Scientific Computing \(SYNASC\)](#) 2013, pp. 235-242, Timisoara, Romania, 2013
35. A.-C. Zavoianu, E. Lughofer, W. Amrhein and E.P. Klement, **Efficient Multi-Objective Optimization using 2-Population Cooperative Coevolution**, Proceedings of the [EUROCAST 2013 Conference](#), LNCS vol. 8111, pp. 251-258, Las Palmas de Gran Canaria, Spain, 2013
36. C. Cernuda, E. Lughofer, G. Mayr, T. Röder, P. Hintenaus, W. Märzinger and J. Kasberger, **Incremental Active Learning for Optimized Self-Adaptive Calibration in Viscose Production**, Proceedings of the [SSC 2013 Conference](#), Stockholm, 2013
37. F. Serdio, E. Lughofer, K. Pichler, T. Buchegger, M. Pichler and H. Efendic, **Multivariate Fault Detection in the Residual Space using VARMA and Orthogonal Transformations**, [PHM 2013 Conference](#), pp. 548-555, New Orleans, 2013
38. C. Cernuda, E. Lughofer, P. Hintenaus, W. Märzinger, T. Reischer, M. Pawliczek, J. Kasberger, **Ensembled Self-Adaptive Fuzzy Calibration Models for On-line Cloud Point Prediction**, Proceedings of

the [EUSFLAT 2013 conference](#), pp. 17-24, Milano, Italy, 2013

39. F. Serdio, E. Lughofer, K. Pichler, T. Buchegger and H. Efendic, **Data-Driven Residual-Based Fault Detection for Condition Monitoring in Rolling Mills**, Proceedings of the [IFAC Conference on Manufacturing Modeling, Management and Control \(MIM\) 2013](#), St. Petersburg, 2013, pp. 1546-1551. **(awarded as best paper)**
40. K. Pichler, E. Lughofer, M. Pichler, T. Buchegger, E.P. Klement, M. Huschenbett, **Detecting broken Reciprocating Compressor Valves in the pV-diagram**, Proceedings of the 2013 IEEE/ASME International Conference on Advanced Intelligent Mechatronics, 2013
41. M. Pratama, S. Anavatti and E. Lughofer, **Evolving Fuzzy Rule-Based Classifier Based on GENEFIS**, Proceedings of the [FUZZ-IEEE 2013 Conference](#), Hyderabad, India, 2013, pp.1-8
42. C. Zavoianu, E. Lughofer, W. Koppelstaetter, G. Weidenholzer, W. Amrhein, E.P. Klement, **On the Performance of Master-Slave Parallelization Methods for Multi-Objective Evolutionary Algorithms**, [Proceedings of the ICAISC 2013 conference](#), Zakopane, Poland, pp. 122-134
43. A. Shaker and E. Lughofer, **Resolving Global and Local Drifts in Data Stream Regression using Evolving Rule-Based Models**, 2013 IEEE Conference on Evolving and Adaptive Intelligent Systems (EAIS) ([under the scope of IEEE SSCI 2013 Conference](#)), Singapore, pp. 9-16, 2013
44. M. Pratama, S. Anavatti, M. Garret and E. Lughofer, **Online Identification of Complex Multi-Input-Multi-Output System Based on Generic Evolving Neuro-Fuzzy Inference System**, Proceedings of the IEEE EAIS 2013 workshop (SSCI 2013 conference), pp. 106-113, Singapore, 2013
45. E. Lughofer, **eVQ-AM: An Extended Dynamic Version of Evolving Vector Quantization**, Proceedings of the 2013 IEEE Conference on Evolving and Adaptive Intelligent Systems (EAIS), pp. 40-47, Singapore, 2013
46. C. Zavoianu, G. Bramerdorfer, E. Lughofer, W. Amrhein and E.P. Klement, **A Hybrid Soft Computing Approach for Optimizing Design Parameters of Electrical Drives**, in: Soft Computing Models in Industrial and Environmental Applications (Proceedings of the SOCO 2012 Conference), LNAI vol. 181, pp. 347-358, Springer, Berlin Heidelberg, 2012
47. G. Mayr, L. Suppan, F. Zeppetzauer, C. Cernuda, E. Lughofer, H. Trinker, P. Hintenaus, W. Märzinger and T. Roder. **Scope and limitations of spectroscopic methods for on- and in-line analysis at the viscose production**. Proceedings of the 245th ACS National Meeting}, New Orleans, U.S.A., 2013.
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51. K. Pichler, E. Lughofer, T. Buchegger, E.P. Klement, M. Huschenbett. **Detecting Cracks in Reciprocating Compressor Valves using Pattern Recognition in Frequency Space**. Proceedings of the ASME 2012

Conference on Smart Materials, Adaptive Structures and Intelligent Systems, SMASIS2012, Stone Mountain, Georgia, USA, 2012, pp. 749--756.

52. C. Cernuda, E. Lughofer, W. Märzinger, W. Summerer. **Waveband Selection in NIR Spectra using Enhanced Genetic Operators**. Proceedings of the CAC 2012 conference, Budapest, 2012, pp. 37.
53. C. Cernuda, E. Lughofer, L. Suppan, T. Röder, R. Schmuck, P. Hintenaus, W. Märzinger, J. Kasberger. **Dynamic Quantification of Process Parameters in Viscose Production with Evolving Fuzzy Systems**. Proceedings of the IPMU 2012, Advances on Computational Intelligence, CCIS, vol. 297, Springer, pp. 1-10, 2012.
54. E. Lughofer, **On-line active learning based on enhanced reliability concepts**, Proceedings of the IEEE Conference on Evolving and Adaptive Intelligent Systems (EAIS) 2012, pp. 1-6, IEEE, Madrid, Spain, 2012
55. E. Lughofer, **Dynamic Evolving Cluster Models Using On-line Split-and-Merge Operations**, Proc. of the 10th International Conference in Machine Learning and Applications (ICMLA) 2011, pp. 20-26, Honolulu, Hawaii, 2011
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60. E. Lughofer, **All-Pairs Evolving Fuzzy Classifiers for On-line Multi-Class Classification Problems**, Proceedings of the EUSFLAT 2011 Conference, pp. 372--379, Aix-Les-Bains, France, 2011
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