2014 IEEE Conference on Evolving and Adaptive Intelligent Systems

(EAIS 2014)

Linz, Austria
2 – 4 June 2014

IEEE Catalog Number: CFP1414N-POD
ISBN: 978-1-4799-3348-8

2014 IEEE Conference on Evolving and Adaptive Intelligent Systems
June 2 — 4, 2014
Linz, Austria

Table of Contents

R. Polikar 0a
Semi-supervised and active learning in initially labeled nonstationary and evolving environments

I. Škrjanc 0b
Evolving fuzzy model identification for control and process monitoring

S.S. Abadeh, A. Kalhor 46
Evolving Takagi-Sugeno model based on online Gustafson-Kessel algorithm and kernel recursive least square method

N.H. Abd Rahim, T.P. Martin 69
Support-based distance measurement between lattices

P. Angelov, D. Kangin, X. Zhou, D. Kolev 156
Symbol recognition with a new autonomously evolving classifier AutoClass

R.D. Baruah, P. Angelov, D. Baruah 92
Dynamically evolving clustering for data streams

M. Bouillon, E. Anquetil 121
Man-machine cooperation for the on-line training of an evolving classifier

A. Buschermöhle, W. Brockmann 106
Reliable localized on-line learning in non-stationary environments

N. Chawla 128
Online information monitoring for utilizing hotel occupancy rate analysis

D. Dovžan, S. Blažič, I. Škrjanc 98
Towards evolving fuzzy reference controller

S. Elmetennani, T.M. Laleg-Kirati 26
New fuzzy approximate model for indirect adaptive control of distributed solar collectors

T. Eze, R. Anthony 12
Dead-zone logic in autonomic systems

D. Griol, J.A. Iglesias, A. Ledezma, A. Sanchis 133
A dialog management methodology based on evolving fuzzy-rule-based (FRB) classifiers

J.A. Iglesias, G. Gutiérrez, A. Ledezma, A. Sanchis 163
Time series forecasting using artificial neural networks vs. evolving models

E. Ivannikova, T. Hämäläinen, K. Luostarinen 01
Variable group selection based on regression trees: paper machine case study

A. Kalhor 39
A self tuning regulator for nonlinear time varying control systems based on evolving linear models

I. Khamassi, M. Sayed-Mouchaweh 06
Drift detection and monitoring in non-stationary environments

T. Nakamura, A. Lemos 84
A batch-incremental process fault detection and diagnosis using mixtures of probabilistic PCA

E. Osaba, R. Carballedo, F. Diaz, E. Onieva, P. Lopez, A. Perallos 33
On the influence of using initialization functions on genetic algorithms solving combinatorial optimization problems: a first study on the TSP

N. Pawar, M. Belur, M. Bhushan, A.P. Tiwari, M.G. Kelkar, M. Pramanik, V. Singh 77
A data-driven adaptive model-identification based large-scale sensor management system: application to Self Powered Neutron Detectors

D. Petelin, J. Kocijan 113
Evolving Gaussian process models for predicting chaotic time-series

R.-E. Precup, M.-C. Sabau, C.-A. Dragos, M.-B. Radac, L.-O. Fedorovici, E.M. Petriu 20
Particle swarm optimization of fuzzy models for anti-lock braking systems

R. Rosa, F. Gomide, D. Dovžan, I. Škrjanc 54
Evolving neural network with extreme learning for system modelling

J.d.J. Rubio, L.A. Soriano, W. Yu, J. Pacheco 176
Wind turbine modeling with an analytic algorithm

J.d.J. Rubio, L.A. Soriano, W. Yu, J. Pacheco 179
Wind turbine modeling with the slopes algorithm

M. Sheraz, M.A. Abido 182
An efficient approach for parameter estimation of PV model using DE and fuzzy based MPPT controller

I. Škrjanc, S. Blažič, P. Angelov 141
Robust evolving cloud-based PID control adjusted by gradient learning method

I. Škrjanc, D. Dovžan, F. Gomide 149
Evolving fuzzy-model-based on c-regression clustering

D. Wachholder, C. Stary 61
Context-sensitive modeling of input source configuration for evolving intelligent systems

A. Zdešar, D. Dovžan, I. Škrjanc 170
A 2 DOF predictive control based on evolving fuzzy model