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2015 IEEE Symposium Series on Computational Intelligence

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IEEE BigData

Conference Information

2015 IEEE Symposium Series on Computational Intelligence

Sessions

- CICA 2015 Session: 1: Fuzzy System Identification and Control
- CIVTS 2015 Session: 1: Intelligent Transportation Systems
- CICS 2015 Session: 1
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- RiiSS 2015 Session: 1: Informationally Structured Space
- CIDM 2015 Session: 1: Classification I
- CIBIM 2015 Session: 1: Face And Skin Biometrics
- SIS 2015 Session: 1: Particle Swarm Optimization I
- RiiSS 2015 Session: 2: Intelligent Robotics
- CIDM 2015 Session: 2a: Special Session: Mining of Human Centered Multimodal Data
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- CIBIM 2015 Session: 2: Special Session: Machine Learning Techniques for Fingerprint Biometrics
- CICA 2015 Session: 2: System Identification and Learning with Applications
- CIVTS 2015 Session: 2: Driver Behavior Detection and Vehicle Vision Systems
- CICS 2015 Session: 2

Sessions (cont.)

- ❑ CIBD 2015 Session: 1
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- ❑ CIASG 2015 Session: 1: Forecasting, Prediction and Estimation
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- ❑ FOCI 2015 Session: 1: Fuzzy Logic
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- ❑ ICES 2015 Session: 1: Evolvable Robotic Systems
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- ❑ SIS 2015 Session: 2: Ant Colony Optimization

Sessions (cont.)

- ❑ CIComms 2015 Session: 1a: Special Session: Nature-Inspired Antenna Systems
- ❑ CIComms 2015 Session: 1b
- ❑ ICES 2015 Session: 2: Applications of Evolvable Systems
- ❑ CIASG 2015 Session: 2: Simulation, Operations and Control
- ❑ SIS 2015 Session: 3: Particle Swarm Optimization II
- ❑ CICARE 2015 Session: 2: Applications of Computational Intelligence in eHealth and Therapy
- ❑ CIDM 2015 Session: 5a: Special Session: Process Mining
- ❑ CIDM 2015 Session: 5b: Classification II
- ❑ FOCI 2015 Session: 2: Evolutionary Computation and Machine Learning
- ❑ CIHLI 2015 Session: 1:
- ❑ ICES 2015 Session: 3: Evolvable Digital Systems
- ❑ SDE 2015 Session: 1: Algorithmic Aspects of Differential Evolution
- ❑ CIASG 2015 Session: 3: Demand Response
- ❑ CIDM 2015 Session: 6: Advanced Data Mining Techniques
- ❑ CIDM 2015 Session: 7: Special Session: Analysis and Visualization of High Dimensional and Complex Data

Sessions (cont.)

- ❑ CIES 2015 Session: 1
- ❑ CIHLI 2015 Session: 2
- ❑ CIEL 2015 Session: 1:
- ❑ SDE 2015 Session: 2: Problem Oriented Design and Applications of Differential Evolution
- ❑ CIPLS 2015 Session: 2
- ❑ CIFEr 2015 Session: 3: Portfolio Optimization & Hedging Strategies & The Bitcoin Market
- ❑ CIDM 2015 Session: 8: Special Session: Partially Supervised Learning
- ❑ CIES 2015 Session: 2
- ❑ SIS 2015 Session: 4: Other Swarm Intelligence Algorithms

Papers by Session

CICA 2015 Session: 1: Fuzzy System Identification and Control

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❑ Self-Tuning Robust Stability Fuzzy Digital Controller
   Edson B.M. Costa and Ginalber L.O. Serra

❑ Fuzzy Logic Control and Fault Detection in Centralized Chilled Water System
   Noor Asyikin Sulaiman, Mohd Fauzi Othman, and Hayati Abdullah

❑ Novel Data Knowledge Representation with TSK-Type Preprocessed
   Collaborative Fuzzy Rule Based System
   Mukesh Prasad, Meng Joo Er, Chin Teng Lin, Om Kumar Prasad, Manoranjan Mohanty, and Jagendra Singh

❑ Interval Type-2 Recursive Fuzzy C-Means Clustering Algorithm in the TS Fuzzy
   Model Identification
   Tanmoy Dam and Alok Kanti Deb

Papers by Session

CIVTS 2015 Session: 1: Intelligent Transportation Systems

- ❏ Efficacy of Interventions and Incentives to Achieve Speed Compliance in the Informal Public Transport Sector
  N.A. Ebot Eno Akpa, M.J. Booysen, and M. Sinclair

- ❏ Cellular Network Based Real-Time Urban Road Traffic State Estimation Framework Using Neural Network Model Estimation
  Ayalew Belay Habtie, Ajith Abraham, and Dida Midekso

- ❏ Multi-UAV Task Allocation: A Team-Based Approach
  T.K. Venugopalan, K. Subramanian, and S. Sundaram

- ❏ Aircraft 4D Trajectories Planning Under Uncertainties
  Supatcha Chaimatanan, Daniel Delahaye, and Marcel Mongeau

Papers by Session

CICS 2015 Session: 1

❏ P2V: Effective Website Fingerprinting Using Vector Space Representations
   Khaled Alnaami, Gbadebo Ayoade, Asim Siddiqui, Nicholas Ruozzi, Latifur Khan,
   and Bhavani Thuraisingham

❏ Quantum Based Neural Network Classifier and Its Application for Firewall
   to Detect Malicious Web Request
   Om Patel, Aruna Tiwari, Vikram Patel, and Ojas Gupta

❏ Conversion of Decision Tree Into Deterministic Finite Automaton for High
   Accuracy Online SYN Flood Detection
   Marcin Luckner

❏ Potentials of Using One-Class SVM for Detecting Protocol-Specific Anomalies
   in Industrial Networks
   Franka Schuster, Andreas Paul, René Rietz, and Hartmut Koenig

Papers by Session

CCMB 2015 Session: 1

❑ Artificial Mental Imagery in Cognitive Robots Interaction
Alessandro Di Nuovo and Angelo Cangelosi

❑ Robustness and Real-Time Performance of an Insect Inspired Target Tracking Algorithm Under Natural Conditions
Zahra Bagheri, Steven D. Wiederman, Ben Cazzolato, Steven Grainger, and David C. O'Carroll

❑ Combining CCA and CFP for Enhancing the Performance in the Hybrid BCI System
Li-Wei Ko and S. Sai Kalyan Ranga

❑ Empathic Interaction Using the Computational Emotion Model
Zeeshan Rasool, Naoki Masuyama, Md. Nazrul Islam, and Chu Kiong Loo

Papers by Session

RiiSS 2015 Session: 1: Informationally Structured Space

❑ Development of Food Texture Sensor Using Two Magnetic Sensing Elements
Hiroyuki Nakamoto, Daisuke Nishikubo, Futoshi Kobayashi, and Fumio Kojima

❑ Invariant Perception for Grasping an Unknown Object Using 3D Depth Sensor
Hiroyuki Masuta, Hun-Ok Lim, Tatsuo Motoyoshi, Ken'ichi Koyanagi, and Toru Oshima

❑ Fuzzy Spiking Neural Network for Abnormality Detection in Cognitive Robot Life
Supporting System
Dalai Tang, Tiong Yew Tang, János Botzheim, Naoyuki Kubota, and Toru Yamaguchi

❑ Behavior Pattern Extraction Based on Growing Neural Networks
for Informationally Structured Space
Takenori Obo, Habeebah Kakudi, Chu Kiong Loo, and Naoyuki Kubota

Papers by Session

CIDM 2015 Session: 1: Classification I

- ❑ Study on Index Model of Tropical Cyclone Intensity Change Based on Projection Pursuit and Evolution Strategy
  Huantong Geng, Jiaqing Sun, Wei Zhang, and Chao Huang

- ❑ Classification Uncertainty of Multiple Imputed Data
  Tuomo Alasalmi, Heli Koskimäki, Jaakko Suutala, and Juha Röning

- ❑ Calibrating Probability with Undersampling for Unbalanced Classification
  Andrea Dal Pozzolo, Olivier Caelen, Reid A. Johnson, and Gianluca Bontempi

- ❑ Multi-Strategy Multimodal Genetic Algorithm for Designing Fuzzy Rule Based Classifiers
  Vladimir Stanovov, Evgenii Sopov, and Eugene Semenkin

- ❑ Classification Using Probabilistic Random Forest
  Rajhans Gondane and V. Susheela Devi

Papers by Session

CIBIM 2015 Session: 1: Face And Skin Biometrics

❑ Ensemble Methods for Robust 3D Face Recognition Using Commodity Depth Sensors
  Florin Schimbinschi, Lambert Schomaker, and Marco Wiering

❑ Deep Convolutional Neural Networks and Support Vector Machines for Gender Recognition
  Jos Van De Wolfshaar, Mahir F. Karaaba, and Marco A. Wiering

❑ Video Face Recognition From A Single Still Image Using an Adaptive Appearance Model Tracker
  M. Ali Akber Dewan, E. Granger, R. Sabourin, G.L. Marcialis, and F. Roli

❑ Robust Face Recognition by Computing Distances From Multiple Histograms of Oriented Gradients
  Mahir Karaaba, Olarik Surinta, Lambert Schomaker, and Marco A. Wiering

❑ Identifying Critical Factors Influencing Quality of Blood Vessel Information in JPEG Compressed Skin Images
  Xiaojie Li and Adams Wai Kin Kong

Papers by Session

SIS 2015 Session: 1: Particle Swarm Optimization I

- An Improved Method for Comprehensive Learning Particle Swarm Optimization
  Zi-Jia Wang, Zhi-Hui Zhan, and Jun Zhang

- A Subspace-Based Method for PSO Initialization
  Elre Van Zyl and A.P. Engelbrecht

- Particle Swarm Optimization with Minimum Spanning Tree Topology
  for Multimodal Optimization
  Yu-Hui Zhang, Ying Lin, Yue-Jiao Gong, and Jun Zhang

- The Effect of Probability Distributions on the Performance of Quantum Particle
  Swarm Optimization for Solving Dynamic Optimization Problems
  Kyle Harrison, Beatrice M. Ombuki-Berman, and Andries P. Engelbrecht

- Frequency Distribution of Candidate Solutions in Angle Modulated Particle
  Swarms
  Barend J. Leonard and Andries P. Engelbrecht

- Transistor Sizing Using Particle Swarm Optimisation
  Lyndon White, Lyndon While, Ben Deeks, and Farid Boussaid

Papers by Session

RiiSS 2015 Session: 2: Intelligent Robotics

❑ Evolving Snake Robot Controllers Using Artificial Neural Networks as an Alternative to a Physics-Based Simulator
Grant W. Woodford, Mathys C. Du Plessis, and Christiaan J. Pretorius

❑ Genetic Bayesian ARAM for Simultaneous Localization and Hybrid Map Building
Wei Hong Chin, Chu Kiong Loo, Naoyuki Kubota, and Yuichiro Toda

❑ Pareto-Dominance Based MOGP for Evolving Soccer Agents
Christopher Lazarus

❑ Interconnection Structure Optimization for Neural Oscillator Based Biped Robot Locomotion
Azhar Aulia Saputra, Indra Adji Sulistijono, János Botzheim, and Naoyuki Kubota

❑ Autonomous Viewpoint Selection of Robots Based on Aesthetic Composition Evaluation of a Photo
Kai Lan and Kosuke Sekiyama

Papers by Session

CIDM 2015 Session: 2a: Special Session: Mining of Human Centered Multimodal Data

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❑ Avoiding Bias in Classification Accuracy - A Case Study for Activity Recognition
   Heli Koskimäki

❑ Fusion Mappings for Multimodal Affect Recognition
   Markus Kächele, Martin Schels, Patrick Thiam, and Friedhelm Schwenker

❑ Data Mining in MEDLINE for Disease-Disease Associations Via Second Order Co-Occurrence
   Modest Von Korff, Bernard Deffarges, and Thomas Sander

Papers by Session

CIDM 2015 Session: 2b: Ensemble Methods

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- ❑ Evaluation of Fusion Methods for Gamma-Divergence-Based Neural Network Ensembles
    Uwe Knauer, Andreas Backhaus, and Udo Seiffert

- ❑ Improving Classification Performance by Merging Distinct Feature Sets of Similar Quality Generated by Multiple Initializations of mRMR
    Thomas Bottesch and Guenther Palm

- ❑ Naïve Bayes Classification Ensembles to Support Modeling Decisions in Data Stream Mining
    Patricia E.N. Lutu

Papers by Session

CIBIM 2015 Session: 2: Special Session: Machine Learning Techniques for Fingerprint Biometrics

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❑ Fusion of Palmprint and Finger-Knuckle-Print for Human Personal Recognition
Aditya Nigam, Parvez Khan, and Phalguni Gupta

❑ Distortion Analysis on Binary Representation of Minutiae Based Fingerprint Matching for Match-on-Card
Cynthia Sthembile Mlambo and Meshack Bafana Shabalala

❑ Automatic Classification of Acquisition Problems Affecting Fingerprint Images in Automated Border Controls
Ruggero Donida Labati, Angelo Genovese, Enrique Munoz Ballester, Vincenzo Piuri, Fabio Scotti, and Gianluca Sforza

❑ A Preliminary Study on Identifying Fabrication Material From Fake Fingerprint Images
Ajita Rattani, Zahid Akhtar, and Gianluca Foresti

Papers by Session

CICA 2015 Session: 2: System Identification and Learning with Applications

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- ❑ Interpretation and Analysis of Input Selection Approaches in Distance Space
  Tim Oliver Heinz and Oliver Nelles

- ❑ Extended Deterministic Local Search Algorithm for Maximin Latin Hypercube Designs
  Tobias Ebert, Torsten Fischer, Julian Belz, Tim Oliver Heinz, Geritt Kampmann, and Oliver Nelles

- ❑ Enhanced Anomaly Detection Via PLS Regression Models and Information Entropy Theory
  Harrou Fouzi and Ying Sun

- ❑ Building Markov Decision Process Based Models of Remote Experimental Setups for State Evaluation
  Ananda Maiti, Alexander A. Kist, and Andrew D. Maxwell

- ❑ GLRT Based Anomaly Detection for Sensor Network Monitoring
  Harrou Fouzi and Ying Sun

- ❑ Multi-Document Extractive Summarization Using Window-Based Sentence Representation
  Yong Zhang, Meng Joo Er, and Rui Zhao

Papers by Session

CIVTS 2015 Session: 2: Driver Behavior Detection and Vehicle Vision Systems

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- ❑ Real Time Drowsiness Detection Based on Lateral Distance Using Wavelet Transform and Neural Network
  Jiaqi Ma, Yi Lu Murphey, and Hong Zhao

- ❑ A Comparison of Low-Cost Monocular Vision Techniques for Pothole Distance Estimation
  S. Nienaber, R.S. Kroon, and M.J. Booysen

- ❑ Performance Comparison of Dynamic Time Warping (DTW) and a Maximum Likelihood (ML) Classifier in Measuring Driver Behavior with Smartphones
  J. Engelbrecht, M.J. (Thinus) Booysen, G.-J. van Rooyen, and F.J. Bruwer

- ❑ Comparison of GPS and MEMS Support for Smartphone-Based Driver Behavior Monitoring
  Frederick J. Bruwer and Marthinus J. Booysen

- ❑ A Three-Step Vehicle Detection Framework for Range Estimation Using a Single Camera
  Ritesh Kanjee, Asheer K. Bachoo, and Johnson Carroll

Papers by Session

CICS 2015 Session: 2

❏ Information Warfare: Fighting Back Through the Matrix
   Ramzi A. Haraty, Sanaa Kaddoura, and Ahmed Zekri

❏ Security Analysis of Smart Grid Cyber Physical Infrastructures Using Game Theoretic Simulation
   Robert K. Abercrombie and Frederick T. Sheldon

❏ An Adaptive Approach Towards the Selection of Multi-Factor Authentication
   Abhijit Kumar Nag, Arunava Roy, and Dipankar Dasgupta

❏ Histogram-Based Fast Text Paragraph Image Detection
   Devadeep Shyam, Yan Wang, and Alex C. Kot

❏ Authenticating Super-Resolved Image and Enhancing Its PSNR Using Watermark
   Mehul S. Raval, Vaibhav B. Joshi, Dhruv Gupta, and Shubhalaxmi J. Kher

Papers by Session

CIBD 2015 Session: 1

❑ Attribute Selection Via Multi-Objective Evolutionary Computation Applied
to Multi-Skill Contact Center Data Classification
Fernando Jiménez, Enrico Marzano, Gracia Sánchez, Guido Sciavicco, and Nicola Vitacolonna

❑ Big Data and Machine Learning for Applied Weather Forecasts: Forecasting Solar
Power for Utility Operations
Sue Ellen Haupt and Branko Kosovic

❑ Using the Simulation of Ecological Systems to Explain the Wheel of Retailing
Roderick Ducan, Terry Bossomaier, Steven D'Alessandro, Craig Johnson, and Kathyrn French

❑ Distributed, MapReduce-Based Nearest Neighbor and E-Ball Kernel k-Means
Nikolaos Tsapanos, Anastasios Tefas, Nikos Nikolaidis, and Ioannis Pitas

❑ Hierarchical Mahalanobis Distance Clustering Based Technique for Prognostics
in Applications Generating Big Data
R. Krishnan and S. Jagannathan

❑ Fixed-Size Least Squares Support Vector Machines: Scala Implementation
for Large Scale Classification
Mandar Chandorkar, Raghvendra Mall, Oliver Lauwers, Johan A.K. Suykens, and Bart De Moor

Papers by Session

❑ Big Data Analytics of Financial Strategies
   Kabaji Egara and Yonghong Peng

❑ Integrated Analysis of Gene Expression Data for Colon Cancer Biomarker
   Discovery
   Aamir Hassan, Masood U.H. Zaka, Demetres Kouvatsos, and Yonghong Peng

Papers by Session

ADPRL 2015 Session: 1

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- ❏ A Pdf-Free Change Detection Test for Data Streams Monitoring
  Li Bu, Dongbin Zhao, and Cesare Alippi

- ❏ Learning an Optimal Control Policy for a Markov Decision Process Under Linear Temporal Logic Specifications
  Masaki Hiromoto and Toshimitsu Ushio

- ❏ A Policy Gradient with Parameter-Based Exploration Approach for Zone-Heating
  Kevin Van Vaerenbergh, Yann-Michaël De Hauwere, Bruno Depraetere, Kristof Van Moffaert, and Ann Nowé

- ❏ Temporal Difference Learning for the Game Tic-Tac-Toe 3D: Applying Structure to Neural Networks
  Michiel Van De Steeg, Madalina M. Drugan, and Marco Wiering

- ❏ Bayesian Credible Intervals for Online and Active Learning of Classification Trees
  Timothé Collet and Olivier Pietquin

- ❏ Bayesian Reinforcement Learning in Markovian and non-Markovian Tasks
  Adnane Ez-Zizi, Simon Farrell, and David Leslie

Papers by Session

❑ Distributed Adaptive Optimal Regulation of Uncertain Large-Scale Linear Networked Control Systems Using Q-Learning
   Vignesh Narayanan and S. Jagannathan

❑ Correlated Gaussian Multi-Objective Multi-Armed Bandit Across Arms Algorithm
   Saba Q. Yahyaa and Madalina M. Drugan

Papers by Session

IntECS 2015 Session: 1

❑ Detecting Contaminants in Smart Buildings by Exploiting Temporal and Spatial Correlation
   G. Boracchi, M. Michaelides, and M. Roveri

❑ Controlled-Accuracy Approximation of Nonlinear Functions for Soft Computing Applications: A High Performance Co-proccessor for Intelligent Embedded Systems
   Inés Del Campo, Javier Echanobe, Estibaliz Asua, and Raul Finker

❑ Semantic Mediation in Smart Water Networks
   George M. Milis, Demetris G. Eliades, Christos G. Panayiotou, and Marios M. Polycarpou

❑ Using Cultural Algorithms to Improve Wearable Device Gesture Recognition Performance
   Faisal Waris and Robert G. Reynolds

❑ Optimal Defense and Control for Cyber-Physical Systems
   Haifeng Niu and S. Jagannathan

❑ An Agent-Based Framework for Indoor Navigation in Blended Shopping
   Francesco Orciuoli and Mimmo Parente

Papers by Session

CIASG 2015 Session: 1: Forecasting, Prediction and Estimation

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- ❑ Short-Term Forecasting of Wind Power Generation Based on the Similar Day and Elman Neural Network
  Xiaoyu Zhang, Rui Wang, Tianjun Liao, Tao Zhang, and Yabin Zha

- ❑ Prediction Interval Modeling Tuned by an Improved Teaching Learning Algorithm Applied to Load Forecasting in Microgrids
  Franka Veltman, Luis G. Marin, Doris Sáez, Leonel Guitierrez, and Alfredo Núñez

- ❑ Electrical Energy Consumption Forecast Using External Facility Data
  Eugénia Vinagre, Luis Gomes, and Zita Vale

- ❑ Electric Water Heater Energy Consumption Determination Using Outlet Temperature and Volumetric Estimation
  P.J.C. Nel, M.J. Booysen, and B. Van Der Merwe

- ❑ Frequency Prediction of Synchronous Generators in a Multi-Machine Power System with a Photovoltaic Plant Using a Cellular Computational Network
  Yawei Wei, Iroshani Jayawardene, Laboratory, and Ganesh Kumar Venayagamoorthy

Papers by Session

❑ Semantically-Enhanced Configurability in State Estimation Structures of Power Systems
George M. Milis, Markos Asprou, Elias Kyriakides, Christos G. Panayiotou, and Marios M. Polycarpou

❑ Detecting Wind Power Ramp with Random Vector Functional Link (RVFL) Network
Ye Ren, Xueheng Qiu, P.N. Suganthan, and Gehan Amaratunga

Papers by Session

CIFEr 2015 Session: 1: Forecasting & Predictive Modeling

❑ Maximum Entropy Production Principle for Stock Returns
  Paweł Fiedor

❑ Predicting Stock Price Movements Based on Different Categories of News Articles
  Yauheniya Shynkevich, T.M. McGinnity, Sonya Coleman, and Ammar Belatreche

❑ Predicting Rainfall in the Context of Rainfall Derivatives Using Genetic Programming
  Sam Cramer, Michael Kampouridis, Alex A. Freitas, and Antonis Alexandridis

❑ Predicting Credit Risk in Peer-to-Peer Lending: A Neural Network Approach
  Ajay Byanjankar, Markku Heikkilä, and Jozsef Mezei

❑ Forecasting Financial Volatility Using Nested Monte Carlo Expression Discovery
  Tristan Cazenave and Sana Ben Hamida

❑ High-Frequency Equity Index Futures Trading Using Recurrent Reinforcement Learning with Candlesticks
  Patrick Gabrielsson and Ulf Johansson

Papers by Session

❑ The Predictive Power of Volatility Pattern Recognition in Stock Market
  Yue Li and Khaldoun M. Khashanah

Papers by Session

CIDM 2015 Session: 3: Clustering

- ❑ An Alternating Optimization Approach Based on Hierarchical Adaptations
  of DBSCAN
  Alexander Dockhorn, Christian Braune, and Rudolf Kruse

- ❑ Scalable Hierarchical Clustering: Twister Tries with a Posteriori Trie Elimination
  Michael Cochez and Ferrante Neri

- ❑ Overlapping Community Detection in Social Network Using Disjoint Community
  Detection
  Jaswant Meena and V. Susheela Devi

- ❑ An Enhanced Quantum-Inspired Evolutionary Fuzzy Clustering
  Neha Bharill, Om Prakash Patel, and Aruna Tiwari

- ❑ Maximum Clusterability Divisive Clustering
  David Hofmeyr and Nicos Pavlidis

- ❑ Collaborative Clustering: How to Select the Optimal Collaborators?
  Parisa Rastin, Guénaël Cabanes, Nistor Grozavu, and Younes Bennani

- ❑ A Comparative Study of Markov Network Structure Learning Methods Over Data
  Streams
  Swarup Chandra, Vishal Karande, and Latifur Khan

Papers by Session

**CICARE 2015 Session: 1: Applications
of Computational Intelligence and Informatics
in Disease Diagnosis and Rehabilitation**

- ❑ Feature Reduction for Dimensional Emotion Recognition in Human-Robot Interaction
  Ntombikayise Banda, Andries Engelbrecht, and Peter Robinson

- ❑ Smartphone-Based Tele-Rehabilitation System for Frozen Shoulder Using a Machine Learning Approach
  Kanmanus Ongvisatepaiboon, Jonathan H. Chan, and Vajirasak Vanijja

- ❑ A Decision Tree-Based Approach for Cardiovascular Dysautonomias Diagnosis: A Case Study
  Ilham Kadi and Ali Idri

- ❑ A Novel Ontology and Machine Learning Inspired Hybrid Cardiovascular Decision Support Framework
  Amir Hussain, Kamran Farooq, Bin Luo, and Warner Slack

- ❑ Solar Powered Wheel Chair for Physically Challenged People Using Surface EMG Signal
  Shamim Kaiser, Zamshed I. Chowdhury, Shamim Mamun, Amir Hussain, and Mufti Mahmud

Papers by Session

MCDM 2015 Session: 1

- ❑ Comparative Study of Recent Multimodal Evolutionary Algorithms
  Romaric Pighetti, Denis Pallez, and Frederic Precioso

- ❑ Using -Dominance for Hidden and Degenerated Pareto-Fronts
  Heiner Zille and Sanaz Mostaghim

- ❑ Concept-Based Evolutionary Multi-Criteria Exploration of Design Spaces Under Run-Time Limitation
  Alon Snir, Barak Samina, and Amiram Moshaiov

- ❑ Relation Between Weight Vectors and Solutions in MOEA/D
  Hisao Ishibuchi, Ken Doi, Hiroyuki Masuda, and Yusuke Nojima

- ❑ Approximative Pareto Front Identification
  Madalina M. Drugan

- ❑ Enhancing State-of-the-Art Multi-Objective Optimization Algorithms by Applying Domain Specific Operators
  Seyyedeh Newsha Ghoreishi, Jan Corfixen Sørensen, and Bo Nørregaard Jørgensen

Papers by Session

CIFEr 2015 Session: 2: Systemic Risk & Sentiment Analysis & Macroeconomic Modeling

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- ❑ The Reconstruction of Financial Signals Using Fast ICA for Systemic Risk
  Kuan-Heng Chen and Khaldoun Khashanah

- ❑ Detect & Describe: Deep Learning of Bank Stress in the News
  Samuel Rönnqvist and Peter Sarlin

- ❑ An Extreme Firm-Specific News Sentiment Asymmetry Based Trading Strategy
  Qiang Song, Anqi Liu, Steve Y. Yang, Anil Deane, and Kaushik Datta

- ❑ Learning Ordinary Differential Equations for Macroeconomic Modelling
  Zhivko Georgiev and Dimitar Kazakov

- ❑ Sentiment Classification in the Financial Domain Using? SVM and Multi-Objective Optimisation
  Fan Sun, Ammar Belatreche, Sonya A. Coleman, Thomas Mcginnity, and Yuhua Li

- ❑ Crisis Modeler: A Tool for Exploring Crisis Predictions
  Markus Holopainen and Peter Sarlin

Papers by Session

CIDM 2015 Session: 4: Data Mining Applications

❑ RBFN Networks-Based Models for Estimating Software Development Effort: A Cross-Validation Study
   Ali Idri, Aya Hassani, and Alain Abran

❑ Visualization of Design-Space Constitution for Single-Stage Hybrid Rocket with Rigid Body in View of Extinction-Reignition
   Kazuhisa Chiba, Hideyuki Yoda, Shoma Ito, and Masahiro Kanazaki

❑ Using Twitter for Next-Place Prediction, with an Application to Crime Prediction
   Mingjun Wang and Matthew S. Gerber

❑ Genetic Clustering Algorithm for Extractive Text Summarization
   Sebastian Suarez Benjumea and Elizabeth León

❑ Optimizing Seed Set for New User Cold Start
   He-Da Wang and Ji Wu

❑ Collaborative Filtering of Call for Papers
   He-Da Wang and Ji Wu

Papers by Session

FOCI 2015 Session: 1: Fuzzy Logic

❑ Omega-Algebras
Branimir Šešelja and Andreja Tepavčević

❑ RBFN Networks-based Models for Estimating Software Development Effort: A Cross-validation Study
Ali Idri, Aya Hassani, and Alain Abran

❑ A Normal Form for Fuzzy Functional Dependencies
J.M. Rodríguez-Jiménez, E. Rodríguez-Lorenzo, P. Cordero, M. Enciso, and A. Mora

❑ On Fuzzy Preordered Sets and Monotone Galois Connections
F. García-Pardo, I.P. Cabrera, P. Cordero, and M. Ojeda-Aciego

❑ Designing Lattices of Truth Degrees for Fuzzy Logic Programming Environments
Juan Guerrero, María Del Señor Martínez, Gines Moreno, and Carlos Vázquez

Papers by Session

CIPLS 2015 Session: 1:

- ❑ A Collaborative Lot-Sizing Problem with Production Limitations
    Mario Ziebuhr, Tobias Buer, and Herbert Kopfer

- ❑ Adaptive IDEA for Robust Multiobjective Optimization, Application to the r-TSALBP-m/A
    Manuel Chica, Joaquin Bautista, Sergio Damas, and Oscar Cordon

- ❑ The Influence of the Picking Times of the Components in Time and Space Assembly Line Balancing Problems: An Approach with Evolutionary Algorithms
    Emanuel F. Alsina, Nicola Capodieci, Giacomo Cabri, and Alberto Regattieri

- ❑ Component Analysis Based Approach to Support the Design of Meta-Heuristics for MLCLSP Providing Guidelines
    Luis Filipe de Araujo Pessoa, Carolin Wagner, Bernd Hellingrath, and Fernando Buarque de Lima Neto

Papers by Session

ICES 2015 Session: 1: Evolvable Robotic Systems

❑ Evolving Robust Robot Team Morphologies for Collective Construction
   James Watson and Geoff Nitschke

❑ The Benefits of Adaptive Behavior and Morphology for Cooperation
   Jamie Hewland and Geoff Nitschke

❑ Evolution, Individual Learning, and Social Learning in a Swarm of Real Robots
   Jacqueline Heinerman, Massimiliano Rango, and A.E. Eiben

❑ Evolving Robotic Neuro-Controllers Using Gene Expression Programming
   J. Mwaura and Ed Keedwell

❑ A Multi-Agent System for Autonomous Adaptive Control of a Flapping-Wing Micro Air Vehicle
   Garrison Greenwood, Michal Podhradsky, John Gallagher, and Eric Matson

Papers by Session

EEE ALIFE 2015 Session: 1

- ❑ Study of Normalization and Aggregation Approaches for Consensus Network Estimation
  Pau Bellot, Philippe Salembier, Albert Oliveras, and Patrick E. Meyer

- ❑ An Ansatz for a Theory of Living Systems
  Dominique Chu and David J. Barnes

- ❑ Effects of Several Bioinspired Methods on the Stability of Coevolutionary Complexification
  Benjamin Inden and Jürgen Jost

- ❑ Flora Robotica - Mixed Societies of Symbiotic Robot-Plant Bio-Hybrids
  Heiko Hamann, Mostafa Wahby, Thomas Schmickl, Payam Zahadat, Daniel Hofstadler, Kasper Stoy, Sebastian Risi, Andres Faina, Frank Veenstra, Serge Kernbach, Igor Kuksin, Olga Kernbach, Phil Ayres, and Przemyslaw Wojtaszek

- ❑ The Impact of Obstruction on a Model of Competitive Exclusion in Plants
  Jeffrey Tsang and Daniel Ashlock

Papers by Session

SIS 2015 Session: 2: Ant Colony Optimization

- A Comparative Study for Efficient Synchronization of Parallel ACO on Multi-core Processors in Solving QAPs
  Shigeyoshi Tsutsui and Noriyuki Fujimoto

- Towards a Network Interpretation of Agent Interaction in Ant Colony Optimization
  Pavel Krömer, Petr Gajdoš, and Ivan Zelinka

- A Gradient-Guided ACO Algorithm for Neural Network Learning
  Ashraf M. Abdelbar and Khalid M. Salama

- Ant Colony Optimization for First-Order Rule Discovery
  Rafael Ramirez

- Investigating Evaluation Measures in Ant Colony Algorithms for Learning Decision Tree Classifiers
  Khalid M. Salama, Ashraf M. Abdelbar, and Fernando E.B. Otero

Papers by Session

CIComms 2015 Session: 1a: Special Session: Nature-Inspired Antenna Systems

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❑ Surrogate-Assisted Optimization of Metamaterial Devices for Advanced Antenna Systems
  Lorenza Tenuti, Marco Salucci, Giacomo Oliveri, Paolo Rocca, and Andrea Massa

❑ Role of Boundary Dynamics in Improving Efficiency of Particle Swarm Optimization on Antenna Problems
  Pragnan Chakravorty and Durbadal Mandal

❑ Optimization of Antenna Arrays for SLL Reduction Towards Pareto Objectivity Using GA Variants
  Sudipta Das, Gopi Ram Hardel, Pragnan Chakravorty, Durbadal Mandal, Rajib Kar, and Dr. Sakti Prasad Ghoshal

❑ Optimizing an Antenna Array for Satellite Communications
  Randy Haupt

Papers by Session

CIComms 2015 Session: 1b

❑ An Adaptive Congestion Control and Fairness Scheduling Strategy for Wireless Mesh Networks
Sajid Sheikh, Riaan Wolhuter, and Herman A. Engelbrecht

❑ A Dec-POMDP Model for Congestion Avoidance and Fair Allocation of Network Bandwidth in Rate-Adaptive Video Streaming
Mahdi Hemmati, Abdulsalam Yassine, and Shervin Shirmohammadi

❑ Physics-Based Performance Enhancement in Computational Electromagnetics: A Review
Alireza Baghai-Wadji

Papers by Session

ICES 2015 Session: 2: Applications of Evolvable Systems

❑ Social-Insect-Inspired Networking for Autonomous Fault Tolerance
Matthew Rowlings, Andy Tyrrell, and Martin Trefzer

❑ Neuromorphic Hardware Accelerated Adaptive Authentication System
Manan Suri, Vivek Parmar, Akshay Singla, Rishabh Malviya, and Surag Nair

❑ Evolution of Non-Cryptographic Hash Function Pairs for FPGA-Based Network Applications
Roland Dobai and Jan Korenek

❑ An Investigation of Underlying Physical Properties Exploited by Evolution in Nanotubes Materials
Stefano Nichele, Odd Rune Lykkebø, and Gunnar Tufte

❑ Modelling Epigenetic Mechanisms to Capture Dynamical Topological Morphology: Applications in Edge Detection
Alexander P. Turner, Martin A. Trefzer, and Andy M. Tyrrell

❑ Simultaneous Improvement to Signal Integrity and Electromagnetic Interference in High-Speed Transmission Lines
Moritoshi Yasunaga, Yusuke Kuribara, Hirofumi Inoue, and Ikuo Yoshihara

Papers by Session

CIASG 2015 Session: 2: Simulation, Operations and Control

- ❑ Co-Simulation Platform for Characterizing Cyber Attacks in Cyber Physical Systems
  Mohammad Ashraf Hossain Sadi, Mohd Hasan Ali, Dipankar Dasgupta, Robert K. Abercrombie, and Shubhalaxmi Kher

- ❑ Stochastic Optimization for Combined Economic and Emission Dispatch with Renewables
  Mehdi Rahmani-Andebili and Ganesh K. Venayagamoorthy

- ❑ VPP Energy Resources Management Considering Emissions: The Case of Northern Portugal 2020 to 2050
  João Soares, Nuno Borges, Cristina Lobo, and Zita Vale

- ❑ Stochastic Model Predictive Control Based Economic Dispatch for Hybrid Energy System Including Wind and Energy Storage Devices
  Yan Zhang, Rui Wang, Tao Zhang, Tianjun Liao, Yajie Liu, and Bo Guo

- ❑ Development of Optimal PI Controllers for a Grid-Tied Photovoltaic Inverter
  Ali Arzani, Paranietharan Arunagirinathan, and Ganesh Kumar. Venayagamoorthy

Papers by Session

❏ Multi-Machine Power System Stabilizer Design Based on Population Based Incremental Learning
Dereck A. Dombo and Komla Folly

Papers by Session

SIS 2015 Session: 3: Particle Swarm Optimization II

❑ Dynamic Vector-Evaluated PSO with Guaranteed Convergence in the Sub-Swarms
Mardé Helbig and Andries Engelbrecht

❑ Co-operative Vector-Evaluated Particle Swarm Optimization for Multi-objective Optimization
Justin Maltese, Beatrice Ombuki-Berman, and Andries Engelbrecht

❑ High-Dimensional Multi-Objective Optimization Using Co-operative Vector-Evaluated Particle Swarm Optimization with Random Variable Grouping
Justin Maltese, Andries Engelbrecht, and Beatrice M. Ombuki-Berman

❑ A Parallel Implementation of Multiobjective Particle Swarm Optimization Algorithm Based on Decomposition
Jin-Zhou Li, Wei-Neng Chen, Jun Zhang, and Zhi-Hui Zhan

❑ On the Performance of Particle Swarm Optimization Algorithms in Solving Cheap Problems
Abdullah Al-Dujaili, M. R. Tanweer, and S. Suresh

Papers by Session

CICARE 2015 Session: 2: Applications of Computational Intelligence in eHealth and Therapy

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- ❑ Real Time Identification of Heart Sounds Using Selectional Regional Correlation of the Time Frequency Domain
  David Fourie and M. J. (Thinus) Booysen

- ❑ Automatic Diagnosis of Voiding Dysfunction From Sound Signal
  Petr Hurtík, Michal Burda, Jan Krhut, Peter Zvara, and Libor Lunácek

- ❑ Efficient Bone Detector and Geometric Descriptor for X-Ray Imaging
  Jakub Romanowski, Marcin Korytkowski, and Rafał Scherer

- ❑ Fuzzy Set-Based Detection of Hypotension Episodes for Predicting Leaks in Sleeve Gastrectomy
  J. B. R. Visser, A. M. Wilbik, U. Kaymak, and S. W. Nienhuijs

- ❑ A Note on the Evaluation of Mutation Prioritization Algorithms
  Dusan Popovic, Jesse Davis, Alejandro Sifrim, and Bart De Moor

Papers by Session

CIDM 2015 Session: 5a: Special Session: Process Mining

❑ Constructing Probable Explanations of Nonconformity: A Data-Aware and History-Based Approach
  Mahdi Alizadeh, Massimiliano De Leoni, and Nicola Zannone

❑ Efficient Process Discovery From Event Streams Using Sequential Pattern Mining
  Marwan Hassani, Sergio Siccha, Florian Richter, and Thomas Seidl

❑ The Analysis of a Real Life Declarative Process
  Søren Debois and Tijs Slaats

Papers by Session

CIDM 2015 Session: 5b: Classification II

- Improving SVM Training Sample Selection Using Multi-Objective Evolutionary Algorithm and LSH
  Romaric Pighetti, Denis Pallez, and Frédéric Precioso

- Subclass Marginal Fisher Analysis
  Anastasios Maronidis, Anastasios Tefas, and Ioannis Pitas

- Multivariate Time Series Classification Using Dynamic Time Warping Template Selection for Human Activity Recognition
  Skyler Seto, Wenyu Zhang, and Yichen Zhou

- Evolving Workflow Graphs Using Typed Genetic Programming
  Tomáš Ken, Martin Pilat, and Roman Neruda

Papers by Session

FOCI 2015 Session: 2: Evolutionary Computation and Machine Learning

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- ❑ Improving Convergence in Cartesian Genetic Programming Using Adaptive Crossover, Mutation and Selection
  Roman Kalkreuth, Günter Rudolph, and Jörg Krone

- ❑ Measuring Saturation in Neural Networks
  Anna Rakitianskaia and Andries Engelbrecht

- ❑ Hybrid Approach for TSP Based on Neural Networks and Ant Colony Optimization
  Dr. Carsten Mueller and Niklas Kiehne

- ❑ An Evolutionary Approach to the Discovery of Hybrid Branching Rules for Mixed Integer Solvers
  Kjartan Brjánn Pétursson and Thomas Philip Runarsson

- ❑ Population-Based Incremental Learning with Immigrants Schemes in Changing Environments
  Michalis Mavrovouniotis and Shengxiang Yang

- ❑ Graph Embedding Exploiting Subclasses
  Anastasios Maronidis, Anastasios Tefas, and Ioannis Pitas

Papers by Session

- ❑ Towards A Generic Computational Intelligence Library: Preventing Insanity
  Gary Pamparà and A.P. Engelbrecht

Papers by Session

CIHLI 2015 Session: 1:

❑ RoboCHAIR: Creative Assistant for Question Generation and Ranking
   Senja Pollak, Borut Lesjak, Janez Kranjc, Vid Podpečan, Martin Žnidaršič, and Nada Lavrač

❑ Enhancing Environmental Surveillance Against Organised Crime with Radial Basis Neural Networks
   Christian Napoli, Emiliano Tramontana, and Marcin Woźniak

❑ A New Two-Stage Approach to the Multiaspect Text Categorization
   Sławomir Zadrożny, Janusz Kacprzyk, and Marek Gajewski

Papers by Session

ICES 2015 Session: 3: Evolvable Digital Systems

❑ An Evolutionary Strategy Based State Assignment for Area-Minimization Finite State Machines
   Yanyun Tao, Lijun Zhang, and Yuzhen Zhang

❑ Designing Polymorphic Circuits with Periodical Weight Adjustment
   Houjun Liang, Rui Xie, and Liang Chen

❑ Investigation of Replicating Tiles in Cellular Automata Designed by Evolution Using Conditionally Matching Rules
   Michal Bidlo

Papers by Session

SDE 2015 Session: 1: Algorithmic Aspects of Differential Evolution

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❑ A Population Adaptation Mechanism for Differential Evolution Algorithm
  Johanna Aalto and Jouni Lampinen

❑ Network Visualization of Population Dynamics in the Differential Evolution
  Petr Gajdoš, Pavel Kromer, and Ivan Zelinka

❑ Continuous Parameter Pools in Ensemble Differential Evolution
  Giovanni Iacca, Fabio Caraffini, and Ferrante Neri

Papers by Session

CIASG 2015 Session: 3: Demand Response

- Demand Response Shifting Management Applied to Distributed Generation and Pumping
  Diogo Boldt, Pedro Faria, and Zita Vale

- Economic Impact of Demand Response in the Scheduling of Distributed Energy Resources
  João Spínola, Pedro Faria, and Zita Vale

- Quantum Particle Swarm Optimization Applied to Distinct Remuneration Approaches in Demand Response Programs
  Fabio Pereira, João Soares, Pedro Faria, and Zita Vale

- An Open Source Matlab/Simulink Toolbox for Interval Type-2 Fuzzy Logic Systems
  Ahmet Taskin and Tufan Kumbasar

Papers by Session

CIDM 2015 Session: 6: Advanced Data Mining Techniques

- ❑ On Accelerated Gradient Approximation for Least Square Regression with L1-Regularization
  Yongquan Zhang and Jianyong Sun

- ❑ Multi-Objective Genetic Programming for Dataset Similarity Induction
  Jakub Šmíd, Martin Pilát, Klára Pešková, and Roman Neruda

- ❑ On Perturbations of Multisets
  Maciej Krawczak and Grayna Szkatua

Papers by Session

CIDM 2015 Session: 7: Special Session: Analysis and Visualization of High Dimensional and Complex Data

- ❑ Model-Based Outlier Detection for Object-Relational Data
  Fatemeh Riahi and Oliver Schulte

- ❑ Inferring Feature Relevances From Metric Learning
  Alexander Schulz, Bassam Mokbel, Michael Biehl, and Barbara Hammer

- ❑ Multiple Graph-Kernel Learning
  Fabio Aiolli, Michele Donini, Nicolò Navarin, and Alessandro Sperduti

Papers by Session

CIES 2015 Session: 1

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❑ What is the Right Context for an Engineering Problem: Finding Such a Context is NP-Hard
Martine Ceberio, Vladik Kreinovich, Hung T. Nguyen, Songsak Sriboonchitta, and Rujira Oncharoen

❑ In Engineering Classes, How to Assign Partial Credit: From Current Subjective Practice to Exact Formulas (Based on Computational Intelligence Ideas)
Joe Lorkowski, Vladik Kreinovich, and Olga Kosheleva

Papers by Session

CIHLI 2015 Session: 2

- A Computational Logic Approach to Human Spatial Reasoning
  Emmanuelle-Anna Dietz, Steffen Hölldobler, and Raphael Höps

- A Novel Approach Toward X-RAY Images Classifier
  Marcin Woźniak, Dawid Połap, Leon Kośmider, Christian Napoli, and Emiliano Tramontana

- Risk-Aware Project Scheduling for Projects with Varied Risk Levels
  Karol Waldzik, Jacek Madziuk, and Sawomir Zadrony

- Design Methodology for Rough Neuro-Fuzzy Classification with Missing Data
  Robert K. Nowicki, Marcin Korytkowski, Bartosz A. Nowak, and Rafal Scherer

Papers by Session

CIEL 2015 Session: 1:

❑ Upper Limb Motor Skills Evaluation in Patients with Early Multiple Sclerosis Using the IDEA System
  Alexandros Pino, Georgios Kouroupetroglou, Nikolaos Papatheodorou, Elisabeth Andreadou, and Charalambos Papageorgiou

❑ Metric-Based Heuristic Space Diversity Management in a Meta-Hyper-Heuristic Framework
  Jacomine Grobler and Andries Engelbrecht

❑ Evolving Non-Linear Stacking Ensembles for Prediction of Go Player Attributes
  Josef Moudřík and Roman Neruda

❑ Acoustic Event Classification Using Ensemble of One-Class Classifiers for Monitoring Application
  Achyut Tripathi, Diganta Baruah, and Rashmi Dutta Baruah

❑ Block Sparse Representations in Modified Fuzzy C-Regression Model Clustering Algorithm for TS Fuzzy Model Identification
  Tanmoy Dam and Alok Deb

Papers by Session

SDE 2015 Session: 2: Problem Oriented Design and Applications of Differential Evolution

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❑ Engineering Fitness Inheritance and Co-operative Evolution Into State-of-the-Art Optimizers
  Aboubakar Hameed, Anna Kononova, and David Corne

❑ Improved Constructive Cooperative Coevolutionary Differential Evolution for Large-Scale Optimisation
  Emile Glorieux, Bo Svensson, Fredrik Danielsson, and Bengt Lennartson

❑ DE vs. PSO: A Performance Assessment for Expensive Problems
  Abdullah Al-Dujaili, M. R. Tanweer, and S. Suresh

❑ Adaptive Differential Evolution Applied to Point Matching 2D GIS Data
  Noel Khan, Ferrante Neri, and Samad Ahmadi

❑ Optimisation of Water Management Systems Using a GPU-Accelerated Differential Evolution
  Jiri Jaros, Jan Marek, and Pavel Mensik

Papers by Session

CIPLS 2015 Session: 2

❑ Hybrid PACO with Enhanced Pheromone Initialization for Solving the Vehicle Routing Problem with Time Windows
  Wei Shi, Thomas Weise, P.R. Raymond Chiong, and Bülent Çatay

❑ Comparing a Weiszfeld's-Based Procedure and (1+1)-es for Solving the Planar Single-Facility Location-Routing Problem
  Pepijn Van Heiningen, Edgar Reehuis, and Thomas Bäck

❑ Crew Constrained Home Care Routing Problem with Time Windows
  Başak Tozlu, Rebi Daldal, Tonguç Ünlüyurt, and Bülent Çatay

❑ An Integrated Matching and Partitioning Problem with Applications in Intermodal Transport
  Erwin Pesch, Dominik Kress, and Sebastian Meiswinkel

Papers by Session

CIFEr 2015 Session: 3: Portfolio Optimization & Hedging Strategies & The Bitcoin Market

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❑ Constraint Handling Methods for Portfolio Optimization Using Particle Swarm Optimization
  Stuart G. Reid and Katherine M. Malan

❑ Order Routing and Arbitrage Opportunities in a Multi-Market Trading Simulation
  Andrew Todd, Peter Beling, and William Scherer

❑ Bitcoin Market Return and Volatility Forecasting Using Transaction Network Flow Properties
  Steve Y. Yang and Jinhyoung Kim

❑ Discrete-Time Quadratic-Optimal Hedging Strategies for European Contingent Claims
  Easwar Subramanian and Sanjay P. Bhat

❑ Winning in Retail Market Games: Relative Profit and Logit Demand
  Jasper Hoogland, Mathijs M. De Weerdt, and Han La Poutré

Papers by Session

CIDM 2015 Session: 8: Special Session: Partially Supervised Learning

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❏ Ensembles of Support Vector Data Description for Active Learning Based Annotation of Affective Corpora
   Patrick Thiam, Markus Kächele, Friedhelm Schwenker, and Guenther Palm

❏ Self-Configuring Ensemble of Neural Network Classifiers for Emotion Recognition in the Intelligent Human-Machine Interaction
   Evgenii Sopov and Ilia Ivanov

❏ Applying Interval Type-2 Fuzzy Rule Based Classifiers Through a Cluster-Based Class Representation
   J. Navarro and C. Wagner and U. Aickelin

Papers by Session

CIES 2015 Session: 2

❑ Computational Intelligence for Efficient Numerical Design of Structures with Uncertain Parameters

  Wolfgang Graf, Marco Götz, Ferenc Leichsenring, and Michael Kaliske

❑ Acceptance-Based Software Architecture Deployment for Improvement of Existing Applications

  Hannes Klee, Michael Buchholz, Torben Materna, and Klaus Dietmayer

❑ A Clustering Approach to a Major-Accident Data Set: Analysis of Key Interactions to Minimise Human Errors

  Raphael Moura, Christoph Doell, Michael Beer, and Rudolf Kruse

❑ Computational Intelligence for Structural Identifications

  Abdullah Al-Hussein and Achintya Haldar

❑ Fault Diagnosis and Evaluation of the Performance of the Overcurrent Protection in Radial Distribution Networks Based on Wavelet Transform and Rule-Based Expert System

  Helton Do Nascimento Alves

Papers by Session

SIS 2015 Session: 4: Other Swarm Intelligence Algorithms

❑ A Swarm-Based Approach to Learning Phase-Type Distributions for Continuous Time Bayesian Networks
   Logan J. Perreault, Monica Thornton, Rollie Goodman, and John W. Sheppard

❑ Differential Evolution with Random Walk Mutation and an External Archive for Multimodal Optimization
   Yu-Hui Zhang, Meng-Ting Li, Yue-Jiao Gong, and Jun Zhang

❑ The Impact of Subcultures in Cultural Algorithm Problem Solving
   Robert G. Reynolds, Yousof A. Gawasmeh, and Areej Salaymeh

❑ A Modified Chaotic Firefly Algorithm for Solving Discrete Logarithm Problem and Analysis
   Mohit Mishra, Varanasi, Utkarsh Chaturvedi, Varanasi, K.K. Shukla, and R.V. Yampolskiy

Papers by Author

A

- Aalto, Johanna
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Papers by Author

B

- Bachoo, Asheer K.
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Papers by Author

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C

- Cabanes, Guénaël
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- Campo, Inés Del
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Papers by Author

- ❑ Chen, Wei-Neng
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D

- ❑ Daldal, Rebi
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- ❑ Datta, Kaushik
- ❑ Davis, Jesse
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- ❑ Deb, Alok
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Papers by Author

- Debois, Søren
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- Ducan, Roderick

E

- Ebert, Tobias
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Papers by Author

F

- Faina, Andres
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- Fujimoto, Noriyuki

G

- Gabrielsson, Patrick
- Gajdoš, Petr
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- García-Pardo, F.
- Gawasmeh, Yousof A.
- Geng, Huantong
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Papers by Author

- Gong, Yue-Jiao
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- Guerrero, Juan
- Guitierrez, Leonel
- Guo, Bo
- Gupta, Dhruv
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- Gupta, Phalguni

H

- Habtie, Ayalew Belay
- Haldar, Achintya
- Hamann, Heiko
- Hameed, Aboubakar
- Hamida, Sana Ben
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- Hauwere, Yann-Michaël De

Papers by Author

- Heikkilä, Markku
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- Hemmati, Mahdi
- Hewland, Jamie
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- Hofmeyr, David
- Hofstadler, Daniel
- Hölldobler, Steffen
- Holopainen, Markus
- Hoogland, Jasper
- Höps, Raphael
- Huang, Chao

- Hurtík, Petr
- Hussain, Amir

I

- Iacca, Giovanni
- Idri, Ali
- Inden, Benjamin
- Inoue, Hirofumi
- Ishibuchi, Hisao
- Islam, Md. Nazrul
- Ito, Shoma
- Ivanov, Ilia

J

- Jagannathan, S.
- Jaros, Jiri
- Jayawardene, Iroshani

Papers by Author

- Jiménez, Fernando
- Johansson, Ulf
- Johnson, Craig
- Johnson, Reid A.
- Jørgensen, Bo Nørregaard
- Joshi, Vaibhav B.
- Jost, Jürgen

K

- Kächele, Markus
- Kacprzyk, Janusz
- Kaddoura, Sanaa
- Kadi, Ilham
- Kaiser, Shamim
- Kakudi, Habeebah
- Kaliske, Michael
- Kalkreuth, Roman

- Kampmann, Geritt
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- Kanazaki, Masahiro
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- Kar, Rajib
- Karaaba, Mahir
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- Karande, Vishal
- Kaymak, U.
- Kazakov, Dimitar
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Papers by Author

- Khan, Parvez
- Khashanah, Khaldoun
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- Kong, Adams Wai Kin
- Kononova, Anna
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- Korenek, Jan
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