

**** ISDA 2012 - Conference Technical Programme ****

R1: Electronics Auditorium

R2: Polymer Science Auditorium

R3: Computer Science Auditorium

Day 1 - November 27, 2012

08:30 - 15:00 Registration
 09:15 - 9:20 Opening briefing
 09:20 - 10:20 Tutorial Part I: Boris Stilman, University of Colorado Denver, USA
 10:20 - 10:40
 10: 40 - 11: 30 Conference official inauguration
 11:30 - 12:30 Tutorial Part II: Boris Stilman, University of Colorado Denver, USA
 12:30 - 13:30

Coffee Break

Lunch

1:30-15:30	Session Chair-Virgilijus Sakalauskas , VILNIUS UNIVERSITY, Lithuania	Session Chair-Jan Samek, FIT, VUT Brno, Czech Republic	Session Chair-Garenth Lim king Hann, Curtin University, Malaysia
	Business Applications	Machine Learning Part 1	Signal Processing Applications
	Hybrid Classifier based on Particle Swarm Optimization trained Auto Associative Neural Networks as non-linear principal component analyzer: Applications to Banking V. Ravi, Naveen Nekuri and Manideeptho Das	Knowledge Representation and Reasoning Based on Generalised Fuzzy Petri Nets Zbigniew Suraj	Stereo Matching with VG-RAM Weightless Neural Networks Lucas de Paula Veronese, Lauro JosŽ Lyrio Junior, Filipe Wall Mutz, Jorcy de Oliveira Neto, Vitor Barbirato Azevedo, Mariella Berger, Alberto Ferreira De Souza and Claudine Badue
	Notification of Data-Stream Events in Publish/Subscribe Systems Using Fuzzy Matching Rahul Prabhu H and Shrisha Rao	Visualjclec: A Visual Framework For Evolutionary Computation Juan Ignacio JaŽn Mari–as, Jose-Raul Romero and Sebastian Ventura Soto	Traffic Sign Recognition with VG-RAM Weightless Neural Networks Mariella Berger, Avelino Forechi, Alberto Ferreira De Souza, Jorcy de Oliveira Neto, Lucas de Paula Veronese and Claudine Badue
	Case study: Different Approaches and Their Aspects for Partner Selection Based on Trust Ondrej Malacka, Jan Samek, Frantisek Zboril and Frantisek V. Zboril	Ranking of Trapezoidal Intuitionistic Fuzzy Numbers Pijus Kanti De and Debarati Das	Content-Based Leukocyte Image Retrieval Ensembling Quaternion Fourier Transform and Gabor-wavelet Features Prabir Sarkar, Chandan Chakraborty and Madhumala Ghosh
	Promoting Products Online Using Firefly Algorithm Monika Bajaj and Hema Banati	A Local Complexity Based Combination Method for Decision Forests Trained with High-dimensional Data Yoisel Campos Hidalgo, Carlos Morell and Francesc J. Ferri	Optimized Analog Filter Approximation via Evolutionary Algorithms Revna Acar Vural and Umut Engin Ayten
	Slicing based Reverse Engineering of Business Applications Anupama Surendran and Philip Samuel	Learning Similarity Metric to improve the performance of Lazy Multi-label Ranking Algorithms Oscar G Reyes, Carlos Morell and Sebastian Ventura	A Comparative Study on Single-Channel Noise Estimation Methods in Speech Enhancement Hadi Veisi and Hossein Sameti
	Development of controller based seed cum fertilizer drill Karan Singh, Kamal Nayan, Anurag Kumar Dubey and M P Chandra	An Opinion-based Framework for Designing Socially-aware e-Learning Systems Richa Sharma, Savita Datta, Hema Banati and Punam Bedi	A Novel Block Matching Algorithmic Approach with Smaller Block Size for Motion Vector Estimation in Video Compression Suvojit Acharjee, Nilanjan Dey, Debalina Biswas, Poullami Das and Sheli Sinha Chaudhuri
	Ground-Image Plane Mapping for Lane marks detection Lim King Hann and Gopalai Alpha Agape	An Expected Value Model of Quadratic Clique Problem on a Graph with Fuzzy Parameters Sk Md Abu Nayeem	Source Number Estimation in Shallow Ocean by Acoustic Vector Sensor Array Using Gerschgorin Disks N. Suresh Kumar, G. V Anand, S Roul and Dibu Philip

15:30 - 16:00

Coffee Break

16:00 - 17:00	Session Chair-Dr. Varghese Paul	Session Chair-Dr. K.V.Pramod, CUSAT	Session Chair-Dr. Punam Bedi, University of Delhi, NEW DELHI
	Software Technologies Part 1	Intelligent Mobile & Web Applications	Biometrics & Computer Vision Part 1
	Active Vibration Control of a Smart Cantilever Beam: A Comparison between Conventional and Real Time Operating Systems Arun P Parameswaran and K V Gangadharan	Identifying Online Opinion Leaders Using K-means Clustering Shrihari Hudli, Anand Hudli and Aditi Hudli	Rotation and Scale Invariant Posture Recognition using Microsoft Kinect Skeletal Tracking Feature Samiul Monir, Sabirat Rubya and Hasan Shahid Ferdous
	SQLStor: Blockage of Stored Procedure SQL Injection Attack Using Dynamic Query Structure Validation Sruthy Manmadhan, T Manesh and Varghese Paul	Design Of A Metacrawler For Web Document Retrieval K R Remesh Babu and A P Arya	Performance Evaluation of Bio-Medical Datasets at Their Critical Dimension Divya Suryakumar, Andrew Sung, Subhashish Mazumdar and Qingzhong Liu
	A Methodology for GPS-based Waterlogging Prediction and Smart Route Generation Anirban Dutta Choudhury, Amit Agrawal, Priyanka Sinha, Chirabrata Bhaumik, Avik Ghose and Syed Bilal	WSDL-TC : Collaborative Customization of Web Services Hema Banati, Punam Bedi and Preeti Marwaha	Realization of an Embeddable Light Weight Video OCR Chattopadhyay and Utpal Garain Tanushyam
	Improving Design Quality by Automatic Verification of Activity Diagram Syntax Renu George and Philip Samuel	Image Denoising using Dynamic Stochastic Resonance in Wavelet domain Rajlaxmi Chouhan, Rajib Kumar Jha and Prabir Kumar Biswas.	Object and Shadow separation using Fuzzy Markov Random Field and Local Gray Level Co-occurrence Matrix based Textural Features Badri Narayan Subudhi, Susmita Ghosh and Ashish Ghosh
	Domain Ontology Based Class Diagram Generation From Functional Requirements Jyothilakshmi M S and Philip Samuel	A Framework for Classification Using Genetic Algorithm Based Clustering Durga Toshniwal and Satish Gajawada	Individuality of Bangla Numerals Chayan Halder, Jaya Paul and Kaushik Roy
			DWT-DCT-SVD Based Blind Watermarking Technique of Gray Image in Electrooculogram Signal Nilanjan Dey, Debalina Biswas, Anamitra Bardhan Roy, Achintya Das and Sheli Sinha Chowdhury

Day 2: November 28, 2012

08:30 - 15:00 Registration

09:20 - 10:20 Plenary Talk I: Sankar K. Pal, Indian Statistical Institute, Kolkata, India

10:20 - 10:40

Coffee Break

	Session Chair-Prof. Toshiyuki Maeda, Hannan University, JAPAN	Session Chair-Bernadetta Kwintiana Ane, University of Stuttgart, GERMANY	Session Chair-Dr. Jose Raul Romero, University of Cordoba, SPAIN
10:40 - 12:40	Security & Network Applications	Machine Learning Part 2	Robotics & Control System
	BSnort IPS Padmashani R, Shiju Sathyadevan and Devi Dath	Efficiency Enhancement Of Pv Panel Using Soft Computing Based On Seeker Optimization Algorithm And Seven Level Inverter Configuration Lavanya M, Revathi R and Sevugan Rajesh J	Path Planning of Mobile Robot with Neuro-Fuzzy Technique Khelchandra Thongam, Jie Huang and Somen Debnath
	Security in Cognitive Radio Networks D A Survey Sumathi A C and Dr.Vidhyapriya R	Using Domain Specific Generated Rules for Automatic Ontology Population Carla Faria, Rosario Girardi and Paulo Novais	Droplet Routing and Wash Droplet Scheduling Algorithm to Remove Cross-contamination in Digital Microfluidic Biochip Indrajit Pan, Soumyajit Chatterjee and Tuhina Samanta
	An Implementation of a New public key System based on RSA which leads hackers solve multiple hard problems to break the cipher Rasmi P S and Dr.Varghese Paul	A Two Phase Hybrid Method To Support 2D And 3D Vehicle Loading Oberlan C. Romo, Andr�z G. Santos and Jos� E. C. Arroyo	A novel testing system for a Cycloidal drive Naren Kumar, Vladis Kosse and Adekunle Oloyede
	Generic Feature Selection Measure for Botnet Malware Detection Peter Ekstrand Berg, Katrin Franke and Hai Nguyen	A Biology-Based Template-Matching Framework Helio Perroni Filho and Alberto Ferreira de Souza	Analysis of Multimodal Time Series Data of Robotic Environment Radhakrishnan Gopalapillai, Deepa Gupta, Abhishek Rnair, Ankita Ajith and Sudarshan Tsb
	Mobile code placement in wireless sensor networks Jan Horacek and Frantisek Zboril	Time Series Data Analysis for Sport Skill Toshiyuki Maeda	FPGA Based Model Predictive Controller for Dynamic Power Management of a Battery Powered Electric Car Dennis Babu, Anirudh Kumar and Joydeb Roychowdhury
	Efficient Path Estimation Routing Protocol for QoS in Long Distance MANETs Syed Jalal Ahmad, V.S. K. Reddy, A Damodaram and P Radha Krishna	LoG-DEM: Log Gabor Filter and Dominant Eigen Map Approaches for Moving Object Detection and Tracking Gopala Krishna, Ravi Shankar and Ramesh Babu	Design of TMS320C6713 DSP based Fuzzy Logic Controller Pallab Maji, Sarat Patra and Kamala Kanta Mahapatra
	A Smart Wireless Battery Monitoring System for Electric Vehicles Shema Mathew, Prakash R. and Philip John	Interval-Valued Fuzzy Graph Representation Of Concept Lattice Prem Kumar Singh and Aswani Kumar Cherukuri	Design of 1553 protocol controller for reliable data transfer in aircrafts Jemti Jose and Sharone Varghese
	Off-line Signature Verification using G-SURF Srikanta Pal, Sukalpa Chanda, Umapada Pal, Michael Blumenstein and Katrin Franke	Metaheuristics for the Single Vehicle Routing Problem with Deliveries and Selective Pickups Bruno P. Bruck, Andr�z G. Santos and Jos� E. C. Arroyo	

12:30 - 13:30

Lunch

	Session Chair-Frantisek Zboril Jr., Brno University of Technology,Czech Republic	Session Chair-Dr. Punam Bedi, University of Delhi, NEW DELHI	Session Chair-R. Marshall, Plymouth State University, New Hampshire, USA
13:40-15:40	Security & Network Applications Part 2	Data Mining Part 1	Biometrics & Computer Vision Part 2
	Novel one hop Virtual group Shared Key Management in Mobile Ad hoc Networks Saju P John	A Genetic Programming Free-Parameter Algorithm for Mining Association Rules Juan Luis Olmo Ortiz, Alberto Cano, Jose-Raul Romero and Sebasti�n Ventura	Detection of Insertion Error Parts in Electronic Boards using HSV Color Format Tomoya Mogi, Mitsuhiro Namekawa and Yoshinori Ueda
	JADE Agents Used for Wireless Sensors Control: System Based on Services Jakub Zak, Frantisek Zboril, Jan Horacek, Radek Koci and Jiri Kral	Temporal Outlier Detection using Unexpectedness Measures on Quantitative Data Rajeswari A.M., Abirami Nachammal V, Aishwarya G.V. and Deisy C	Noble Approach for Texture Classification Of H&E Stained Histopathological Image By Gaussion Wavelet Pranshu Saxena and Sanjay Kumar Singh
	Reconfigurable Router Using Ribs Algorithm Dhanya Oommen and Pradeep C	Representation and Automatic Learning of Temporal Relations Between Time Periods with Uncertain Boundaries Maria Nicoletti, Flavia Lisboa, Estevam Hruschka Jr. and Osvaldo Oliveira	Biometric Authentication Using Finger Nail Surface Shruti Garg, Amioy Kumar and Madasu Hanmandlu
	Coverage Based Route Maintenance in MANET Routing Protocol Jisha G and Philip Samuel	Classification of RSS Feed News Items Shikha Agarwal, Archana Singhal and Punam Bedi	Automatic Face Recognition in a crowded scene using Multi layered clutter filtering and Independent Component Analysis Chandrupa D N and Ravishankar M
	Mobile Process Groups based Device/Service Discovery and Interoperability in MANets Aakanksha Vatsa and Punam Bedi	Binary and Multiclass Imbalanced Classification Using Multi-Objective Ant Programming Juan Luis Olmo Ortiz, Alberto Cano, Jose-Raul Romero and Sebasti�n Ventura	Devising Simulink Optical Encoder Pulse Manipulation and its Evaluation Jiss Mohan and Naveena Johnson
	Detection of Exhaustion Attacks over IEEE 802.15.4 MAC Layer Using Fuzzy Logic System Chinnaiah Balarengadurai and Saraswathi Selvarajan	Unified Modelling Framework for UAVs using Bond Graphs S.Veera Ragavan, Madhavan Shanmugavel, Bijan Shirinzadeh, Velappa Ganapathy	IR Based Color Image Preprocessing Using PCA with SVD Equalization Narsimha Baddiri
	An Enhanced Media Independent Handover Framework for Heterogenous Wireless Networks Bala Murali Krishna Komanduri and Bheemarjuna Reddy Tamma	Evaluation the Day-of-the-Week Effect using Long Range Dependence Measures Virgilijus Sakalauskas and Dalia Kriksuniene	Disease Diagnosis in Crops using Content Based Image Retrieval Sudeep Marwaha, Subhash Chand and Arijit Saha
	mSFP: Multicasting-based Inter-Domain Mobility Management Scheme in Sensor-based Fast Proxy Mobile IPv6 Networks Hana Jang and Jongpil Jeong	Prediction of Risk Score for Heart Disease using Associative Classification and Hybrid Feature Subset Selection Akhlil Jabbar Meerja	

16:00- 17:00 Poster session

17:00 - 20:00

Cultural Evening and Conference banquet - Polymer Science Auditorium

Day 3: November 29, 2012

08:30 - 15:00 Registration

09:20 - 10:20 Plenary Talk II: Boris Stilman, University of Colorado Denver, USA

10:20 - 10:40

10:40 - 11:40 Plenary Talk III: R. Marshall, Plymouth State University, New Hampshire, USA

Coffee Break

11:40-13:00	Session Chair-Helio Perroni Filho, Universidade Federal do Espirito Santo, BRAZIL	Session Chair-Dalia Kriksciuniene, VILNIUS UNIVERSITY, Lithuania	Session Chair-Zbigniew SURAJ, University of Rzeszow, POLAND
	Software Technologies Part 2	Data Mining Part 2 & Industrial Applns	Intelligent Agent & Recommender Systems
	Ontology based Framework for Semantic Resolution of Geospatial Query Shrutilipi Bhattacharjee, Rendhir R Prasad, Akash Dwivedi and Soumya Ghosh	Unsupervised Document Summarization Using Clusters of Dependency Graph Nodes Ayman El-Kilany and Iman Saleh	HRSPCA: Hybrid Recommender System for Predicting College Admission Abdul Hamid Ragab, Abdul Fatah Mashat and Ahmed Khedra
	CUDA Code Support in Multiagent Platform JADE Lukas Zaoralek and Petr Gajdos	Rough Set Based Clustering in Dense Web Domain Rajhans Mishra, Pradeep Kumar and Bharat Bhasker	Trust enabled Argumentation Based Recommender System Pooja Vashisth, Deepak Chandoliya, Bipin Kumar Yadav and Punam Bedi
	Translation Of Behavioral Models To Source Code Sunitha E V and Philip Samuel	Informal eLearning using Multi Agent Systems Anjali Thukral, Savita Datta, Hema Banati and Punam Bedi	Multi-Agent System Based Portfolio Management in Prior-to-crisis and Crisis Period Sarunas Raudys, Aistis Raudys and Zidrina Pabarskaite
	ODMA : A New Metaheuristic Optimization Algorithm Based On Open Source Development Model Hossein Hajipour, Hamed Behzadikhormuji, Habib Rostami and Rozita Jamili Oskoue	Industrial Applications of Linguistic Geometry Oleg Umanskiy, Ron Boyd, Viacheslav Pugachev, Lance Hagen, Vladimir Yakhnis and Boris Stilman	A Heuristic as Basis for an Adaptive E-Commerce Recommender System Elmar P. Wach
	Minimum User Requirement in Role Based Access Control with Separation of Duty Constraints Arindam Roy, Shamik Sural and Arun Majumdar	Analysis and Monitoring of a High Density Traffic Flow at T-Intersection Using Statistical Computer Vision Based Approach Mohammad Farukh Hashmi and Avinash G. Keskar	Using Self-Organizing Maps in Constrained Ensemble Clustering Framework Visakh R

13:00 - 13:15 - Closing ceremony

13:15 - 14:00:

Lunch

Poster

Automatic Decryption of Images through Artificial Neural Networks
Hüsamettin Uysal, Sinem Kurt, Tülay Yıldırım

Service Crawler Based Effective and Dynamic Discovery Mechanism for Web Services Available over the Internet
Demian Antony Dmello, Supriya Salián, Sahana A, Nishmitha Shetty, Carol Rodrigues and Chrystal DÔSouza

Comparative Analysis Of Pca-Based And Neural Network Based Face Recognition System
Adebayo Kolawole John, Onifade Olufade Williams and Yisa Fatai Idowu

A Model to Integrate Software Project Management with Organizational Workflows
Mauricio Rosito and Ricardo Bastos

Domain Adaptation to Automatic Classification of Neonatal Amplitude-Integrated EEG
Yang Liu, Weiting Chen, Su Yang and Kai Huang

A Bio-Inspired Perspective Towards Retail Recommender System: Investigating Optimization in Retail Inventory
Soumya Banerjee, Neveen Ghali, Arup Roy and Aboul Ella Hassanien

Fuzz-Onto: a Meta-Ontology for Representing Fuzzy Elements and Supporting Fuzzy Classification Rules
Cristiane Yaguinuma, Marilde Santos, Heloisa Camargo, M. Nicoletti and Tatiane Nogueira

The Role of Crossover in Evolutionary Approaches to Resource-Constrained Project Scheduling
Anca Andreica and Camelia Chira

Congestion Control by Dynamic Sharing of Bandwidth among Vehicles in VANET
Trishita Ghosh and Sulata Mitra

Performance Analysis on 3-D Surface Reconstruction of MRI Head Images
Preetha Ramiah and Suresh G R

Exponential Stability of Hysteresis Neural Networks with Varying Inputs
Guddeti Padmavathi And Pasupuleti Venkata Siva Kumar

Evaluating the Effects of K-means Clustering Approach on Medical Images
Hossam Moffah, Walaa Elmasry, Nashwa El-Bendary, Aboul Ella Hassanien and Kazumi Nakamatsu

Genetic Algorithms for Multi-Objective Community Detection in Complex Networks
Ahmed Ibrahim Hafez, Neveen Ghali, Aboul Ella Hassanien and Ali Fahmy

Community Optimization: Function Optimization by a Simulated Web Community
Christian Veenhuis

Refinement of Recommendations Based on User Preferences
Harita Mehta, Veersain Dixit and Punam Bedi

Design and Implementation of IP Network Behaviour Analysis System based on Netflow
Huihui Hou, Tongge Xu and Rongbo Zou

Predicting the Priority of a Reported Bug using Machine Learning Techniques and Cross-Project Validation
V.B. Singh, Meera Sharma, Punam Bedi and K. K. Chaturvedi

A Finger-Knuckle-Print Authentication System Based on DAISY Descriptor
Neha Mittal, Madasu Hanmandlu and Ritu Vijay

An Approach to Semi-Automatic Semantic Annotation on Web3D Scenes Based on An Ontology Framework
Mengwei Shi, Hongming Cai and Lihong Jiang

Fuzzy Cluster Descriptors Improve Flexible Organization Of Documents
Tatiane Nogueira, Heloisa Camargo and Solange Rezende

Implementation of An Area Efficient Data Converter With Increased Effective Number Of Bits
Jyothish Chandran G and Shajimon K. John

A Formalism Of The Object Compounds Viewed As Information Processing Support
Luciana Morogan and Ajith Abraham

A Flexible Approach for Providing Adaptivity in Learning Management System Based on Learning Styles
Samar Alkhuraiji, Mohammed Abdel Razek, Barry Cheetham and Omaima Bamasak

Entropy Based Bug Prediction Using Support Vector Regression
V.B. Singh and K. K. Chaturvedi

Formal Concept Analysis for Mining Hypermethylated Genes In Breast Cancer Tumor Subtypes
Islam Ibrahim Amin, Samar Kassim, Aboul Ella Hassanien and Hesham Hefny

A Recommender System Architecture for an Inter-applications Environment
Eduardo Santos, Byron Bezerra, Jefferson Amorim and Arthur Nascimento

A Combinatorial Auction Mechanism for Multiple Resource Procurement in Cloud Computing
Vinu Prasad, Shrisha Rao and Abhinandan S Prasad

Qualitative Directions In Egocentric Spatial Reference Frame
Rupam Baruah and Shyamanta M Hazarika

Face Recognition System Invariant to Plastic Surgery
Lakshmi Prabha Nattamai Sekar

Online Proceedings Poster Papers

Design and Development of Genetic Algorithm for Test Interval Optimization of Safety Critical System for a Nuclear Power Plant
Molly Mehra, M L Jayalal, A John Arul, S Rajeswari, K Kuriakose and S A V Satya Murty

Incorporating Negative Association Rules to discover meaningful Outlier from Non-Reduct computation: A Medical predictive Analysis
Faizah Shaari

Communication as an essential factor for effort estimation in GSD
Manoj Ray

A Study on Random Walk of Equity Futures Market with Reference to National Stock Exchange, India
Prakash Pinto, Ajaya A and Preeti Menezes

Minimum Delay Routing Protocol with Enhanced Multimedia Transmission over Heterogenous MANETS
Khaja Anwar Ali Siddiqui and Yousuf Khan Afroz

Architecture Design for SHA-1 Controller Core
Sruthi Prasad P V, Remya K Manohar and Nandakumar.R

A Threshold Based Multi-Label Classification
Durga Prasad Muni, Bintu G. Vasudevan and Rajesh Balakrishnan

Face Expression Detection Using Microsoft Kinect with the Help of Artificial Neural Network
Vineetha G R, Sreeji C and Lentin Joseph

1.5v, .18u Area Efficient 32 Bit Adder Using 4T XOR & Modified Manchester Carry Chain
Ajith Ravindran and Pradeep C

Privacy Preserving Quantitative Association Rule Mining
Sathiyapriya K., Sudha Sadasivam G, Aarthi V, Divya K and Suganya C J P

Investigate the effect of semisupervised approach on hindi word sense disambiguation
Neetu Mishra and Tanveer Siddiqui

A Reinforcement Learning Approach to Hydrothermal Scheduling Problem
Latha, T.P.Imthias Ahamed and P.S Sreejith

P.G

Intelligent System for Feature-based Recognition of Machining Parts from Points Cloud, Bernadetta Kwintiana Ane

A Novel Discretization for Parameter Learning in Bayesian Network using Dynamic Programming
Satyabrata Pradhan and P. Radha Krishna