



Institute for Development and Research in Banking Technology
(Established by Reserve bank of India)

5th International Conference on Fuzzy and Neural Computing
FANCCO – 2015
December 16 – 19, 2015

Pre – Conference Tutorials – December 16, 2015 (Wednesday)

Timings	:	Sessions
09.00 – 09.45 am	:	REGISTRATION
09.45 – 10.00 am	:	HIGH TEA
10.00 – 01.15 pm	:	Tutorial – 1 Prof. B. Yegnanarayana; Chair: Prof. B.L. Deekshatulu
01.15 – 02.15 pm	:	LUNCH
02.15 – 05.30 pm	:	Tutorial - 2 Prof. M. Narasimha Murty; Chair: Prof. V. Ravi
05.30 – 05.45 pm	:	TEA BREAK

Conference Day 1 – December 17, 2015 (Thursday)

09.00 – 10.00 am	:	REGISTRATION
10.00 – 11.00 am	:	Inauguration Dr. Y.V. Reddy
11.00 – 11.30 am	:	HIGH TEA
11.30 – 12.45 pm	:	Keynote – 1 Evolutionary Fuzzy Systems – History and Recent Developments – Prof. Tadihiko Murata, Kansai University, Japan - Chair: Prof. V. Ravi
12.45 – 01.30 pm	:	LUNCH
01.30 – 02.30 pm	:	Invited Talk Prof. Dipankar Dasgupta - Chair: Prof. B. K. Panigrahi, IIT, Delhi
02.30 – 02.45 pm	:	TEA BREAK
02.45 – 05.15 pm	:	Technical Session – 1 – Chair: Dr. B. M. Mehtre
02.45 – 03.10 pm	:	Tweet Sentiment Classification using an Ensemble of Machine Learning Supervised Classifiers Employing Statistical Feature Selection Methods – Lakshmi Devi K., Subathra P. and Narendra Kumar Parambalath
03.10 – 03.35 pm	:	Multiple Fuzzy Correlated Pattern Tree Mining using Minimum Item All-Confidence Thresholds – Radhakrishnan Anuradha, Nallaiah Rajkumar and Venkatachalam Sowmyaa
03.35 – 04.00 pm	:	Autonomous Visual Tracking with Extended Kalman Filter Estimator for Micro Aerial Vehicles – K. Narsimlu, T.V. Rajini Kanth, and Devendra Rao Guntupalli
04.00 – 04.25 pm	:	Identification of Uncertain Mass and Stiffness Matrices of Multi-Storey Shear Buildings using Fuzzy Neural Network Modelling

		– S. Chakraverty and Deepti Moyi Sahoo
04.25 – 04.50 pm	:	Fuzzy Approach to Rank Global Climate Models – K. Srinivasa Raju and D. Nagesh Kumar
04.50 – 05.15 pm	:	Comparative Analysis of ANFIS and SVR Model Performance for Rainfall Prediction – Akash Dutt Dubey
05.15 – 05.40 pm	:	Cross Domain Sentiment Analysis using Different Machine Learning Techniques – Mahalakshmi S. and Sivasankar E.

Conference Day 2 – December 18, 2015 (Friday)

09.00 – 10.15 am	:	Keynote – 2 Uncertainty Handling using Neural Network-Based Prediction Intervals – Prof. Dipti Srinivasan, NUS, Singapore – Chair: Prof. B. L. Deekshatulu
10.15 – 10.30 am	:	TEA BREAK
10.30 – 12.35 pm	:	Technical Session – 2 – Chair: Prof. Atul Negi
10.30 – 10.55 am	:	Combining ELM with Random Projections for Low and High Dimensional Data Classification and Clustering – Abobakr Khalil Alshamiri, Alok Singh and Bapi Raju Surampudi
10.55 – 11.20 am	:	Framework for Knowledge-driven Optimisation based Data Encoding for Brain Data Modelling using Spiking Neural Network Architecture – Neelava Sengupta, Nathan Scott and Nikola Kasabov
11.20 – 11.45 am	:	Short Circuit Evaluations in Gödel Type Logic – Raed Basbous, Benedek Nagy and Tibor Tajti
11.45 – 12.10 pm	:	Coefficient of Variation based Decision Tree for Fuzzy Classification – Hima Bindu K and Raghavendra Rao C
12.10 – 12.35 pm	:	Predicting Protein Coding Regions by Six-base Nucleotide Distribution – Praveen Kumar Vesapogu, Changchuan Yin and Bapi Raju Surampudi
12.35 – 01.15 pm	:	LUNCH
01.15 – 02.30 pm	:	Keynote – 3 Cognitive Computing: Research Challenges and Applications – Prof. Raghuram Krishnapuram, Xerox Innovation Group, India – Chair: Prof. V. Ravi
02.30 – 02.45 pm	:	TEA BREAK
02.45 – 05.15 pm	:	Technical Session – 3 – Chair: Prof. Rajiv Wankar
02.45 – 03.10 pm	:	Ontology for Education System and Ontology based Clustering – A Brahmananda Reddy and A Govardhan
03.10 – 03.35 pm	:	Neural Networks for Fast Estimation of Social Network Centrality Measures – Ashok Kumar, Kishan G. Mehrotra and Chilukuri K. Mohan
03.35 – 04.00 pm	:	Scale-free Memory to Swiftly Generate Fuzzy Future Predictions – Karthik H. Shankar, Marc W. Howard
04.00 – 04.25 pm	:	Assessment of Vaccination Strategies using Fuzzy Multi-Criteria Decision Making – Daphne Lopez and M. Gunasekaran
04.25 – 04.50 pm	:	Ranking and Dimensionality Reduction using Biclustering – V. Hema Madhuri and T. Sobha Rani
04.50 – 05.15 pm	:	TEA BREAK
07.00 – 08.00 pm	:	Cultural Programme (Venue: IDRBT Auditorium)
08.00 – 09.00 pm	:	Conference Dinner (Venue: IDRBT Lawns)

Conference Day 3 – December 19, 2015 (Saturday)

09.00 – 10.15 am	:	Keynote – 4 Understanding Global Change: Opportunities and Challenges for Data Driven Research – Prof. Vipin Kumar, University of Minnesota, USA – Chair: Prof. V. Ravi
10.15 – 10.30 am	:	TEA
10.30 – 01.00 pm	:	Technical Session – 4 – Chair: Prof. B. L. Deekshatulu
10.30 – 10.55 am	:	Effect of Fractional Order in Pole Motion – Sucheta Moharir and Narhari Patil
10.55 – 11.20 am	:	Sewage Water Quality Index of Sewage Treatment Plant using Fuzzy MCDM Approach – Purushottam S. Dange and Ravindra K. Lad
11.20 – 11.45 am	:	Fuzzy Formal Concept Analysis approach for Information Retrieval – Aswani Kumar Cherukuri, Chandra Mouliswaran Subramanian, Amriteya Pandey and Arun S.R.
11.45 – 12.10 pm	:	Privacy Preserving Collaborative Clustering using SOM for Horizontal Data Distribution – Latha Gadepaka and Bapiraju Surampudi
12.10 – 12.35 pm	:	A Hybrid Approach to Classification of Categorical Data based on Information-Theoretic Context Selection – Madhavi Alamuri, Bapi Raju Surampudi and Atul Negi
12.35 – 01.00 pm	:	Robust Stabilization of Uncertain T-S fuzzy systems: An Integral Error Dependant Sliding Surface Design Approach – Nilanjan Mukherjee, T.K. Bhattacharya and Goshaidas Ray
01.00 – 02.00 pm	:	LUNCH
02.00 – 03.15 pm	:	Keynote 5 Spiking Neural Networks for On-Line Temporal Stream Data Modelling and Prediction – Prof. N. Kasabov, Auckland University of Technology, New Zealand – Chair: Prof. V. Ravi
03.15 – 03.30 pm	:	TEA BREAK
03.30 – 05.10 pm	:	Technical Session-5 – Chair: Dr. K.S. Madhavan, BHEL (R&D), Hyderabad
03.10 – 03.35 pm	:	Extreme Learning Machine for Eukaryotic and Prokaryotic Promoter Prediction – Praveen Kumar Vesapogu and Bapi Raju Surampudi
03.35 – 04.00 pm	:	A Hybrid Approach to the Maximum Clique Problem in the Domain of Information Management – Alexander Demidovsky, Eduard Babkin and Tatiana Babkina
04.00 – 04.25 pm	:	An Integrated Network Behavior and Policy Based Data Exfiltration Detection Framework – R. Rajamenakshi and G. Padmavathi
04.25 – 04.50 pm	:	Web Usages Mining in Automatic Detection of Learning Style in Personalized E-Learning System Soni Sweta and Kanhaiya Lal
04.50 – 05.15 pm	:	VALEDICTION