INVITED SESSION SUMMARY

Title of Session:

Classification, forecasting and decision support

Name, Title and Affiliation of Chair:

Rafal Deja, Assoc. Prof., Department of Computer Science, WSB University, Dabrowa Gornicza, Poland

Alicja Wolny-Dominiak, Assoc. Prof., Department of Statistical and Mathematical Methods in Economics, University of Economics in Katowice, Poland

Details of Session (including aim and scope):

The objective of the session is the presentation of original, unpublished results on recent advances in classification, forecasting and decision support systems. The suggested but not limited scope of thesession includes the following topics:

- Classification – theory and applications
- Committees of classifiers
- Classification of biometric data
- Time series forecasting, temporal data analysis
- Deep learning
- Conflict resolution in classification and forecasting
- Dealing with missing and lacking data in classification and forecasting
- Feature selection for classification and forecasting
- Dealing with big data in classification and forecasting
- Soft computing techniques (fuzzy sets, rough sets and other)
- Neuro, fuzzy and neuro-fuzzy models, fuzzy cognitive maps
- Statistical models, statistical reasoning
- Decision support systems (DSS) – design and implementation
- Multi-criteria decision problems
- Medical DSS, medical diagnosis, medical guidelines, medical pathways
- Financial DSS, financial forecasting

Main Contributing Researchers / Research Centres (tentative, if known at this stage):

Prof. Abdellah Chehri with his team, Department of Mathematics and Computer Science, Royal Military College of Canada
Prof. Aleksander Dawid and the Department of Computer Science, WSB University
Prof. Dorota Żebrowska-Suchodolska, The Institute of Economics and Finance, Warsaw University of Life Sciences, Warsaw
Prof. Sheela Ramanna, Department of Applied Computer Science, University of Winnipeg
Prof. Rafal Drezewski, Faculty of Computer Science, Electronics and Telecommunications.
AGH University of Science and Technology, Krakow, Poland
in cooperation with Department of Electrical Engineering, State University of Malang and Indonesia and Informatics Department, Universitas Ahmad Dahlan, Yogyakarta, Indonesia,

Website URL of Call for Papers (if any):

Email & Contact Details:

rdeja@wsb.edu.pl