

# Message from the EDMA 2018 Workshop Chairs

Welcome to EDMA 2018, the International Workshop on Engineering Data- & Model-driven Applications in conjunction with the 4th IEEE International Conference on Data Science and Systems (DSS 2018).

EDMA 2018 provides authors with a forum for presentations, discussion and sharing of current challenges, knowledge, expertise and solutions regarding trends and technologies for the use of data and computational models for dealing with complexity in industrial, engineering, cyber-physical and related domains.

This International Workshop EDMA 2018 contributions from across engineering and data science researchers on data (knowledge discovery, machine learning, big data analytics) and model-based methods (e.g., phenomenological / engineering models of care, degradation and failure, reliability) deliver effective and efficient solutions to current challenges of handling complexity in real-world engineering and industrial applications.

We are proud and pleased to introduce to you the following research contributions:

*Using Big Data in the Chemicals Sector*, author Issam Wadi

*Intelligent Dynamic Honeypot Enabled by Dynamic Fuzzy Rule Interpolation*, authors Nitin Naik, Changjing Shang, Qiang Shen, Paul Jenkins

*Online Web Bot Detection Using a Sequential Classification Approach*, authors: Alberto Cabri, Grażyna Suchacka, Stefano Rovetta, Francesco Masulli

*Formal Modelling of a Cruise Control System Using Event-B and Rodin*, authors: Sorina-Nicoleta Predut, Felician Campean, Marian Gheorghe, Florentin Ipate

*A Revised Dendritic Cell Algorithm Using K-Means Clustering*, authors: Noe Elisa, Longzhi Yang, Yanpeng Qu, Fei Chao

*Robustness of Automotive SOTA: State-of-the-art in Uncertainty Modelling*, authors: Orla Murphy, Esmaeil Habib Zadeh, Felician Campean, Daniel Neagu

*Exploring Methods for Comparing Similarity of Dimensionally Inconsistent Multivariate Numerical Data*, authors: Natasha Micic, Daniel Neagu, Denis Torgunov, Felician Campean

We hope you will enjoy the presentations and invite you to provide feedback, exchange ideas, and enjoy EDMA 2018 and DSS 2018 events.

Professor Felician Campean, *University of Bradford, United Kingdom*

Professor Marian Gheorghe, *University of Bradford, United Kingdom*

Professor Daniel Neagu, *University of Bradford, United Kingdom*

Esmaeil Habib Zadeh, *University of Bradford, United Kingdom*

**EDMA 2018 Organising Chairs**

## Technical Committee

Professor Francesco Masulli, *University of Genoa, Italy*

Professor Gongde Guo, *Fujian Normal University, China*

Liping Chen, *Fujian Normal University, China*

Dr Jon Hall, *Open University, United Kingdom*

Dr Longzhi Yang, *Northumbria University, United Kingdom*

Dr Savas Konur, *University of Bradford, United Kingdom*

Dr Paul Trundle, *University of Bradford, United Kingdom*

Radu Calinescu, *University of Yorks, United Kingdom*  
Marian Craciun, *University of Galati, Romania*  
Gongde Guo, *Fujian Normal University, China*  
Florentin Ipate, *University of Bucharest, Romania*  
Vasile Palade, *Coventry University, United Kingdom*  
Sorina-Nicoleta Predut, *University of Bucharest, Romania*