EMENDER 2015 - Energy ManagemENt Data ElaboRation

1st International Workshop on Energy Management, Prediction and Big Data Elaboration

06.10.2015, Ljubljana, Slovenia

[EMENDER2015 webpage](#)

CALL FOR PAPERS

Description

The Organizing Committee of EMENDER2015 warmly invites you to attend the 1st International Workshop on Energy ManagemENt and Data ElaboRation during October, the 06th, 2015, in Ljubljana, Slovenia, Europe. The workshop is promoted by the European Project NRG4Cast – Energy Forecasting, co-funded by the European Commission's Seventh Framework Program for Research and Technological Development.

In the area of energy planning and optimisation there are limited solutions available that can be easily used by policy makers. Also, although a variety of solutions for the planning of energy efficient buildings exists, still the optimisation relies only on the expert decision. NRG4Cast advances the existing solutions in many ways: integrating statistical and advanced machine learning methods, knowledge extraction and knowledge formalisation and reasoning methods in a coherent context for rich decision support system. NRG4Cast project deals with mass amount of multimodal data in real-time. The outcomes of the above research activities it is time to be discussed within the scientific community of the energy sector.

Aims and scope

The aim of EMENDER2015 is to set up an international energy modelling community, in order to provide feasible solutions to decision makers for energy planning. The scope of the workshop encompasses environmental and economic constraints, energy projections, views on future energy developments and on sustainable energy, new trends in global energy production and consumption, energy monitoring systems.

Also, design methodologies and technologies implementation will be widely discussed, since the exponential increase in deployment of technologies creates new and critical energy consumption problems. Therefore, new architectures, technologies and systems are needed to make computing and networked system more energy efficient and sustainable.

Important dates

Paper submission deadline: 04/09/2015

Authors' notification: 18/09/2015

Camera ready due: 25/09/2015

Topics

The workshop will include a plenary session with presentation and discussion of accepted papers and a final round table on the key topic of the workshop.

Authors are invited to submit high-quality original papers with new and innovative results on scientific or practical experiences on the positive technologies for the energy domain. We welcome submissions describing theoretical advances as well as system design, implementation and experimentation. Relevant topics for the conference include, but are not limited to the following:

- **Energy Management & Efficiency Improvement**
    - Advances in monitoring and control of smart homes and buildings
    - Zero or low energy buildings
    - District heating & district cooling

- **Energy Monitoring**
    - Wide-area monitoring
    - Environmental monitoring
    - Critical infrastructures monitoring
    - Transportation systems monitoring
    - Electric Vehicle monitoring and control
    - Industrial monitoring systems

- **Technologies for Energy Monitoring and Control**
    - Sensing, monitoring, control, and management of energy systems
    - Modelling, control, and architectures for renewable energy generation resources
    - Sensors and instrumentation for monitoring systems
    - Energy-efficient computing and communication, including energy-efficient data centres
    - Modelling, management and control of variability and uncertainty in energy supply and demand
    - Distribution and transmission network control techniques
    - Novel technologies to enhance reliability and robustness of energy systems

- **Human Factors in Energy Technologies**
    - HCI for energy monitoring, management, and awareness
    - User studies and behavioural change enabled by computing and communication technologies
    - Quality of service in monitoring systems
    - Engineering education in monitoring systems
    - Intelligent monitoring systems

- **Energy Management, Policy and Economics**
    - Energy planning, monitoring and evaluations
    - Energy market, scenarios and forecasting, and energy security
    - Energy economics, finance and investment
    - Energy for developing countries

Award

The Organizing Committee will select the Best Paper submitted to EMENDER2015. Authors will be awarded with a Diploma and they will participate to the roundtable that will take place after paper discussion (the full event program will be published at [EMENDER2015 webpage](#)).

Submission of papers

The working language of the workshop is English. Papers are limited to 6 page papers (including authors' information, abstract, all tables, figures, references, etc.). The template can be downloaded here.
The manuscripts should be submitted either in .doc or in .rtf format using the following link.

Papers acceptance

All papers will be peer-reviewed by at least two reviewers. The workshop proceedings of EMENDER2015 will be published at website of Jozef Stefan Institute (JSI). The Jozef Stefan Institute is the leading Slovenian scientific research institute, covering a broad spectrum of basic and applied research. The staff of more than 960 specializes in natural sciences, life sciences and engineering. The subjects concern production and control technologies, communication and computer technologies, knowledge technologies, biotechnologies, new materials, environmental technologies, nanotechnologies, and nuclear engineering. The mission of the Jozef Stefan Institute is the accumulation - and dissemination - of knowledge at the frontiers of natural science and technology to the benefit of society at large through the pursuit of education, learning, research, and development of high technology at the highest international levels of excellence.

The final manuscript must be accompanied by a registration form (downloaded at EMENDER2015 webpage). Registration to EMENDER2015 is free of charge. The workshop attendees must arrange however their travel expenses.

No-show Policy

The EMENDER2015 Organizing Committee reserves the right to exclude a paper from the proceedings if the paper is not presented at the workshop.

Workshop Chair: Maja Škrjanc

The red thread of Maja's professional path are Data Mining (DM) methods and their impact in practice. She pursued this goal through her education and professional path. After her study at Faculty for Computer Science in Ljubljana she joined the Department for Intelligent Systems as a researcher at Jozef Stefan Institute (JSI). Maja's focus was on the research and development of various DM and text mining techniques. In 2003 she joined SAS Institute as Head of Analytics for Adriatic Region and focused on transferring advanced analytics into real business environments for large companies like Telecom Srbija, Zagrebacka banka, Privredna banka Zagreb, Rieffeisen, Erste bank, Konzum. In 2010 Maja returned to JSI to join Artificial Intelligence Laboratory as a senior researcher and project manager, were she is involved in various EU projects, including coordinating NRG4CAST project.

Organizing Committee

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