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CALL FOR PAPERS

We are pleased to invite you to participate at the *International Workshop on Computational Intelligence for Multimedia Understanding* devoted to advanced methods of biological data and signal processing organized 29-30 October 2015 in Prague, Czech Republic. Suggested topics will include, but are not limited to:

- Medical data mining, biosensors and multiframe signal acquisition
- Medical image segmentation and model-based representation
- Biological and medical knowledge representation and data processing
- Man-machine interaction, motion detection, recognition and modelling
- Statistical and Bayesian methods of biosignal processing
- Wavelet transforms and multidimensional signals analysis
- Computational intelligence in biomedicine
- Polysomnography and diagnosis of sleep disorders
- Optical coherence tomography and retinal imaging
- Data processing in rehabilitation and analysis of sport activities
- Integration of heterogeneous data sources in medicine and data fusion
- Multimedia labeling, semantic annotation
- Multimodal and cross-modal data analysis, clustering
- Big data, distributed digital libraries and decision support systems in medicine
- Multimodal indexing and searching in very large data-bases
- Remote patient monitoring and telemonitoring, eHealth, mHealth
- Digital signal processing and assistive technologies
- Text and speech recognition
- Microscopic image feature extraction and classification

The Conference will be based at the Strahov Monastery close to the Prague Castle, to combine the modern world of computers with the old historical background of the city. The social programme will include a choice of different cultural events including the concert of the Jazz band conducted by Václav Harmáček.

INVITED LECTURES

- » **Dr. Saeid Sanei**, Surrey University, UK: Man-machine Interaction and Motion Modelling
- » **Dr. Joan Lasenby**, University of Cambridge, UK: Applications of Dimensionality Reduction Techniques in Medical Data Analysis
- » **Prof. Danilo Mandic**, Imperial College, UK: Computational Intelligence and Wearable Bodysensor Networks
- » **Prof. Jonathon Chambers**, Newcastle University, UK: Digital Signal Processing and Assistive Technologies

SPECIAL SESSIONS

1. BIODAT (L. Lhotská)
2. BIG AND LINKED DATA (Raja Chiky)
3. DATA FUSION IN BIOMEDICINE (Homma Noriyasu, Martin Valis)
4. AMBIENT ASSISTED LIVING AND INTELLIGENT TOOLS FOR DISABILITY AND ELDERLY PEOPLE (Oana Geman, Iuliana Chiuchisan, Ioan Ungurean)

IMPORTANT DATES

Special Session Proposals:	16 June 2015
Full Paper Submission:	19 July 2015
Notification of Paper Acceptance:	31 August 2015
Submission of Publication-ready Papers:	22 September 2015
Authors Registration Deadline:	25 September 2015

Accepted papers will be published in IEEE Xplore. Further details on paper submission, invited lectures, registration, social events and accommodation are available at:

<http://iwcim.isep.fr/>

