NENT 2018 - Neuro-electrostimulation in Neurorehabilitation Tasks (ins) S

Date : Jan 19, 2018 - 09:00 AM

Event URL : http://www.sfbayeventslist.com/events/nent-2018-neuro-electrostimulation-in-neurorehabilitation-tasks-ins-s-jan-2018

Organizer : NYMT

Venue :

Location : Vila GalÃ© Santa Cruz Rua SÃ£o Fernando, 5 9100-173 Santa Cruz Portugal, Santa Cruz, Portugal, US, ZIP: 5 9100-173

Neuro-electrostimulation in Neurorehabilitation Tasks - NENT 2018

19 - 21 January, 2018 - Funchal, Madeira, Portugal

Within the 11th International Conference on Bio-inspired Systems and Signal Processing - BIOSIGNALS 2018

SCOPE

Among the leading causes of disability and high mortality are diseases of the central nervous system that are accompanied by cognitive, sensor, motor and autonomic disorders. For treatment of such diseases pharmacological methods are not always in conformity with the contemporary requirements of efficacy and safety of health care. New technologies for neuroprotection, based on application of the physical fields for formation of the neuromodulation processes in the brain structures, are promising. Participation in this Special Session of scientists, involved in development of several research directions of neurostimulation theory and techniques, will allow

to formulate new strategies of the treatment process, which will be aimed to minimize health risks for each person, based on personalized strategies of prevention and therapy.

TOPICS:

The potential topics of the special session include, but not limited to the following:
- Neurostimulation Medical Device design;
- Rehabilitation process monitoring;
- Neurostimulation for Restoring Active Memory;
- Biomedical signal analysis;
- Modeling of neurostimulation effects;
- Clinical studies.

IMPORTANT DATES

Paper Submission: November 7, 2017 (expired)
Authors Notification: November 21, 2017
Camera Ready and Registration: November 29, 2017

SPECIAL SESSION PROGRAM COMMITTEE

Tiágo Araújo, ., Portugal
Marcus Cheetham, University Hospital Zurich, Switzerland
Hugo Gamboa, New University of Lisbon, Portugal
Carla Quintão, FCT-UNL, Portugal

CHAIR

Vladimir Kublanov
Ural Federal University
Russian Federation

Brief Bio
Vladimir Kublanov is Prof., Dr. science, head of Research Medical and Biological Engineering Center of High Technologies. Has over 30 years of experience of the medical devices. Spheres of scientific interests: Fundamental studies for medicine and Engineering science.

SCOPE

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The purpose of the International Conference on Bio-inspired Systems and Signal Processing is to bring together researchers and practitioners from multiple areas of knowledge, including biology, medicine, engineering and other physical sciences, interested in studying and using models and techniques inspired from or applied to biological systems. A diversity of signal types can be found in this area, including image, audio and other biological sources of information. The analysis and use of these signals is a multidisciplinary area including signal processing, pattern recognition and computational intelligence techniques, amongst others.

BIOSIGNALS encourages authors to submit papers to one of the main topics indicated below, describing original work, including methods, techniques, advanced prototypes, applications, systems, tools or survey papers, reporting research results and/or indicating future directions. Accepted papers will be presented at the conference by one of the authors and published in the proceedings. Acceptance will be based on quality, relevance and originality. There will be both oral and poster sessions.
The proceedings will be indexed by several major international indexers.
Special sessions are also welcome. Please contact the secretariat for further information on how to propose a special session.

CONFERENCE TOPICS

Speech Recognition
Neural Networks
Biometrics
Pattern Recognition
Medical Signal Acquisition, Analysis and Processing
Wearable Sensors and Systems
Real-time Systems
Evolutionary Systems
Acoustic Signal Processing
Time and Frequency Response
Wavelet Transform
Medical Image Detection, Acquisition, Analysis and Processing
Physiological Processes and Bio-signal Modeling, Non-linear Dynamics
Cybernetics and User Interface Technologies
Electromagnetic fields in biology and medicine
Fuzzy Systems and Signals
Monitoring and Telemetry
Cardiovascular Signals
Image Analysis and Processing
Detection and Identification
Motion Control

BIOSTEC KEYNOTE SPEAKERS

Anatole Lécuyer, Inria Rennes/IRISA, Hybrid Research Team, France
Corina Sas, Lancaster University, United Kingdom
Dinesh Kumar, RMIT University, Australia
Maximiliano Romero, Università Iuav di Venezia, Italy

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