The first research works on neurotechnology can be dated back nearly half a century, but it is in the XXI century that most significant advances are being witnessed. Neurotechnology shows a very high potential of enhancing human activities, involving technologies such as neural rehabilitation, neural prosthesis, neuromodulation, neurosensing and diagnosis, and other combinations of neurological and biomedical knowledge with engineering technologies.

5th International Congress on Neurotechnology, Electronics and Informatics NEUROTECHNIX

Website: http://www.neurotechnix.org/

October 30 - 31, 2017 Funchal, Madeira, Portugal

In Cooperation with: Neurotech Network, IFCN and SPN
Co-organized by: UMA
Sponsored by: INSTICC
Logistics Partner: SCITEVENTS

IMPORTANT DATES:

Regular Paper Submission: September 4, 2017
Authors Notification (regular papers): July 24, 2017
Final Regular Paper Submission and Registration: September 8, 2017

Conference Topics:
Area 1: Neural Rehabilitation and Neuroprosthetics
- Applications to Complex Communication Needs
- Assistive Technologies
- Augmentative and Alternative Communication
- Biofeedback Therapy
- Brain/Neural Computer Interfaces
- Case Studies
- Clinical and Social Impact of Neurotechnology
- Mobile Technologies
- Outcome Measures
- Privacy, Security and Neuroethics
- Robotic Assisted Therapy
- Stimulation Systems
- Telerehabilitation
- Users’ Perception and Experience on Technologies
- Virtual Reality Tools

Area 2: Neuroinformatics and Neurocomputing
- (Artificial) Neural Networks
- Artificial Life
- Brain Models and Functions
- Cognitive Science and Psychology
- Information Processing
- Learning Systems and Memory
- Neurobiology
- Pattern Recognition
- Reverse Engineering the Brain
- Self-organization and Evolution
- Simulation Models

Area 3: Neuromodulation and Neural Engineering
- Biochips and Nanotechnology
- Bionic Vision
- Biotechnology
- Cochlear implants
- Cybernetics
- Deep Brain Stimulation
- Electrical Stimulation
- Functional Electrical Stimulation (FES)
- Neuro-interface Prosthetic Devices
- Optogenetics
- Transcranial Magnetic Stimulation

Area 4: Neuroimaging and Neurosensing
- Brain imaging
- Diagnostic Sensors
- EEG and EMG Signal Processing and Applications
- Electrical and Magnetic Recordings
- Intelligent Diagnosis Systems
- Magnetic Resonance Imaging
- Mobile and Embedded Devices
- Monitoring Systems and Techniques
- Neural Signal Processing
- Neuroimaging
- Optical Imaging Techniques
- Positron Emission Tomography
- Real Time Monitoring of Neuromuscular and Neural Activity
- Remote Neurosensing
- Sleep Analysis
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