

# **Special Session on**

## **Managing Learning Disabilities: Alternative IT Therapies (MLD-AIT'12)**

**Under the framework of the World Congress on Information  
and Communication Technologies (WICT 2012)**

**October 30 - November 2, 2012 in Trivandrum, India**

<http://www.mirlabs.net/wict12/>

### **Session Organizers**

**About Ella Hassanien, Egypt**

[Abo@egyptscience.net](mailto:Abo@egyptscience.net)

**Nashwa El-Bendary, Egypt**

[nashwa.elbendary@ieee.org](mailto:nashwa.elbendary@ieee.org)

**Salwani Mohd Daud, Malaysia**

[salwani@ic.utm.my](mailto:salwani@ic.utm.my)

### **Introduction**

Learning disability (LD) is an area including a number of discrete disorders, usually caused by an unknown factor, that negatively affect children's ability to learn in a typical manner by having learning difficulties. The unknown factor is the disorder that affects the brain's ability to receive and process information, which make it problematic for a person/child to learn as quickly or in the same way as someone who is not affected by a learning disability. People with a learning disability have trouble performing specific types of skills or completing tasks if left to figure things out by themselves or if taught in conventional ways.

A learning disability can be a life-long condition affecting many aspects of life including education and employment, family life, and daily routines. However, persons with learning disabilities can learn. Academic and IT supports and accommodations can help the learning process for people with different types of LDs.

The main goal of this session is to provide an opportunity for the researchers from academia and industry to meet and discuss the latest solutions, scientific results, and methods in the usage and applications of ICT for managing different learning disabilities. Topics of interest include, but are not limited to:

- Smart Classrooms
- Learning Technologies, Cognition, and BCI
- Dyslexia, ADHD, and Dyscalculia Management IT solutions
- Graphics and Multimedia LD materials
- Assistive Technology
- Collaborative Computing
- Multi-sensor HCI and BCI
- Speech and Language Processing
- Supportive, Adaptive, and Multimodal User Interfaces
- Intelligent User Interfaces
- Interactive Educational Environments
- Interactive Machine Learning based Learning Environments
- User Modelling & Personalization
- Ubiquitous and Context-Aware Computing
- 3D Human Computer Interaction

## **Paper Submission Guidelines**

Authors The authors are encouraged to submit full papers describing original, previously unpublished research results, not currently under review by another conference or journal, addressing state-of-the-art research and development in the area of applying IT for managing learning disabilities.

All accepted papers will be compiled in conference proceedings published by the IEEE. All submitted papers will be refereed by experts in the field based on the criteria of originality, significance, quality, and clarity. All papers accepted will be included in IEEE Xplore and indexed by Ei Compendex and ISTP. Like previous editions, all accepted papers presented at WICT 2012 will be selected and recommended for possible publication in Journal Special Issues and Edited Volumes (indexed by SCI, Ei Compendex, etc.).

## **Important Dates**

- Deadline for paper submission: ..... August 15<sup>th</sup>, 2012
- Notification of Acceptance: ..... September 15<sup>th</sup>, 2012
- Deadline for Camera-ready manuscript Submission: ... September 30<sup>th</sup>, 2012
- Registration Deadline: ..... September 30<sup>th</sup>, 2012