

# CONFERENCE: BRAIN-COMPUTER INTERFACE (BCI)

## Brain-Computer Communication: Towards Real World Applications

**Monday, March 12<sup>th</sup> 2018, at 11:00**

Chais Auditorium (CL05), Arazi-Ofer building  
IDC Campus, Kanfei Nesharim st., Herzliya

**Program:**

- 11:00 Gathering
- 11:30 Opening Remarks:  
Dean and Founder, Sammy Ofer School of Communications, IDC Herzliya, **Noam Lemelshtrich Latar**  
**Prof. Doron Friedman**, Director, The Advanced Reality Center, IDC Herzliya

**Session I: EEG-based BCI Research**

- 11:40 **Dr. Fabien Lotte**, Inria Bordeaux Sud-Ouest  
*Learning for Brain-Computer Interfaces & Brain-Computer Interfaces for Learning*
- 12:00 **Ori Tal**, IDC Herzliya  
*Deep Recurrent Networks for P300 Classification*
- 12:15 **Dr. Jeremie Mattout**, Inserm CRNL Lyon  
*Taking the Most Out of Single Trial Evoked Brain Responses: From Understanding to Applying*
- 12:35 **Prof. Miriam Reiner**, Technion  
*A Three Tier Model of Brain-Computer Interface for Rehabilitation: Integrating Motor Memory, Error Potentials and Robotic Arms*
- 12:50 **Jelena Mladenovic**, Inria Bordeaux, Inserm CRNL Lyon and IDC Herzliya  
*Taxonomy for Adaptive BCI: User and Task Modeling*
- 13:05 **Daniel Landau**, PhD Candidate, Aalto University Media Lab, Helsinki and IDC Herzliya  
*Moving Without Body: A BCI Dance Exploratory Study*
- 13:20 **Break**  
*Demonstration, EEG-controlled Drone*

**Session II: Beyond EEG**

- 14:05 **Prof. Beatrice de Gelder**, Tilburg University (Netherlands)  
*Neural Encoding of Body Movements Revealed by Feature Analysis of Computational and Behavioral Parameters, Perspectives and Applications*
- 14:25 **Ori Cohen**, IDC Herzliya and Bar-Ilan University  
*High Performance BCI Using the Missing Hand Representation in Long Term Amputees*
- 14:40 **Jonathan Giron**, IDC Herzliya and Bar-Ilan University  
*Thought-Controlled Molecular Machines in a Living Host*

**Session III: Industry**

- 14:55 **Shai Rishoni**, "Prize for Life"  
*I Need a BCI Now*
- 15:00 **Dr. Yotam Luz**, IDC Herzliya; Project BeSeeEye  
*A Communication Tool for the Disabled Based On Decoding of Forehead Bio-Signals*
- 15:15 **Aziz Kaddan**, Myndlift  
*Remote Neurofeedback for Cognitive Enhancement*
- 15:30 **Prof Nathan Intrator**, Sagol School of Neuroscience - Tel Aviv University and Neurosteer, LTD  
*BCI for Locked In and Coma Subjects*
- 15:45 **Break**
- 16:00 - 16:45

**Panel: BCI in the Real World: How and When?**

Moderator: **Prof. Doron Friedman**

Participants: **Dr. Fabien Lotte, Dr. Jeremie Mattout, Prof Nathan Intrator, Prof. Miriam Reiner**

The conference will be held in English

**For Registration >> <https://www.eventer.co.il/bci>**

