



Workshop



g.tec's Brain-Computer Interface Workshop for Control, Assessment and Rehabilitation

Time & Date: Tuesday October 30st , 10:00-16:00 PM

Location: Stevens Institute of Technology, Haydon Hall Lounge

About the workshop

Research groups all over the world are feverishly and successfully working on a direct connection between the human brain and a computer, a so-called Brain-Computer Interface (BCI). During this workshop, we will demonstrate the major concepts for BCI control. New trends like embodiment, coma assessment and communication, stroke rehabilitation, and invasive ECoG based systems will be explained. We will invite people from the auditorium to participate in the live demonstrations.

Speakers

Christoph Guger, PhD, g.tec medical engineering GmbH, Austria

Lucas Parra, City University of New York, USA

Nathan Crone, Johns Hopkins University, USA

Dr. Christoph Guger is the CEO of g.tec medical engineering GmbH and is coordinating EU Horizon 2020 research projects such as recoveriX, ComAware, ComAlert and RapidMaps. He is also involved in the Flagship project Graphene.

Dr. Lucas Parra is the head of the Parra Lab at the Biomedical Engineering department at City University in New York. He studied at LMU in Germany and is interested in the combination of EEG and transcranial electrical stimulation.

Dr. Nathan Crone is running ECoG BCI projects at the Johns Hopkins University in Baltimore and is involved in prosthesis control and mapping projects.



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Room: Haydon Hall Lounge

Workshop Schedule



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10:00 – 10:30	The most important concepts to realize a non-invasive/invasive brain-computer interface with current and future applications. Christoph Guger
10:30 – 11:00	ECoG based BCIs. Nathan Crone
11:00 – 11:30	EEG based BCIS and brain stimulation. Lucas Parra
11:30 - 12:00	Work at Steven's Institute
12:00-13:00	Lunch
13:00 – 16:00	Hands-on exercise with BCIs for communication, rehabilitation and assessment of brain functions.



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Registration Form



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Venue	
Date	
Name and Degree	
Institution/Affiliation	
Department	
Business Address	
City	ZIP Code
State	
Phone	
E-Mail (important for receiving the confirmation)	

Please fill in and send it back via fax 0043-7251-22240-39 or email to Christoph Guger: guger@gtec.at