



Lietuvos
neuromokslų
asociacija



VYTAUTO DIDŽIOJO
UNIVERSITETAS
MCMXXII



XI International Conference of Lithuanian Neuroscience Association BEHAVIOURAL MEDICINE AND NEUROPLASTICITY

Date: 29 November 2019

Venue: Vytautas Magnus University, Small Conference Hall (2nd floor), S. Daukanto st. 28, Kaunas, Lithuania

Organising Committee:

Prof. Osvaldas Rukšėnas (Vilnius University, Lithuania)

Prof. Saulius Šatkauskas (Vytautas Magnus University, Kaunas, Lithuania)

Prof. Aušra Saudargienė (Lithuanian University of Health Sciences, and Vytautas Magnus University, Kaunas, Lithuania)

Dr. Rima Naginienė (Lithuanian University of Health Sciences, Kaunas, Lithuania)

Prof. Vilmantė Borutaitė (Lithuanian University of Health Sciences, Kaunas, Lithuania)

Prof. Neringa Paužienė (Lithuanian University of Health Sciences, Kaunas, Lithuania)

Dr. Gytis Svirskis (Lithuanian University of Health Sciences, Kaunas, Lithuania)

Prof. Aleksandr Bulatov (Lithuanian University of Health Sciences, Kaunas, Lithuania)

Assoc. Prof. Ramunė Grikšienė (Vilnius University, Lithuania)

Dr. Inga Griškova-Bulanova (Vilnius University, Lithuania)

Dr. Aleksandras Pleskačiauskas (Vilnius University, Lithuania)



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UNIVERSITETAS
MCMXXII



LIETUVOS SVEIKATOS
MOKSLŲ UNIVERSITETAS

XI International Conference of Lithuanian Neuroscience Association BEHAVIOURAL MEDICINE AND NEUROPLASTICITY

29 November 2019

Vytautas Magnus University
Small Conference Hall (2nd floor), S. Daukanto st. 28, Kaunas, Lithuania

8.30-9.30	Registration. Coffee/Tea
9.30-9.40	Opening and welcome Prof. Osvaldas Rukšėnas, President of the Lithuanian Neuroscience Association Representatives from Vytautas Magnus University
	I session. Cognitive Neuroscience and Behavioural Medicine Chair – dr. Julius Burkauskas, Lithuanian University of Health Sciences, Palanga, Lithuania Co-chair – dr. Aistė Pranckevičienė, Lithuanian University of Health Sciences, Kaunas, Lithuania
9.40-10.15	Keynote lecture How Cognitive Behavioural Therapy Impacts the Activity of the Brain: Emergent Understandings from the Field of Neuroscience and Beyond Prof. Sarah Corrie, The Central London CBT Training Centre, Central and North West London NHS Foundation Trust; Middlesex University London, UK
10.15-10.40	The Intellect Structure of Ischemic Heart Disease Patients in the Middle and Late Adulthood Dr. Jurga Misiūnienė, Vytautas Magnus University, Kaunas, Lithuania
10.40-11.20	Coffee/Tea. Poster session
11.20-11.45	Changes of Cognitive Function in Cardiovascular and Stress Related Disorders Dr. Julius Burkauskas, Neuroscience Institute, Lithuanian University of Health Sciences, Palanga, Lithuania
11.45-12.10	Effectiveness of Biofeedback-Assisted Relaxation in Reducing Stress Among Students Dr. Gabija Jarašiūnaitė–Fedosejeva, Vytautas Magnus University, Kaunas, Lithuania
12.10-12.30	Introduction to Human Brain Tour Dr. Corrado Calì, King Abdullah University of Science and Technology, Thuwal, Saudi Arabia
12.30-14.00	Lunch. Poster session

14.00-14.20	Meeting of members of the Lithuanian Neuroscience Association
	II session. Neuroplasticity and Neurotechnologies Chair – prof. Saulius Šatkauskas, Vytautas Magnus University, Kaunas, Lithuania Co-chair – dr. Aušra Saudargienė, Lithuanian University of Health Sciences, Kaunas, Lithuania
14.20-14.55	Keynote lecture The Complex Nature of Seizure Genesis Prof. Premysl Jiruska, Charles University, Prague, Czechia
14.55-15.20	A Short Story about Working Memory – a Puzzle of Recent Theoretical, Computational and Experimental Advances Prof. Pawel Herman, Royal Institute of Technology, Stockholm, Sweden
15.20-16.00	Coffee/Tea. Poster session
16.00-16.25	Transcranial Direct Current Stimulation (tDCS) and Memory Enhancement Dr. Jovana Bjekic, University of Belgrade, Belgrade, Serbia
16.25-16.45	Post-sauna Residual Consequences on Brain Neural Network Arousal, Information Processing and Cognitive Performance Dr. Margarita Černych, Lithuanian Sports University, Kaunas, Lithuania
16.45-17.00	Concluding remarks, discussions, awards
17.30-19.00	Farewell Party

Satellite workshop, Poster's area

13.00-16.45	Live Demo: Virtual Reality Tour into the Human Brain Dr. Corrado Calì, King Abdullah University of Science and Technology, Thuwal, Saudi Arabia Daniya J.Boges, King Abdullah University of Science and Technology, Thuwal, Saudi Arabia Kalpane Kare, King Abdullah University of Science and Technology, Thuwal, Saudi Arabia
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Satellite workshop

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

Thursday November 28th, 2019, 10:30AM-4:00 PM

Location and venue:



Auditorium A009

Centre for the Advanced Pharmaceutical and Health
Technologies

Lithuanian University of Health Sciences

Sukileliu av. 13, Kaunas, Lithuania

Please note the number of places available for the Workshop is limited to 30, and registration to the Workshop is obligatory.

For registration and all questions concerning this workshop please contact Woosang Cho at: cho@gtec.at



Workshop



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

Time & Date: Monday November 28th, 10:30AM-4:00 PM

Location: Auditorium A009

*Centre for the Advanced Pharmaceutical and Health Technologies
Lithuanian University of Health Sciences
Sukileliu av. 13, Kaunas, Lithuania*

About the workshop

Research groups all over the world have been 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 major concepts in BCI systems, including types of sensors, signal processing, and applications. New trends like embodiment, coma assessment and communication, stroke rehabilitation, and invasive ECoG based systems will also be explained. We will invite people from the audience to participate in the live demonstrations in which they can don electrode caps and use BCIs.

Speakers

Milena Korostenskaja, PhD. leads the Functional Brain Mapping and Brain-Computer Interface Program at the Neuroscience Institute, AdventHealth Orlando. Currently, she is working closely with the Epilepsy Center at AdventHealth Orlando to help guide epilepsy surgery by creating individual functional brain maps for surgical candidates. Dr. Korostenskaja's main goal is to establish the Adaptive Neurotechnology Clinic, where the latest innovations in the field of brain-computer interfaces (BCIs) will be utilized to improve patient's diagnosis, treatment, and quality of life.

Woosang Cho, MSc from g.tec medical engineering GmbH was working on EEG and MEG based BCI projects in the University of Tübingen, Germany and at g.tec. Now he is involved in validating a ready-to-use BCI system and developing new methods for stroke rehabilitation. He will give a theoretical overview about BCIs and will also held the practical sessions.



Time & Date:

Thursday November 28th, 10:30AM-4:00 PM

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Workshop Schedule



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

10:30 – 11:15	Adaptive Neurotechnologies: Revolutionizing Treatments and Minds, Dr. Milena Korostenskaja
11:20 – 12:00	Non-invasive/invasive brain-computer interface systems, including current and future applications, Woosang Cho
12:00 – 13:00	Lunch break
13:00 – 13:50	Hand on sessions: BCI live experiments (Part I) – for motor rehabilitation and cognitive assessment
14:00 – 16:00	Hands on sessions: BCI live experiments (Part II) – for speller, sphero, and painting
16:00	Discussion and questions

For more information, please contact Woosang Cho: cho@gtec.at



Time & Date:

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Registration Form



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

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 Woosang Cho : cho@gtec.at