

Sunday, August 20, 2017

09:00 WELCOME

Opening session by the Program committee chairs and the Minister of Education in Malaysia.

09:20 SESSION 1: DATA STANDARDS AND REPRODUCIBILITY

09:20 KEYNOTE 1: *Variance is the spice of reproducible research*
Satrajit Ghosh, McGovern Institute for Brain Research at MIT, and the Department of Otolaryngology at Harvard Medical School, United States

09:50 *FHIR as an integrative platform for reproducible biomedical imaging research*
Hugo Leroux, The Australian E-Health Research Centre, Health and Biosecurity, CSIRO, Australia

10:10 KEYNOTE 2: *TBA*
Ferath Kherif, Lausanne University Hospital, Switzerland

10:40 COFFEE BREAK

11:10 SESSION 2: SCIENCE GATEWAYS AND REPRODUCIBLE COMPUTING

11:10 KEYNOTE: *Towards open and reproducible neuroscience in the age of big data*
Chris Gorgolewski, Stanford University, United States

11:40 *Reproducibility of Human Connectome Project pipelines across operating systems*
Lalet Scaria, Department of Computer Science and Software Engineering, Concordia University, Montreal, Canada

12:00 *Neuroscout: a cloud-based platform for flexible re-analysis of naturalistic fMRI datasets*
Alejandro de la Vega, Department of Psychology, University of Texas at Austin, United States

12:20 ROUNDTABLE DISCUSSIONS: SESSIONS 1 AND 2 SPEAKERS

13:00 LUNCH

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14:00 SESSION 3: INFORMATICS FOR BRAINMODELLING

14:00 KEYNOTE 1: *Bridging clinical and cognitive neuroscience with large-scale computational modeling.*

Randy McIntosh, University of Toronto, Canada

14:30 *In-memory compression for neuroscience applications: Blue-Brain Neuromapp Research & Implementation*

Devin Bayly, NSCS Department, University of Arizona, Tuscon, United States

14:50 KEYNOTE 2: *Open source tools and resources for collaborative modeling of brain function*

Angus Silver, University College London, United Kingdom

15:20 ROUNDTABLE DISCUSSIONS: SESSION 3 SPEAKERS

16:00 COFFEE BREAK

16:30 SESSION 4: NOVEL ANALYTICS FOR CLINICAL DATA

16:30 KEYNOTE 1: *The upside and downside of being highly connected in the brain*

Alex Fornito, Brain and Mental Health Laboratory, Monash Institute of Cognitive and Clinical Neuroscience, Monash University, Australia

17:00 *Utilization of neuroimaging data with cartesian coordinates to test the accuracy of surgical localisation and to propose new standard*

Liew Boon Seng, Neurosurgery, Hospital Sungai Buloh, Jalan Hospital, Malaysia

17:20 *Efficacy of 3D print technology registered to image guided system (IGS) as an educational tool among healthcare professionals*

Xinli You, Neurosurgery, Hospital Sungai Buloh, Sungai Buloh, Malaysia

17:40 ROUNDTABLE DISCUSSIONS: SESSION 4 SPEAKERS

18:20-20:00 POSTER SESSION AND RECEPTION

Monday, August 21, 2017

09:00 MALAYSIAN NODE PRESENTATION

09:20 SESSION 5: LARGE-SCALE DATABASING AND META SYSTEMS

09:20 KEYNOTE 1: TBA

Jessica Turner, Georgia State University, United States

09:50 *Automated Machine Learning-based diagnosis of impaired consciousness: cross-center and protocol generalization of EEG biomarkers.*

Federico Raimondo, Departamento de Computación, FCEyN, Universidad de Buenos Aires, Ciudad Universitaria, Instituto de Investigación en Ciencias de la Computación, CONICET – Universidad de Buenos Aires, Institut du Cerveau et de la Moelle épinière, Faculté de Médecine Pitié-Salpêtrière, UPMC Université Paris

10:10 KEYNOTE 2: Automated reconstruction of synaptic-resolution neural wiring diagrams using very large scale computation and machine learning.

Viren Jain, Google, Mountain View, United States

10:40 COFFEE BREAK

11:10 SESSION 6: MACHINE LEARNING AND DATA MINING

11:10 KEYNOTE: Mapping the neural substrates of behavior using computer vision

Kristin Branson, Howard Hughes Medical Institute
Janelia Farm

11:40 *Analytics of mental stress detection using EEG and ECG based on machine learning algorithm*

Ahmed Rauf Subhani, Centre for Intelligent Signal and Imaging Research, Department of Electrical and Electronic Engineering, Universiti Teknologi PETRONAS, Malaysia

12:00 *Classifications of fMRI data using deep learning approach*

Sheng Hung Chung, Centre for Research and Development in Learning, Nanyang Technological University, Singapore

12:20 ROUNDTABLE DISCUSSIONS: SESSIONS 5 AND 6 SPEAKERS

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13:00 **LUNCH**

14:00 **SESSION 7: COLLABORATIVE NEUROSCIENCE BUILDING TOOLS AND KNOWLEDGE TOOLS**

14:00 **KEYNOTE 1: *Making neuroscience FAIR***
Maryann Martone, University of California, United States

14:30 *Annotating the human connectome by semantic networks*
Markus Butz-Ostendorf, Biomax Informatics AG, Germany

14:50 **KEYNOTE 2: *Delivery open data, tools and knowledge on a timeline***
Lydia Ng, Allen Institute for Brain Sciences, United States

15:20 **COFFEE BREAK**

15:50 **KEYNOTE 3: *FAIR digital research assets: beyond the acronym***
Susanna Sansone, University of Oxford e-Research Centre,
United Kingdom

16:20 *RRIDs the identifiers for key materials*
Anita Bandrowski, CRBS, UCSD, United States

16.40 **ROUNDTABLE DISCUSSIONS: SESSION 7 SPEAKERS**

17.20 **CONGRESS 2018 PRESENTATION**

17:35 **CLOSING REMARKS**

17:50 **MALAYSIAN CULTURAL PRESENTATION**

18:20-20:00 **POSTER SESSION AND RECEPTION**