



The 14th International Conference
on Brain Informatics (BI 2021)

17 - 19 September 2021, Virtual Conference

Innovative Computational Approaches for Understanding Brain Functions and Treat its Disorders

14th International Conference on Brain Informatics (BI 2021)

Programme at-a-Glance

September 17-19, 2021

Virtual Conference

<https://www.bi2021.org/>

Supported by:



中国人工智能学会脑科学与人工智能专业委员会

CAAI Technical Committee on Brain Science and Artificial Intelligence (CAAI-TCBSAI)

All times are in **GMT+1 (UK Time)****Day 01: Friday, September 17, 2021**

Friday 17/09/2021 8:30 - 9:00 (GMT+1)	Opening of the Conference Chair: <i>Professor Ning Zhong, Maebashi Institute of Technology, Japan</i> Zoom link: https://us02web.zoom.us/j/85337349401
Friday 17/09/2021 9:00 - 10:00 (GMT+1)	Keynote 1 Chair: <i>Professor Ning Zhong, Maebashi Institute of Technology, Japan</i> Title: Toward a computational model of brains affected by stroke with an eye to their repair Speaker: <i>Professor Maurizio Corbetta, University of Padua, Italy</i> Zoom link: https://us02web.zoom.us/j/85337349401
Friday 17/09/2021 10:00 - 11:00 (GMT+1)	Keynote 2 Chair: <i>Professor Stefano Vassanelli, University of Padova, Italy</i> Title: Inferring neural circuit interactions and neuromodulation from field potentials and electroencephalogram measures Speaker: <i>Professor Stefano Panzeri, University Medical Center Hamburg-Eppendorf (UKE), Germany</i> Zoom link: https://us02web.zoom.us/j/85337349401
11:00-11:30	Morning networking break
Friday 17/09/2021 11:30 - 12:30 (GMT+1)	Keynote 3 Chair: <i>Professor Michele Giugliano, SISSA, Italy</i> Title: Neo-Hebbian three-factor rules of synaptic plasticity: from reward to surprise Speaker: <i>Professor Wulfram Gerstner, Swiss Federal Institute of Technology Lausanne, Switzerland</i> Zoom link: https://us02web.zoom.us/j/85337349401
Friday 17/09/2021 12:30 - 13:30 (GMT+1)	Keynote 4 Chair: <i>Professor Gopikrishna Deshpande, Auburn University, USA</i> Title: Tackle Grand Challenges in Brain Health with Artificial Intelligence Speaker: <i>Professor Tianzi Jiang, Institute of Automation, The Chinese Academy of Sciences Beijing, China</i> Zoom link: https://us02web.zoom.us/j/85337349401
13:30-14:00	Afternoon networking break

Friday 17/09/2021 14:00-15:30 (GMT+1)	Workshop 10: International Workshop on Application of AI Driven Tools Towards Inclusive and Personalised Education for Students with Learning Disabilities (AI-TOP) <i>Organizers:</i> David J Brown and Mufti Mahmud, Nottingham Trent University, UK; M Shamim Kaiser, Jahangirnagar University, Bangladesh; Karel Van Isacker, PhoenixKM BV, Kortemark, Belgium. <i>Zoom link:</i> https://us02web.zoom.us/j/85337349401
Friday 17/09/2021 14:00-16:00 (GMT+1)	Workshop 04: Workshop on Cutting Edge Technologies for Human-Computer Interaction (CET-HCI) <i>Organizers:</i> Paolo Mengoni, Hong Kong Baptist University, Hong Kong; Kristen Li, Hong Kong Baptist University, Hong Kong; Sanghyuk Lee, Xi'an Jiaotong-Liverpool University, China & Haolan Zhang, Zhejiang University, China Paper ID: S04201, S04202, S04203, S04204, S04205, S04206, S04207, S04208 <i>Zoom link:</i> https://hkbu.zoom.us/j/97798039259
Friday 17/09/2021 14:00-16:00 (GMT+1)	Workshop 05: The 2nd International Workshop on Computational Neuroaesthetics (IWCN 2021) <i>Organizer:</i> Junsong Zhang, Xiamen University, China <i>Zoom link (click to join):</i> https://zoom.us/j/8487240759
Friday 17/09/2021 14:00-15:30 (GMT+1)	Workshop 06: International Workshop on Computational Intelligence in Healthcare (IWCIH 2021) <i>Organizers:</i> Tianhua Chen, University of Huddersfield, UK; Pan Su, North China Electric Power University, China; Archie Khuman, De Montfort University, UK; Lu Chen, Shanxi University, China Paper ID: S06201 <i>Team Meeting Link (click to join):</i> https://teams.microsoft.com/l/meetup-join/
Friday 17/09/2021 14:00-16:00 (GMT+1)	Workshop 09: International Workshop on Internet Adaption and Mental Health (IAMH 2021) <i>Organizer:</i> Yang Yang, Beijing Forestry University, China Paper ID: S09201, S09203, S09204, S09205, S09206, S09207 <i>Tencent Meeting ID :</i> 282 665 612
Friday 17/09/2021 14:00-16:00 (GMT+1)	Special Session 02: Special Session on Imaging the young minds (IYM) <i>Organizer:</i> Zhi Yang, Shanghai Jiao Tong University School of Medicine, China & Shaozheng Qin, Beijing Normal University, China <i>Tencent Meeting Link:</i> https://meeting.tencent.com/dm/GZAGhFGpqMis?rs=25
Friday 17/09/2021 14:00-16:00 (GMT+1)	Special Session 03: Special Session on New Methods and Technology in the Brain Imaging (NMTBI) <i>Organizer:</i> Zhenghui Hu, College of Science, Zhejiang University of Technology, China <i>Tencent Meeting ID :</i> 803 749 768

All times are in **GMT+1 (UK Time)**

Day 02: Saturday, September 18, 2021

Saturday
18/09/2021
9:00-10:00
(GMT+1)

Keynote 5
Chair: *Professor Carlo Morabito, Mediterranea University of Reggio Calabria, Italy*
Title: **Brain-Inspired Brain Informatics: Methods, Systems, Applications**
Speaker: *Professor Nikola Kasabov, Auckland University of Technology, NZ*
George Moore Chair/Professor, University of Ulster, UK

Zoom link: <https://us02web.zoom.us/j/83326668770>

Saturday
18/09/2021
10:00-11:00
(GMT+1)

Keynote 6
Chair: *Professor Xiaohui Tao, University of Southern Queensland, Australia*
Title: **Quantitative Assessment Essential Tremor Based on Machine Learning Methods Using Wearable Device**
Speaker: *Professor Xinguang Yu, Chinese PLA General Hospital and Nankai University School of Medicine.*
Director of Institute of Neurosurgery in Chinese PLA General Hospital Beijing, China

Zoom link: <https://us02web.zoom.us/j/83326668770>

11:00-11:30 **Morning networking break**

Saturday
18/09/2021
11:30-12:30
(GMT+1)

Keynote 7
Chair: *Professor Marco Zorzi, University of Padova, Italy*
Title: **From areas and networks to individual predictions**
Speaker: *Professor Simon B. Eickhoff, Director, Institute of Systems Neurosciences Heinrich Heine University Düsseldorf, Germany*

Zoom link: <https://us02web.zoom.us/j/83326668770>

Saturday
18/09/2021
12:30-13:30
(GMT+1)

Keynote 8
Chair: *Professor Michela Chiappalone, University of Genoa, Italy*
Title: **Mapping and analyzing the circuit architecture of Mammalian brains at the Mesoscopic scale**
Speaker: *Professor Partha P. Mitra, Crick-Clay Professor of Biomathematics at Cold Spring Harbor Laboratory, USA and H.N. Mahabala Distinguished Chair in Computational Brain Research at IIT Madras, India*

Zoom link: <https://us02web.zoom.us/j/83326668770>

13:30-14:00 **Early afternoon networking break**

Saturday 18/09/2021 14:00-16:00 (GMT+1)	Workshop 08: The 5th International Workshop on Emotion Recognition (EMORE 2021) Organizers: Valentina Franzoni, Perugia University, Italy; Alfredo Milani, Perugia University, Italy; & Giulio Biondi, Florence University, Italy Paper ID: S08202, S08203, S08204, S08205, S08206 <i>Zoom Link:</i> https://bdren.zoom.us/j/67113545114
Saturday 18/09/2021 14:00-16:00 (GMT+1)	Workshop 07: The 2nd International Workshop on Computational Brain Image Analysis and Genomics (CBIAG 2021) Organizers: Shijie Zhao, Northwestern Polytechnical University, China; Tuo Zhang, Northwestern Polytechnical University, China; Lei Du, Northwestern Polytechnical University, China; Xintao Hu, Northwestern Polytechnical University, China Paper ID: S07001 <i>Tencent meeting link:</i> https://meeting.tencent.com/dm/Ejpkcy8wnsxt?rs=25
Saturday 18/09/2021 14:00-16:00 (GMT+1)	Workshop 11: The 2021 Workshop on Web Intelligence meets Brain Informatics (WImBI) Organizers: Jianhui Chen, Jiajin Huang, Beijing University of Technology, China. Workshop 02: The 3rd International Workshop on Computationally Intelligent Methods in Processing and Analysis of Neuronal Big Data (CIMPANBD) Organizers: Mufti Mahmud, Nottingham Trent University, UK and M. Shamim Kaiser, Jahangirnagar University, Bangladesh <i>Tencent Meeting ID:</i> 261 927 432
Saturday 18/09/2021 14:00-16:00 (GMT+1)	Special Session 01: Special Session on Explainable Artificial Intelligence for Unveiling the Brain: From the Black-Box to the Glass-Box (XAIB) Organizer: Alessia Sarica, Assistant Professor, Neuroscience Research Center, Magna Graecia University of Catanzaro, Italy Paper ID: S10201 <i>Google Meet Link:</i> https://meet.google.com/trf-nkxv-wgf

All times are in **GMT+1 (UK Time)****Day 3 - September 19, 2021**

Sunday
19/09/2021
01:30-04:30
(GMT+1)

Workshop 01: The 3rd International Workshop on Cognitive Neuroscience of Thinking and Reasoning (CNTR 2021)
Organizer: Peipeng Liang, School of Psychology, Capital Normal University, China & Antao Chen, Faculty of Psychology, Southwest University, China

Paper ID: S01201

Tencent Meeting ID: 135 155 930

Sunday
19/09/2021
9:00 - 11:30
(GMT+1)

Parallel Technical Session 01**Chairs:**

Professor Seif Eldawlatly, Ain Shams University, Egypt

Professor Mohammad Shahadat Hossain, University of Chittagong, Bangladesh

Track 1: Cognitive and Computational Foundations of Brain Science

Paper ID: B201, B206, B208, B209, B211, B212, B214, B219, B226, B241

Zoom link: <https://us02web.zoom.us/j/82459364464>

Parallel Technical Session 02**Chairs:**

Dr Yang Yang, Beijing Forestry University, China

Dr Alberto Testolin, University of Padova, Italy

Track 2: Investigations of Human Information Processing Systems

Paper ID: B220, B204, B261, B245, B264, B262, B202, B205, B221, B240

Zoom link: <https://bdren.zoom.us/j/67113545114>

Parallel Technical Session 03**Chairs:**

Dr Marzia Hoque Tania, University of Oxford, UK

Dr Vicky Yamamoto, Keck School of Medicine of USC, USA

Track 3: Brain Big Data Analytics, Curation and Management

Paper ID: B216, B222, B223, B224, B228, B229, B231, B238, B242

Zoom link: <https://bdren.zoom.us/j/66806650933>

Parallel Technical Session 04**Chairs:**

Professor Kanad Ray, Amity University Jaipur, India

Dr Avinash Kumar Singh, University of Technology Sydney, Australia

Track 4: Informatics Paradigms for Brain and Mental Health Research

Paper ID: B203, B225, B232, B233, B234, B239, B246, B243, B263, B260

Zoom link: <https://bdren.zoom.us/j/64179422046>

Parallel Technical Session 05

Chair:

Professor Krishna Prasad Miyapuram, IIT Gandhinagar, India

Dr Trent Lewis, Flinders University, Australia

Track 5: Brain-Machine Intelligence and Brain-Inspired Computing

Paper ID: B217, B218, B227, B235, B244, B210, B230, B236, B207

Zoom link: <https://bdren.zoom.us/j/62660409670>

Sunday
19/09/2021
11:30-12:30
(GMT+1)

Closing Ceremony + Awards + Next BI 2022 Announcement

Chair: Professor Ning Zhong, Maebashi Institute of Technology, Japan

Zoom link: <https://us02web.zoom.us/j/82459364464>

