



INTERNATIONAL WORKSHOP ON INNOVATIONS AND TRENDS IN BRAIN COMPUTING TECHNIQUES

25 - 29 April 2022



Organized by

Centre for Excellence in Brain Computing



Kerala University of Digital Sciences, Innovation and Technology

About the Programme



Centre for Excellence in Brain Computing (CEBC), Kerala University of Digital Sciences, Innovation & Technology is organising a 5-day International workshop on Innovations & Trends in Brain Computing techniques. The programme aims to bring professionals, researchers, scientists, faculty members, students and experts together on a single platform to discuss innovative ideas on brain computing in multiple disciplines. Brain computing has emerged as a powerful learning mechanism for developing intelligent systems as it facilitates natural understanding for contemporary problems. Pattern Recognition, Machine Learning, Computational Intelligence, Visual Understanding, Natural Language Processing, Emotion Recognition, Speech Recognition, Metaverse etc. are upgrading with the essence of Natural Intelligence. The objective of the workshop is to equip participants to innovate brain computing techniques and its application in Computational Perspective.

Kerala University of Digital Sciences, Innovation and Technology

Kerala University of Digital Sciences, Innovation and Technology (Digital University of Kerala) was established in 2020 by the Government of Kerala by upgrading the Indian Institute of Information Technology and Management-Kerala (IIITM-K). It is a non-affiliating research and postgraduate teaching university in the state of Kerala to facilitate and promote studies, research, incubation and extension work in digital technologies and its application domains in science, engineering and humanities.

For more info: https://duk.ac.in/

Centre for Excellence in Brain Computing

The centre aims to contribute in brain science research and develop Intelligent Digital Systems by analysing the human brain activity through brain computer interfaces and state-of-the-art AI Technologies. CEBC conducts research, training and developments focusing more on Machine Learning, Image Processing, Pattern Recognition, Natural Language Processing etc. to solve real life problems. The recent work carried out in CEBC include the diagnosis of Neurodegenerative diseases, Algorithm and Connectome design, Saliency, Linguistics, Speech Recognition and many more. The centre is open for more collaboration and joint research in these areas.

Topics covered in the workshop



Explainable AI systems	Brain computing techniques	Biological intelligence	Cognition in Metaverse
Brain imaging technologies in BCI	Brain source Localization	Brain physiology and brain mapping	Challenges and opportunities of brain computing
Pattern recognition & analysis	Human attention- Neurological and psychological perspective	Neural correlation using eye tracking	Cognitive vigilance assessment and enhancement

Resource Persons

Dr. Jitendran Muthuswamy	Dr. C. Kesavadas	Prof. Hasan Al Nashash	Prof. Achuthsankar S Nair
Arizona State University	SCTIMST, Trivandrum	American University of Sharjah	University of Kerala
Prof. Tapan Gandhi	Prof. Lalan Kumar	Prof. Alex Pappachen James	Dr. Arun Sasidharan
IIT Delhi	IIT Delhi	Digital University of Kerala	NIMHANS
Dr. Gisi Shibu	Dr. Sujesh Sreedharan	Dr. Pragathi P. Balasubramani	Dr. Priyanka Srivastava
S P Fort Hospital	SCTIMST, Trivandrum	IIT Kanpur	University of Allahabad
Mr. Robin Tommy TCS R&I	Prof. Elizabeth Sherly Digital University of Kerd	ala	

Who can Participate?

The programme is specially designed for Academicians, Researchers, Scientists, Students, Faculty members and Professionals from IT industry.

Important Dates

Last date of Registration: 20th April 2022

Date of Commencement of Workshop: 25th April 2022

Accommodation

*A limited number of seats are available for the participants @DUK hostel.

Workshop Fee

Student/Research Scholar: Rs 3000+GST

Faculty/Academician : **Rs 5000+GST** Professional/Scientist : **Rs 7000+GST**

- CSI/IEEE Members will get 20% discount on registration fee.
- To encourage women participation, 75% discount on registration fee is offered to the first 20 women research scholars who register

Address for Communication

The Convenor, Cognizance'22 International workshop on Innovations and Trends in Brain Computing Techniques

Centre for Excellence in Brain Computing Kerala University of Digital Sciences, Innovation and Technology

Technocity Campus, Mangalapuram Thonnakkal P.O Thiruvananthapuram, Kerala, India 695 317

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Formerly Indian Institute of Information Technology and Management- Kerala (IIITM-K)

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Strong industry-academia linkages (Maker Village, Kerala Blockchain Academy, thingQbator, Graphene Centre, Centre for Digital Innovation, Product Development etc.)



State-of-the-art, verdant campus with advanced lab facilities



Strategic location at Technocity (Technopark- Phase IV), Thiruvananthapuram - one of the largest IT parks in the country



Internship and placement opportunities in leading companies



Centres of Excellence in cutting edge technologies



International curriculum and globally recognised faculty



Scholarships for top performing, deserving students



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AICTE APPROVED COURSES



MTech in COMPUTER SCIENCE AND ENGINEERING

Connected Systems and Intelligence Artificial Intelligence Cyber Security Engineering

MTech in ELECTRONICS ENGINEERING

Artificial Intelligence Hardware Signal Processing and Automation Artificial Intelligence Robotics Computational Imaging

MTech in ELECTRONIC PRODUCT DESIGN (Flexible mode)

MSc in COMPUTER SCIENCE

Machine Intelligence Cyber Security Software Systems Engineering Speech & Language Processing Distributed Systems & Blockchain Technologies Data Analytics **Geospatial Analytics**

MSc in ELECTRONICS

Intelligent Systems and Imaging IoT and Robotics VLSI Design and Artificial Intelligence

MSc in DATA ANALYTICS

Data Analytics & Geoinformatics Data Analytics & Bio Al Data Analytics & Computational Science

MSc in ECOLOGY

Ecological Informatics

MASTER OF BUSINESS ADMINISTRATION

Business Analytics Digital Governance Digital Transformation Finance

Human Resources Information Security Management

Marketing

Operations Systems

POST GRADUATE DIPLOMA

Technology Management

e-Governance

Deadline for submission of Applications for DUK Admissions:

1st May 2022

