



Faculty Of Engineering

Mawlana Bhashani Science and Technology University, Dhaka, Bangladesh.

17-18 December, 2022

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About TCCE 2022

"TCCE" is the combination of Trends on Computational and Cognitive Engineering. It works with the empirical, experimental, theoretical and application aspects of various innovations in computational and cognitive engineering. TCCE Conference was held at first time in the school of engineering and technology (SoET) and Department of Mathematics under school of Physical and Mathematical Science (SoPm) of Central University of Haryana (CUH), Mahendragarh, India during November 28-30, 2019 and at Second time in the Department of Institute of Information Technology (IIT), Jahangirnagar University (JU), Dhaka, Bangladesh during 17-18 December, 2020. Now, at 3rd time TCCE-2022 will be held in the Faculty Of Engineering, Mawlana Bhashani Science and Technology University (MBSTU), Tangail-1902, Bangladesh during 17-18 December, 2022. TCCE offers various opportunity to researchers, scholars, experts, specialists from academia and industry working in the following areas of basic and applied sciences, engineering and technologies to share their research findings.

Track 1: Artificial Intelligence and Soft Computing

- Adaptive Systems
- Fuzzy Logic
- Data Mining
- Shallow Machine Learning
- Deep Learning
- Bayesian Learning
- Hybrid intelligence System
- Inductive Learning
- Intelligent and Knowledge Based System
- Intrusion Detection
- Agents and Multi-agent Systems
- Natural Language Processing
- Hybrid and Nonlinear system
- Brain/Bio Inspired Algorithm
- Context-aware Pervasive Systems
- Quantum Computing
- Robotics

Track 2: Cognitive Science and Computational Biology

- Cognitive Psychology
- Neuroscience
- Bio/Brain-informatics
- Health-informatics

Track 3: IoT and Data Analytics

- Ecosystem & Infrastructure,
- Internet of Services
- Sensor based technology
- Cyber-physical Systems
- Data mining and Information Retrieval
- Robotic and Automation
- Mobile Computing
- Cluster Computing
- Cloud Computing for Industry 4.0
- Big Data Analytics
- IoT for Smart Applications
- IoHT

Track 4: Network and Security

- Cross-layer Optimization and Control
- Cyber-physical Systems
- Data Center Networking

- Delay Tolerant Networks
- Game Theory in Networks
- Quality of Service and Resource Management
- Localization and Location-based Services
- Mobile Cloud Computing
- Network Management

- Network Measurement and Analysis
- Smart Communications Systems
- Vehicular Networks
- Wireless Sensor Networks
- Green Networking Block Chain
- Cyber Physical System
- Ubiquitous Network
- Antenna and Wave Propagation
- Microwave and Optical Resonators

Track 5: Signal Processing, Computer Vision & Rhythm Engineering

- Computer Vision
- Robotics and Automation
- ML for Computer Vision
- Virtual and Augmented
- Signal Processing
- cyclic and rhythmic oscillations
- AI based Signal Timing Technology

Objectives of the Conference

With increasing complex situations being modeled to find reasonable answers, the role of computations and cognitive learning is becoming very important. The objective of the conference is to narrow down the gaps by bringing practitioners and scientists together; so as to focus on the recent trends in computational and cognitive engineering. The conference will further help:

- To provide a forum for the exchange of ideas and insights by mathematicians, engineers, scientists, and researchers
- To share a fresh perspective on problem-solving in current research areas
- To present various computational and cognitive modeling approaches in the areas of health, education, finance, environment, engineering, commerce, and industry
- To promote networking opportunities among experts in various disciplines and encourage interdisciplinary research

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Projects Workshop Special Session

Submission due: 30 Aug 2022

Organizer



Faculty of Engineering
Mawlana Bhashani Science and Technology University

Publication



Proceeding
(Pending)

Extended version will be submitted to Journals

Support Partner

