



3RD EMERGENT CONVERGING TECHNOLOGIES AND BIOMEDICAL SYSTEMS

(ETBS 2023)

Organized by the

Department of Electronics & Communication Engineering

and

**Department of Computer Sciences and Engineering & Information
Technology,**

Jaypee University of Information Technology

in collaboration with

DST iHub – AWaDH and Indian Institute of Technology Ropar

May 15-17, 2023

3rd Emergent Converging Technologies and Biomedical Systems (ETBS 2023) will be organized by Jaypee University of Information Technology, Waknaghat, India in collaboration with IIT Ropar. The aim of the ETBS is to serve for researchers, developers, educators working in the area of signal processing, computing, control and their applications to present and future work as well as to exchange research ideas. 2023 ETBS invites authors to submit their original and unpublished work that demonstrates current research in all areas of signal processing, computing, control and their applications.

ETBS 2023 solicits Full length original and unpublished papers, based on theoretical and experimental contributions, related, but not limited to the following tracks, are solicited for presentation and publication in the conference:

Track 1 : Engineering in Medicine and Biology

Biomedical and Health Informatics (BHI), Biomedical Imaging and Image Processing (BIIP), Computational Biology and the Physiome (CBP), Wearable Biomedical Sensors and Systems (WBSS), Therapeutic Systems and Technologies (TST), Bionanotechnology and BioMEMS (BNM), Translational Engineering and Healthcare Innovation (TEHI), Tele-working Technologies, Social Health extraction from Social media and networks, AI in Human Machine interaction, Artificial Intelligence Algorithms, Fuzzy and Neural Systems, Artificial Intelligence Tools and Applications, Pattern Recognition, Parallel Processing, Soft Computing Techniques. Changing software, Architectural Paradigms, Reconfigurable Architectures.

Track 2: Signal Processing and Communication

Image and Video Processing, Deep learning, Neural Networks, Meta heuristic algorithms, Machine Learning, Human Computer Interface, Machine Learning Optimization, Audio and Acoustic Signal Processing, Multimedia Signal Processing, Signal Processing Education, Design and Implementation of Signal Processing Systems, Image and Video Processing, Signal Processing for Communications and Networking, Adaptive Signal Processing. Biomedical Signal Analysis, Biomedical Modelling and Informatics, Biomedical imaging, Bio medical Instrumentation, Biomedical Devices, Bio Sensors, Bio Materials & Applications. Bio Electronics, Bioinformatics, Real Time Systems, Robotics, Artificial & Augmented intelligence and their applications, Biometrics & RFID, Computational Intelligence, RF, Microwave, Millimeter wave: Theory and Techniques, Signal & Image Processing, Image / Video / Multimedia Signal Processing, Audio / Speech / Spoken Language Processing, Digital & Multirate Signal Processing, Image Compression, Computational Social Science & Social Networks, Artificial & Augmented intelligence and their applications, Biometrics & RFID, Computational Intelligence, Deep Learning, Big Data Analysis

Track 3: Emerging Smart Computing Technologies:

Deep Learning, Big Data Analysis, Machine Learning for Signal Processing, Vision and Animation Software and Database System, Multimedia Engineering Networks, Cyber Security, Cloud, & Grid Computing. Computational and Statistical Methods, Motion and Video Analysis, Sensors, Imaging model and Simulation, Stereo Vision, 3D Shape and Structure Analysis, 3D Modeling and Visualization, Computational Photography and Video, Robotics, Robot Vision, Imaging Informatics for Healthcare, Document Image Processing, Image and Video Processing Architecture, Bio-Medical Imaging, Color Image Processing, Content Based Image Retrieval, Artificial Intelligence and Machine Learning, Data Mining and Text mining, Big Data Analytics and Metrics, Cloud Computing, Mobile Computing, Natural Language Processing and Machine Translation, Parallel and Distributed Algorithms, Pattern Recognition and Analysis.

Track 4 : Internet of Things for emerging Engineering Applications: IoT, RFID, Sensor Networks, Sensors, IoT of Smart Grid, IoT Protocol, Process monitoring / Automation, Automotive Applications, IoT Security, Industry 4.0, Sensor Technology, Healthcare, Energy Management, M2M

Communication, Smart metering, IoT in E-Agriculture, Systems and Services Integration, Smart City, IoT Applications, Internet of things in agriculture, Agricultural internet of things technology, Strategic IoT solutions for smart agriculture, Internet of things ecosystem, Water supply management, Precision agriculture Integrated pest management or control, Food production and safety, Industrial Internet of Things, Maritime Internet of Things, Embedded systems, digital twin technology, Home Automation, Instructing Solar Panels, Construction Management, Workers' safety, Decision Making, Wearable devices, Faster Disease Diagnosis, Superlative Care, Smart Metering, Smart Grid,.

Track 5: Next Generation Computational Technologies: High Performance Computing, Quantum Computing, Neuromorphic Computing, Biocomputing, Nanocomputing, Brain Computer Interface, Distributed computing, Wireless Communication, Ubiquitous & Sensor Network, Information & Network Security, Cloud and Distributed Application Security, Industry 4.0, AI, Deep Learning, Big Data, Search Engine, e-Learning, e-Health, Distributed & Cloud Computing, Remote Computing Architecture, Future Network, Information Centric Network, Software-defined networking and network virtualization, Machine learning and networking, Big data/Cloud computing and networks.

The proposals for the Special Sessions may be sent at conference mail id etbs2023@juitsolan.in with all necessary details.

Paper Submission

Authors are invited to submit full papers in English of not more than **14 pages (including figures, tables & references) in Springer format**. If the number of pages exceed, the authors from India have to pay **Rs. 500 per page and foreign authors USD 50 per page**. Submissions must present original work that has not been previously published, and is not under submission elsewhere. All articles will be reviewed for scientific quality by the Technical Program Committee and external reviewers.

Papers must be strictly submitted electronically (in .doc, .docx, .pdf) through email on etbs2023@juitsolan.in

Review Process, Publication and Indexing

Review process will be **Double-blind**. Each submitted paper will be assigned to **three independent reviewers** on the basis of their area of expertise. The papers will be evaluated for following criteria:

- a. Originality of the research
- b. Suitability of the topic for the Conference
- c. Technical quality of the paper
- d. Usage of proper methodology
- e. State of the art research
- f. Language clarity

However, the following are **unacceptable** in any circumstances:

- (1) Duplicate publication of an entire article;
- (2) Major plagiarism of the work of others (turnitinplag check > 15%);
- (3) Plag report from turnitin with overall plag < 15% and < 5% from one source.

(4) Review papers which reproduce substantial amounts of the texts discussed.

Important Dates

Submission of Full Length Paper	31 st March, 2023
Paper Acceptance Notification	15 th April, 2023
Submission of Final Version of Paper	20 th April, 2023
Registration Deadline (Early Bird)	25 th April, 2023
Registration Deadline (Late)	30 th April, 2023

REGISTRATION

The registered author must present the paper in the conference for getting the paper to be published. Otherwise your paper will be removed from the conference proceedings.

		Early Bird on or before 25 th April, 2023	After 25 th April, 2023
Indian Authors & Delegates (in INR)			
Authors	Full Time Students*	4,500.00	5,000.00
	Teachers/ Research Scholars	5,000.00	5,500.00
	Industry	5,500.00	6,500.00
Delegate	Student / Research Scholar	1,000.00	1,500.00
	Academician /Industry	1,500.00	2,000.00
Foreign Authors & Delegates (in USD \$)			
Authors	Full Time Students*	200	250
	Teachers/ Research Scholars	250	300
	Industry	300	350

* For extra pages, Indian author Rs. 500 per page and foreign author USD 50 per page.