



# Jaypee University of Information Technology

## Department of Electronics & Communication Engineering & Department of Physics and Material Sciences

### **2<sup>ND</sup> EMERGENT CONVERGING TECHNOLOGIES AND BIOMEDICAL SYSTEMS (ETBS 2022)**

*23<sup>rd</sup> -24<sup>th</sup> September 2022*

2nd Emergent Converging Technologies and Biomedical Systems (ETBS 2022) will be organized by Jaypee University of Information Technology, Waknaghat, India. 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present and future work as well as to exchange research ideas. 2022 ETBS invites authors to submit their original and unpublished work that demonstrates current research in all areas of signal processing, computing, control and their applications.

ETBS 2022 solicits Full length original and unpublished papers, based on theoretical and experimental contributions, related, but not limited to the following tracks, are solicited for presentation and publication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: Soft 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.

## **Track 4: Theme Based Special Sessions**

The ETBS 2022 team plans to hold special sessions on various areas of expertise. Special session proposals are invited related to broad area of ETBS 2022 or theme of the conference. **Proposal submitter must have expertise in the proposed area.** The proposals will be judged by the ability to bring together the key researchers in the state-of-the-art area, further development of the area, and help in establishing a larger research community beyond the area.

The organizer(s) of the special session will be the resource person motivating researcher(s) to submit papers to the special session. **All papers submitted will go through the regular process of submission and review.** All the papers are to be presented to be included in the proceedings.

The proposals for the Special Sessions may be sent at conference mail id [etbs2022@juitsolan.in](mailto:etbs2022@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 [etbs2022@juitsolan.in](mailto:etbs2022@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 ( edas plag check > 15%);
- (3) Plag report from edas with overall plag < 15% and <5% from one source.
- (4) Review papers which reproduce substantial amounts of the texts discussed.

### ***Important Dates***

<b>Submission of Full Length Paper</b>	17 <sup>th</sup> August , 2022
<b>Paper Acceptance Notification</b>	10 <sup>th</sup> September, 2022

<b>Submission of Final Version of Paper</b>	15 <sup>th</sup> September, 2022
<b>Registration Deadline (Early Bird)</b>	15 <sup>th</sup> September, 2022
<b>Registration Deadline (Late)</b>	20 <sup>th</sup> September, 2022

### **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.

		<b>Early Bird on or before 10<sup>th</sup> September, 2022</b>	<b>After 10<sup>th</sup> September, 2022</b>
<b>Indian Authors &amp; Delegates (in INR)</b>			
<b>Authors</b>	<b>Full Time Students</b>	4,000.00	4,500.00
	<b>Teachers/ Research Scholars</b>	4,500.00	5,000.00
	<b>Industry</b>	5,000.00	6,000.00
<b>Delegate</b>	<b>Student / Research Scholar</b>	1,000.00	1,500.00
	<b>Academician /Industry</b>	1,500.00	2,000.00
<b>Foreign Authors &amp; Delegates (in USD \$)</b>			
<b>Authors</b>	<b>Full Time Students</b>	150	250
	<b>Teachers/ Research Scholars</b>	200	300
	<b>Industry</b>	350	400

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