7th International Conference on
Recent Trends in Image Processing and Pattern Recognition

December 19-20, 2024

Indian Institute of Information Technology Bhopal, India
in collaboration with Maulana Azad National Institute of Technology Bhopal, India
and 2AI: Applied Artificial Intelligence Research Lab - University of South Dakota, USA

HYBRID EVENT

ST6: CYBER-PHYSICAL SYSTEMS AUTOMATION FOR INDUSTRY 4.0

About Special Track:

Cyber-Physical Systems hold tremendous importance in the context of Industry 4.0 due to their ability to revolutionize manufacturing and industrial processes in terms of advancements in automation, efficiency, sustainability, and collaboration, while also addressing challenges related to cybersecurity and data management. The goal of the proposed special track is to invite research works that identify challenges, report experiences, and discuss progress towards design solutions or vision ideas which will help in contributions to describing techniques applied to the Industry 4.0 CPS problems, novel Networking Architectures and Protocols, Systems and Platform Designs, and Applications along with interdisciplinary research involving integration of AI, SDN, IoT, Sensor Networks, Embedded Systems, Mobile, Edge and Cloud resources, AR, VR, Machine Intelligence techniques, Game Theory, Trusted Computing and Societal Computation.

Topics of Interest:

* Agriculture Automation
* Automation for Green Computing
* Entertainment Media Automation
* Automating Civil Infrastructures
* Industrial Automation & Consumer Electronics

But not limited to...

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Main Track (RTIP2R-2024)
ST1: Advancements in AI for Image Processing
ST2: AI in Healthcare
ST3: Emotional well-being Digital Twin
ST4: Cross-Modal Information Retrieval using Image and Textual Contents
ST5: Quantum-Enhanced Imaging and ML for Environmental Analysis
ST6: Cyber-Physical Systems Automation for Industry 4.0
ST7: Advancements in Machine Learning and Pattern Recognition for Electrical & Electronics Engineering
ST8: Machine Learning Techniques for Image, Speech and Natural Language Processing
ST9: Transforming Urban Landscapes: Harnessing the Synergy of IoT and Machine Learning for Smart Cities' Data-Centric Evolution

Paper submission: Papers are expected to be within the **5-8 page**. The authors are advised to follow **Guidelines** to prepare their manuscript.

Templates: **MS-Word Template** or **LaTeX Template**
Note: We recommend using the **LaTeX** template.

Please select ST6: Cyber-Physical Systems Automation for Industry 4.0 from tracks before you begin your submission as shown.

SUBMISSION URL: https://cmt3.research.microsoft.com/RTIP2R2024

Deadline: 15/06/2024

TRACK CHAIRS

Dr. Madhukrishna Priyadarsini
NIT Trichy, India

Dr. AHM Jakaria
Electric Power Research Institute, Tennessee, United States

PUBLICATIONS

Scopus Indexed

Conference proceedings will be published in **Procedia Computer Science, Elsevier**.
Selected and/or best papers may be extended for journal issues (SCI, Scopus, and DBLP indexed).