



CALL FOR PAPERS

2022 First International Conference on Informatics (ICI-2022) 14th – 16th Apr, 2022
Jaypee Institute of Information Technology, NOIDA, India



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<https://ici-conference.com/>

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The 2022 First International Conference on Informatics (ICI) aims to provide a leading international forum for researchers, scientists, and industry professionals who are working on next generation informatics. ICI-2022 is organized under the leadership and joint vision of the Department of CSE & IT, JIIT, Noida (outskirt of Delhi, India) & Prof. Sartaj Sahni, University of Florida, USA.

The conference will give a platform to showcase methodological and technological advancements in the emerging areas of Big Data, AI & Machine learning, Blockchain and Cloud Technology, IOT and smart systems etc. Due to on-going pandemic situation, ICI-2022 will be conducted in hybrid mode. **The authors of accepted papers will have a choice to present their papers on-line or in physical mode.** Online presentations will have reduced registration fees.

Scope:

Informatics aspects have been organized around five different thematic tracks:

- Track-1: Artificial Intelligence & Machine Learning
- Track-2: IoT and Smart systems
- Track-3: Cloud & Distributed Computing
- Track-4: Big Data & Data Analytics
- Track-5: Block Chain Technology

Topics of interest under each track are mentioned in the next page.

Important Dates:

Full Paper Submission: **15th Nov 2021**
Author notification: **15th Jan 2022**
Final Camera Ready Submission: **15th Feb 2022**

Paper Submission:

ICI-2022 is soliciting the submission of papers with significant research contributions to the field of informatics research. ICI uses easychair system for submission of papers and review process. Prospective authors should submit their papers online using the link <https://easychair.org/conferences/?conf=ici2022>. Unregistered authors should first create an account on easy chair to log in.

Papers should strictly adhere to the IEEE Conference formatting requirements using the templates available at <https://www.ieee.org/conferences/publishing/templates.html> (Use the A4 (DOC, 30 KB) format updated Jan 2019). It should not exceed 6 pages including references. Word Template File is also available on the conference website for author's convenience.

Papers must present original contributions and can neither be previously published nor under review by another conference or journal. Papers containing plagiarized material will be subject to the IEEE plagiarism policy and possible penalties, and will be rejected without review. IEEE policy on plagiarism can be found at <https://www.ieee.org/publications/rights/plagiarism/plagiarism.html>.

Presentation and Registration Requirements:

ICI-2022 has a requirement that at least one of the authors of any accepted paper must register for the conference at the full rate and be available to present the paper at the conference. However, the current circumstances are unusual and unpredictable and we take everyone's health very seriously.

We would prefer if one of the authors attends to present the paper physically. However, requests by authors to present papers remotely, without physical attendance will be accommodated. Any paper that is not presented by an author of the paper, either physically in-person or remotely, will be withdrawn from the proceedings and thus from IEEE Xplore.

Conference location: Jaypee Institute of Information Technology, A-10, Sector-62, NOIDA (Outskirts of New Delhi), India

For any query, please contact: Prof. Sandeep K. Singh, Department of CSE&IT, Jaypee Institute of Information Technology, NOIDA, India.

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Track-1: Artificial Intelligence & Machine Learning

<p>Bioinformatics and biomedical informatics Healthcare and clinical decision support Collaborative filtering Computer vision Human activity recognition Information retrieval Cybersecurity Natural language processing Web search Evaluation of Learning Systems Computational learning theory Experimental evaluation Knowledge refinement and feedback control Scalability analysis Statistical learning theory Computational metrics Clustering, Classification and regression methods Supervised, semi-supervised and unsupervised learning Cold-start recommendation systems</p>	<p>Trust aware collaborative learning Active Machine Learning Manifold Learning Multi-contextual behaviours of users Learning using Ensemble and boosting strategies Algebra, calculus, matrix and tensor methods in context of machine learning Reinforcement Learning Optimization methods Parallel and distributed learning Inference dependencies on multi-layered networks Recurrent Neural Networks and its applications Tensor Learning Higher-order tensors Self-organizing networks Multi-scale learning Unsupervised feature learning Automated response Conversational Recommender systems Collaborative deep learning</p>	<p>Fuzzy Learning Kernel Based Learning Hybrid models Genetic optimization Fuzzy approaches to parameter estimation Bayesian estimation approaches Boosting approaches to Transfer learning Heterogeneous information networks Recurrent Neural Networks Influence Maximization Co-evolution of time sequences Social group evolution – dynamic modelling Adaptive and dynamic shrinking Pattern summarization Graph embeddings Graph mining methods Structure preserving embedding Anomaly detection in streaming heterogeneous datasets Signal analysis</p>
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Track-2: IoT and Smart Systems

<p>Smart Cities design using IoT Smart Home Automation Systems Smart Healthcare Systems Smart Agricultural Systems Smart Manufacturing Systems Smart Transportation Systems Smart Weather Prediction Systems Smart Traffic Management Systems Smart Energy aware systems in IoT Smart Systems using AI Industrial IoTs</p>	<p>IoT and Cloud IoT and Sustainable Developments IoT and Robotics IoT System Models and Performance Analysis IoT Analytics Internet of Everything (IoE) Security, Privacy and Trust issues in IoT IoT and Edge Computing IoT and Fog Computing IoT supports for Covid-19 IoT and Machine Learning</p>	<p>IoT and Artificial Intelligence IoT and Deep Learning IoT and Cloud IoT and Big Data IoT and Block Chain Technologies IoT and Connectivity IoT and QoS IoT and Drone Design IoT and Sensors IoT and Sensor Networks IoT in Oil & Gas Sectors</p>
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Track-3: Cloud & Distributed Computing

<p>Cloud Computing and Data Centers Cloud computing system and network design Cloud storage design and networking Cloud system and storage security Cloud as a Service(IaaS, PaaS, and SaaS, Function as a Service, Network as a Service, Storage as a Service, Everything as a Service) Cloud Infrastructure Cloud Computing System & Architectures Edge Computing System & Architectures Hybrid-clouds & Multi-clouds Integration Large Scale Cloud Applications Terminal-Edge-Cloud Applications 5G/6G Enhanced Edge/Cloud Applications Social & Mobile Cloud Applications Innovative Cloud Applications Cloud Management and Operations Distributed & Parallel Query Processing Resource, Energy & Data Management Cloud Metering & Monitoring Virtualization in the Context of Cloud Computing Platforms</p>	<p>System Integration, Virtual Compute Clusters Consolidation SDN, NFV, & Data Centre Network Cloud Service Adaptation & Automation Cloud Federation & Service Composition Cloud Security and Privacy The Open Cloud: Cloud Computing and Open Source Trusted Cloud Environments Distributed Big Data Systems and Analytics Distributed Operating Systems and Middleware Distributed Algorithms and Theory Distributed Fault Tolerance and Dependability Distributed Green Computing and Energy Management Security, Privacy, Trust in Distributed Systems Distributed and Federated Machine Learning Distributed Embedded Systems Distributed Database Systems Distributed Quantum Computing Scalable Distributed Systems Biological and nature-inspired distributed algorithms</p>	<p>Distributed graph algorithms Distributed machine learning and data science Experimental evaluation of distributed algorithms and systems Formal methods for distributed computing: verification, synthesis and testing Game-theoretic and knowledge-based approaches to distributed computing Massively-parallel, high-performance, cloud and grid computing Mobile agents, autonomous distributed systems, swarm robotics Multiprocessor and multi-core architectures and algorithms Computation in IoT Systems Communications in IoT Systems IoT platforms Architectures for IoT Applications and tools for IoT Security Solutions for IoT</p>
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Track-4: Big Data & Data Analytics

<p>Data Acquisition Storage and Retrieval for Big Data Data representation and processing Data Mining Data Fusion Models Multi-level and Multi-view Modelling Spatial and Temporal Models Multimodal Data Types (text, sensor data, graphs, images, video, streams, etc.) Acquisition, Storage and Retrieval for Big Data Data representation and processing</p>	<p>Feature Engineering Data and Information Quality Data Granularity Metadata Management Knowledge Discovery Visualization Large Scale Optimization Data Virtualization Security, Privacy and Trust Big Data applications Natural Language Processing</p>	<p>Streaming Data Analysis Healthcare Applications Human and Social Behaviour Analysis Business, Finance and Decision Making Knowledge based Systems Real Time Data Intensive Systems Feature Engineering Data and Information Quality Data Granularity Data Security Social Media Security & Privacy</p>
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Track-5: Block Chain Technology

<p>Blockchain for IoT Blockchain based social media Distributed supply chains Blockchain based access control Distributed notaries Blockchain in health care Blockchain for telecommunications Blockchain novel applications</p>	<p>Non blockchain-based Distributed Ledgers Blockchain for wireless IoT/sensor networks Security and privacy of blockchain-based IoT New network architecture design for blockchain based IoT Blockchain-enabled IoT ecosystem and its applications, e.g., finance, healthcare, energy, supply chain, entertainment, etc</p>	<p>Cryptocurrencies Blockchain for wireless IoT/sensor networks Security and privacy of blockchain-based IoT New network architecture design for blockchain based IoT Blockchain-enabled IoT ecosystem and its applications, e.g., finance, healthcare, energy, supply chain, entertainment, etc</p>
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