



2nd International Conference on Emerging trends and Innovations in ICT (ICEI)-2022

ICEI-2022 invites researchers, academicians, professionals, practitioners, and students to impart and share their knowledge in the form of high quality original research papers proposing novel solutions and case studies addressing the current real life problems.

Publications

All presented papers will be published in **Recent Advances in Electrical & Electronic Engineering** (Web of Science, ESCI, Scopus indexed), **Springer LNNS** (Scopus indexed), and **Springer LNCS Transaction in Computer Science** after another round of review by the publisher, if required.

10th-12th
March 2022

Organized by

SCTR's Pune Institute of Computer Technology,
Pune Maharashtra (India)



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About PICT

Pune Institute of Computer Technology (PICT), an elite academic institute located in Pune (India), which is rightly known as ‘The Oxford of the East’, playing an inspiring role in the education sector since its establishment in 1983.

PICT believes in value-based quality education in the field of Information and Communication Technology (ICT) and it is constantly endeavoring to achieve higher levels of technical excellence by offering under-graduate (UG) programmes in Computer Engineering (CE), Electronics & Telecommunication Engineering (E&TC), and Information Technology (IT); and post-graduate (PG) programmes in Computer Engineering, Data Science, Electronics & Communication (Wireless Communication Technology), and Information Technology. It is also Savitribai Phule Pune University (SPPU) recognized Research Center in Computer Engineering and Electronics & Telecommunication Engineering.

Institute is UGC Approved, ISO 9001:2015 Certified, and is NAAC Accredited (3rd Cycle). All UG programmes of PICT are NBA Accredited (CE and E&TC-6 times, IT 4 times). PICT is Ranked 8th among private Engineering Institutions in India, 1st among all private Engineering Institutions in Maharashtra, and 4th among all Engineering Institutions including IITs, NITs, and Govt. Colleges in Maharashtra (as per the EDU-RAND ranking- 2015). As per the NIRF 2020 and 2021 Ranking, PICT is placed in 201 to 250 ranking band.

Vision: Pune Institute of Computer Technology aspires to be the leader in Higher technical education and research of international repute.

Mission: To be the leading and the most sought-after institute of education and research in emerging engineering and technology disciplines that attracts, retains, and sustains gifted individuals of significant potential.

About ICEI-2022 Conference

2nd International Conference on Emerging trends and Innovations in ICT (ICEI)-2022 will provide an online platform to the participants with opportunities to present and explore emerging trends in the interdisciplinary areas along with practical challenges encountered and possible solutions of high impact.

The conference will provide an amazing online platform for promoting and inculcating research culture by bringing together potential researchers and innovators from leading academics, industries, and research organisations to share and exchange their knowledge and ideas across all aspects of Computing, Communication Engineering, Information Science, and Information Technology for sustainable development and social contribution.

The conference will provide online workshops, tutorials, and panel discussions within its scope facilitating interaction with leading experts to share their insights, provide guidance and address participants’ questions.



Call for Papers

Track 1 - Big Data Storage and Analytics

- Data Mining and Knowledge Discovery
- Big Data Management
- Blockchain interoperability
- Data Warehousing
- Data Visualization
- Information Security
- Consensus mechanisms

Track 2 - Artificial Intelligence and Machine Learning

- Agents and Artificial Intelligence
- Neural Network Models, Deep Reinforcement Learning
- Multidisciplinary Natural Language Processing
- AI/ML in Informational Security
- Scalable and Real-Time Machine Learning
- Trustworthy Machine Learning and Evolutionary Computation
- Intelligent Robotics

Track 3 - Cognitive Systems, Vision and Perception

- Computer Vision and Pattern Recognition
- State of the art Machine Learning in Computer Vision
- Key Management and Distribution
- Multimodal Interface
- Homography, Camera-Stereo Geometry, and Super-resolution
- Attention Models and Generative Models in Vision
- Cross Reality
- Social Network Exploration
- Multimedia & Cognitive Informatics
- Pervasive Computing and Ambient Intelligence

Track 4 - Embedded Systems and Internet of Things

- Future IoT Technologies, Architecture, Interoperability, and Edge
- LSI and VHDL Architecture, Design System on Chip Design for Variability, Reliability, Fault Tolerance, Test, and others
- IoT Resource, Security, Privacy Management, and Self-Adaption

Track 5 - Soft Computing

- Nature inspired optimization algorithms such as Ant Colony, Flower Pollination
- Evolutionary Systems
- Fuzzy logic and Systems
- Transfer learning
- Artificial Immune Systems
- Swarm Intelligence and optimization
- Genetic Algorithms
- Fuzzy Reconfigurable Systems
- Morphic computing



Track 6 - Computational Intelligence

- Computational Intelligence in Bioinformatics and Computational Biology
- Multidisciplinary applications of computational intelligence in Water, Autonomous vehicles, Clean energy, Healthcare, Agriculture, Infrastructure, Defence, and related technologies
- Ontology-based Intelligent Systems
- Intelligent systems (tutoring, information retrieval, image processing, hybrid)
- Quantum Computing
- Computational Intelligence Multiagent System
- Bio Mechatronics and Rehabilitation Engineering
- Renewable systems

Track 7 - Advanced Communication Technologies

- Wireless and Mobile Communication
- Satellite Communication
- Sustainable Communication Technologies
- Vehicle Communication Systems, Remotely Operated Vehicles (ROV)
- Optical Fiber Networks
- Novel Microwave Theories and Technologies
- Cognitive Radio Networks
- Green Communication

Paper Submission Link: <https://easychair.org/conferences/?conf=icei2022>

Important Author Information

The ICEI-2022 invites prospective authors to submit manuscript reporting original unpublished research and recent developments in the topics related to the conference which is not published or not under review by any other journal, magazine, or conference.

The authors are required to submit full-text papers including but not limited to Abstract, Keywords, Introduction, Methodology, Result Description, Conclusion, Tables, Figures, and References.

The submission and review process for ICEI-2022 will be done with EasyChair. The abstracts and manuscripts must be uploaded by the authors using their EasyChair account on or before the deadline. The authors can also check the status of their manuscripts during the review process.

It is required that the manuscript follows the Recent Advances in Electrical & Electronic Engineering journal format.

For Manuscript guidelines click the link given below:

<https://benthamscience.com/journal/manuscript-preparation.php?journalID=raeeng#ifa>

For Paper Submission click the link given below:

<https://easychair.org/conferences/?conf=icei2022>

To ensure publication of paper at least one author should register and present the paper in the conference. The participation certificate will be given to only registered authors and presentation certificates will be given to the author who has registered and presented the paper.

All presented papers will be published in **Recent Advances in Electrical & Electronic Engineering** (Web of Science, ESCI, Scopus indexed), **Springer LNNS** (Scopus indexed), and **Springer LNCS Transaction in Computer Science** after another round of review by the publisher, if required.





Important Dates

October 30, 2021

Paper Submission Deadline

November 30, 2021

Extended Paper Submission Deadline

December 15, 2021

Acceptance Notification

December 30, 2021

Camera Ready Paper Submission

Registration Fees

Type of Participant	Participants	Early bird		Regular Registration	
		Indian Authors	Foreign Authors	Indian Authors	Foreign Authors
Author (presenter)	Students (UG/ PG/ PhD)	Rs 6000	\$150	Rs 7000	\$ 200
	Others	Rs 7000	\$150	Rs 8000	\$ 200
Attendee (all three days)	Students (UG/ PG/ PhD) and Others	--	--	Rs 1000	\$ 50

Note: Suitable discount will be provided for group registrations.

Call for Sponsorship Proposal

The ICEI-2022 is planned to include several keynote speeches by distinguished speakers from industry, academia, research organisations and government sectors. Conference has technical sessions featuring presentations of extensively peer reviewed technical papers; workshops focusing on the latest trends in various technologies; tutorials delivered by experts in respective disciplines, panel discussions, and forums on state-of-the-art trends in various domains.

We are looking for potential associates for our prestigious conference. We request you to consider associating with ICEI-2022 as an esteemed Sponsor. Kindly get back to us for Sponsorship details (Platinum, Gold, Silver, Bronze and Tracks).

Register your willingness and interest here: <https://forms.gle/UHtc9KRssb2WcxK39>





Call for Tutorials

The ICEI-2022 solicits half-day (3 hours) or full-day (6 hours) tutorial proposals on emerging trends and innovations in Information and Communication Technology (ICT), Tutorials are an integral part of the program of ICEI-2022. They provide participants with broad and comprehensive overviews of emerging fields in ICT.

Proposal should cover following points:

- Title
- Abstract
- Objectives and motivation
- Intended audience
- Prior history of the workshop conduction and number of past attendees, if applicable
- Tutorial Outline
- Short biography of the instructor(s)

Please submit your tutorial proposal as a single PDF file (maximum 5 pages, double-space) by email to conference@pict.edu with the heading "ICEI-2022 Tutorial Submission".

Proposal Submission Deadline: 30 November 2021

Call for Workshop

The ICEI-2022 invites one-day or two-day workshop proposals from premier academic institutes, research institutes and industries. Workshops should provide hands-on experience to the attendees on softwares/tools/technologies etc. for an in-depth understanding of the state-of-the-art topics related to the conference theme.

Proposal should cover following points:

- Title
- Abstract
- Objectives and motivation
- Intended audience
- Prior history of the workshop conduction and number of past attendees, if applicable
- Workshop Outline
- Short biography of the instructor(s)

Please submit your workshop proposal as a single PDF file (maximum 5 pages, double-space) by email to conference@pict.edu with the heading "ICEI-2022 Workshop Submission".

Proposal Submission Deadline: 30 November 2021



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