Call for Papers

The International Conference on Advancements in Computing (ICAC) is organized by the Faculty of Computing of Sri Lanka Institute of Information Technology (SLIIT) as an open forum for academics along with industry professionals to present the latest findings, research output and practical deployments in the Computer Science and Information Technology domains. ICAC 2024 will be held on 12th and 13th December for the sixth consecutive year and all previous ICAC conferences (2019 – 2023) were successfully conducted with the technical co-sponsorship by IEEE Sri Lanka. Uplifting the research culture and elevating the quality of research by Sri Lankan researchers being the primary objective, ICAC creates a platform for national and international researchers to showcase research output, network, and initiate collaborations. In addition, this year's conference is especially focused on bridging the horizons in Artificial Intelligence for the betterment of the future, acknowledging the advancements of computing.

Prospective authors are kindly invited to submit manuscripts through the ICAC 2024 online portal (Conference Management Tool) : Submission link will be available soon

Major topics under the conference theme include (not limited to):

1 Advances in GenAI and Explainable AI - GenAI Development and Frameworks, Ethical and Societal Implications of General AI, Explainability and Interpretability in AI Systems

2 Autonomous Intelligent Machines & Systems – Autonomous Vehicles, Autonomous Systems Integration, Robotics, Embedded systems, IoT applications, Human-Robot Interaction, Navigation and Path Planning

3 Agri-Tech Computing Innovations – Smart Farming Systems, IoT in Agriculture, AI in Agriculture, Remote Sensing and Imaging, Data Analytics in Agriculture, Agricultural Robotics, Precision Agriculture

4 Intelligent Health Tech & Assistive Solutions – Digital Healthcare Innovations, AI-Enabled Healthcare Tools, Assistive Tech for Vision/Hearing Impaired, Solutions for Learning Disabilities, Remote Monitoring and Assistive Care, Rehabilitation and Therapy Technologies

5 Computer Vision and Natural Language Processing- Image Recognition and Understanding, Video / Scene Analysis and Understanding, Advances in NLP, Transformer Models and Generative Models.

6 Sustainable Socio-Economic Ecosystems - eCommerce and Digital Marketplaces, Social Media Integration and Digital Collaboration Tools, Digital Entrepreneurship and Startup Ecosystems, Information Systems (IS) Implementation and Best Practices, Technology Infrastructure and Organizational Processes, Design and Development Methodologies for Digital Solutions, Risk Management in Digital Environments, Innovation and Knowledge Management

7 Secure Digital Ecosystems – Cybersecurity**,** Information Security and Privacy, Application Security, Blockchain, Secure Protocols, Biometrics, Cryptography, Digital Forensics, Risk and Governance

8 Technology Enhanced Learning - E-learning Applications, Adaptive and Personalized Learning, Learning Analytics and Dashboards, MOOCs and Other Remote Education Approaches, Virtual Learning Environments, Collaborative Learning Platforms.

9 Communication and Networked Services - Cellular Networks Including 4G, 5G, Wireless and Mobile Networks, Network Simulations and Modelling, Routing, Switching and Protocols, Cooperative Communications and Networking, Cloud Computing, Virtualization, SDN, CDN, QOS and Resource Management.

10 Interactive Design – Game Development, Immersive VR Experiences, AR Gaming Applications, Streaming Media Technologies, Haptics and multisensory applications, User Interface Engineering, UX and Usability

These papers should follow the standard IEEE conference format. Information regarding the formatting and other details could be obtained from the link below. All submitted papers should contain original, unpublished work. All submissions will be checked for plagiarism.

Paper submissions should satisfy the criteria listed below.

- **Paper template**: The paper submission template (IEEE double-column) can be found at:
  Manuscript Templates for Conference Proceeding:
  https://www.ieee.org/conferences/publishing/templates.html
- **Paper Format**: Should be written using double column format in **A4** (Download A4 Format from the IEEE templates) size with maximum up to 6 pages including all figures, tables, and references (for every additional page, extra page charges may apply)
- **Allowable file size**: 2 MB
- **Paper submission**: Submit your paper (pdf version) through ICAC 2024 online paper submission system (Submission link will be available soon)
- Final submission PDF file must be IEEE Xplore compliant.

Review & Publication Process:
- **Desk review**: Initial submissions with high similarity index will be rejected without review.
- **Review**: All the papers submitted to ICAC2024 are subjected to double blind review. Hence, the authors must submit the paper to CMT without the author names and their affiliations to facilitate the double blind-review process.
- **Camera-ready submission**: Authors of accepted papers will be notified through email requesting to submit the camera-ready version.
- **Registration**: For each accepted paper, at least one of the authors must register on or before the registration deadline.
- **Presentation**: Presenting the accepted paper is mandatory for the paper to be included in IEEE Xplore® online digital library. ICAC2024 may allow authors with foreign affiliations to present papers through online mode on request.
- **Awards**: Outstanding papers with high impact will be selected for the Best Paper Award(s) at the conference.

Important Dates

- Paper Submission (open)   1st June 2024
- Paper Submission (close)   15th August 2024
- Acceptance Notification   01st October 2024
- Registration (early bird)   15th October 2024
- Camera Ready Paper   15th October 2024
- Registration (Close)   01st November 2024
- Conference   12th and 13th December 2024