# ICARC
International Conference on Advanced Research in Computing

# 2nd International Conference on Advanced Research in Computing
# ICARC 2022
23rd & 24th February 2022
*"Towards a Digitally Empowered Society"*

## VIRTUAL CONFERENCE

## CALL FOR PAPERS

2nd International Conference on Advanced Research in Computing (ICARC 2022) is organized by the Department of Computing and Information Systems, Faculty of Applied Sciences, Sabaragamuwa University of Sri Lanka with the theme "Towards a Digitally Empowered Society". The ICARC 2022 will bring together researchers and practitioners to present their findings on a wide range of research topics, spanning computing research.

## KEY FEATURES

» Keynote speeches by top-notch researchers

» Plenary speeches on trending research topics

» Workshops on active topics

» Speeches collaborating with IEEE Women in Engineering

## IMPORTANT DATES

**Paper Submission Open**
01st September 2021

**Paper Submission Closed**
21st November 2021

**Paper Acceptance**
01st January 2022

**Camera Ready Submission**
15th January 2022

**Early Bird Registration**
01st February 2022

**Regular Registration**
15th February 2022

**Conference Dates**
23rd & 24th February 2022

## INQUIRIES

**Conference Secretary**
Tel: +94(0) 705544656  |  Email: secretary@icarc.sab.ac.lk

**Publicity Chair**
Tel: +94(0) 711140585  |  Email: info@icarc.sab.ac.lk

www.icarc.sab.ac.lk

## TRACK 01

### Artificial Intelligence and Machine Learning

Machine Learning, Deep Learning & AI, Fuzzy Logic and Fuzzy Systems, Hybrid Intelligent Systems, Information Retrieval, Robotics, Soft Computing and Applications, Probabilistic Reasoning, Evolutionary Compuing, Hybrid Intelligent Systems, Software Agents, Soft Computing Theory and Applications, Web Intelligence Applications & Search.

## TRACK 02

### Data Science and Applications

Natural Language Processing, Sentiment Analysis, Statistics, Data Storage, Management and Innovation, Big Data Analytics, Business Analytics, Data Science Techniques for Handling Epidemics and Pandemics.

## TRACK 03

### Parallel and Distributed Computing

Parallel algorithms, Parallel and Distributed microarchitectures, Performance Modelling for Parallel and Distributed Processing, Parallel and Distributed Programming Models, Middleware and System Software, Applications in Blockchain and Cryptocurrency, Bioinformatics, Cybersecurity, Computer Networks and Cloud Computing.

## TRACK 04

### Human-Computer Interaction and Computer Vision

Human-computer interaction, Speech, Graphic, Haptic, and Multimodal Interaction, Cross-Cultural Design, Virtual, Mixed, and Augmented Reality Interfaces and Systems, Artificial Intelligence in HCI, Image Acquisition & Medical Image Processing, Pattern Recognition and Analysis, Visualization, Image Coding and Compression, Image and Video Analysis.

## TECHNICALLY CO-SPONSORED BY

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IEEE computer society Sri Lanka

IEEE ComSoc IEEE Communications Society SRI LANKA CHAPTER

Recognition From:
IEEE Women in Engineering WIe Sri Lanka

## TRACK 05

### Software Engineering

Software Engineering Methodologies, SOA and Sering, Testing and Analysis, Empirical Software Engineering, Software Evolution, Formal methods applied to software engineering, Social Aspects of Software Engineeing, Requirements Modeling and Design, Dependability.

## TRACK 06

### Knowledge Management and Information Systems

Information Systems Management, Information Systems and Technology, Knowledge Acquisition and Management, Information Systems Security, Knowledge Base Systems, Business intelligence and CRM, KM Strategies and Implementations Knowledge Management Projects, Tools and Technology for Knowledge Management.

## TRACK 07

### Technology-enhanced Learning, Teaching and Evaluation

eLearning Specifications and Standards, Large-scale Learning Systems, Personalization, user modelling and adaptation, Compuer-supported collaborative learning, Adaptive learning systems, Collaborative knowledge building, Digital divide and learning, Education policies, Learning analytics, New forms of e-assessment, Learning design and design approaches, Teaching Techniques and Strategies for Online Learning.

## TRACK 08

### Industry R&D

Research and Development works conducted by industry can be submitted here.

## TRACK 09

### Open

Computing research papers which are not categorized under the above tracks are welcomed here.

All presented papers at the conference will be submitted to the **IEEE Xplore**

## KEYNOTE SPEAKERS

**Associate Professor**
**Supavadee Aramvith**
Department of Electrical Engineering,
Chulalongkorn University,
Thailand
Topic- AI based Video Analytics

**Dr. Nalin Asanka**
School of Computer Science,
University of Auckland,
New Zealand
Topic- Mind the gap: Engineering Usable Security and Privacy Systems

## WORKSHOPS

**Prof. Chandimal Jayawardena**
Sri Lanka Institute of Technology

**Dr. Sagara Sumathipala**
University of Moratuwa

**Dr. Fairoza Amira Binti Hamzah**
STMicroelectronics, Malaysia

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