



RV College of
Engineering®

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6th INTERNATIONAL CONFERENCE on

COMPUTATIONAL SYSTEMS &
INFORMATION TECHNOLOGY
FOR SUSTAINABLE SOLUTIONS [CSITSS-2022]

ORGANISED BY
RV College of Engineering®

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21ST TO 23RD DEC 2022

VISION

Leadership in Quality Technical Education, Interdisciplinary Research and Innovation, with a focus on Sustainable and Inclusive Technology.

MISSION

- ◆ To deliver outcome-based quality education, emphasizing on experiential learning with state-of-the-art infrastructure.
- ◆ To create a conducive environment for interdisciplinary research and innovation.
- ◆ To develop professionals through holistic education focusing on individual growth, discipline, integrity, ethics and social sensitivity.
- ◆ To nurture industry – institution collaboration leading to competency enhancement and entrepreneurship.
- ◆ To focus on technologies that are sustainable and inclusive, benefiting all sections of the society.

ABOUT RVCE

RV College of Engineering (RVCE) established in 1963 is one of the earliest self-financing engineering colleges in the country. The institution is run by Rashtreeya Sikshana Samithi Trust (RSST) a not-for-profit Trust. RVCE is recognized as leading technical institution and rated amongst the top five self-financing Engineering colleges in the country. Currently, the institution offers 13 Bachelor, 16 Master Programs and all the departments have research centres, affiliated to Visvesvaraya Technological University (VTU) Belagavi.

The institution is Ranked 78th in the Country by National Institutional Ranking Framework (NIRF) during 2020-21 and QS-IGUAGE - DIAMOND University Rating (2021-2024). 11 UG programs and eligible M. Tech. & MCA programs have been accredited by NBA multiple times. The institution has to its credit over 1500 National and International Journal publications, filed over 50 patents, 44 published patents, 12 patents granted, completed sponsored research and consultancy projects worth ₹. 20.0 crores in the last three years. RVCE has established 16 Center of Excellence in novel and technological driven areas. The College currently has student strength more than 5500, faculty strength of above 350, technical administrative Staff of about 230 and around 350 Research Scholars are pursuing Ph.D.

ABOUT THE CONFERENCE

The 6th International Conference on “Computational Systems and Information Technology for Sustainable Solutions [CSITSS – 2022]” focusses to bring together leading academicians, scientists, researchers, industry representatives, postdoctoral fellows and research scholars around the world to share their knowledge and research expertise in SPICCE (Sensors, Processors, Intelligent systems, Computing, Communication and Energy solutions) from **21st to 23rd December 2022**.

The conference has been successfully organised for the past five years with participants from all over India and abroad. All peer reviewed and selected papers of the conference will be submitted for possible inclusion in IEEE digital library. The present version of the CSITSS-2022 aims to achieve higher standards by attracting original research works in the domain of SPICCE. International speakers will deliver the keynote talks on the latest technologies in these domains. The CSITSS-2022 ensures to provide a platform for researchers around the globe for knowledge exchange and networking.

CALL FOR PAPERS

Prospective authors are encouraged to submit quality and original research papers for presentation at the Conference. Authors are requested to submit their manuscripts in PDF format not exceeding 6 pages in A4 size through online submission at Microsoft CMT - on or **before 15th July 2022**. The manuscript should follow the standard IEEE template. The format of the paper could be downloaded in link <https://www.ieee.org/conferences/publishing/templates.html>.

All submission for the conference will be handled electronically and submitted papers will be double blind peer reviewed by domain experts. Microsoft CMT Link: <https://cmt3.research.microsoft.com/CSITSS2022>.

CONFERENCE TOPICS

Authors are invited to submit their original research work in the following areas (but not limited to)

Track1: Sensors: Sensors, Automation and Process control

- ◆ Sensors for Smart Systems (Health Care/IoT systems/Agriculture, etc.)
- ◆ Wearable electronics
- ◆ Industrial/Home Automation
- ◆ Bioinformatics
- ◆ Non-invasive Biomedical devices
- ◆ Robotics
- ◆ Advanced control Applications

Track 3: Intelligent Systems

- ◆ Modeling and Simulation
- ◆ Natural Language Processing
- ◆ Computer Vision and Pattern Recognition
- ◆ Data Science and Big Data Analytics
- ◆ Augmented and Virtual Reality
- ◆ Artificial Intelligence and Machine Learning
- ◆ Smart City
- ◆ Smart Transport Systems

Track 5: Communication

- ◆ Sensor Networks
- ◆ Channel Models for mmwave and THz
- ◆ Signal Processing for RADAR, SONAR and LiDAR
- ◆ Speech/Image/Video Processing
- ◆ MIMO and multicarrier
- ◆ 5G and Beyond 5G Communications
- ◆ IoT networks and Integration with cellular
- ◆ Optical Communication
- ◆ Software Defined Radio/ Networks

Track 2: Processors: VLSI Design and Embedded Systems

- ◆ Analog/ Digital /Mixed Signal/RF System Designs
- ◆ Static Timing Analysis, Physical design, Circuit Design and Layouts
- ◆ Emulation, Verification: Pre-silicon, Post-silicon and Validation
- ◆ H/W and S/W acceleration, IPs for system designs
- ◆ Testing-ATE, DFT, MBIST, Scan
- ◆ Machine Learning on Hardware/Neural Processing units
- ◆ High reliable Systems

Track 4: Computing

- ◆ Cyber security and Block-chain
- ◆ Web and Mobile Applications
- ◆ Human-Computer Interaction
- ◆ Internet of Things/ Cyber Physical Systems
- ◆ Soft Computing
- ◆ Knowledge-based Systems
- ◆ Cloud and Edge Computing
- ◆ Social Computing and Networks
- ◆ Autonomic Software Systems

Track 6: Energy Systems

- ◆ Energy management for smart mobility
- ◆ Intelligent Energy management and sustainable solutions
- ◆ Computational Intelligence for energy management
- ◆ Autonomous Electric vehicles
- ◆ Renewable energy systems
- ◆ Power System and High Voltage DC Transmission
- ◆ Wireless Power Transfer
- ◆ Battery Technology
- ◆ Industrial Drives and Automation

At least one of the authors should register to participate in the Conference. The payment mode is mentioned in the conference website. Registration is compulsory for participation in the Conference.

Authors and participants are requested to download the registration form from the conference website and submit the filled form to the Email ID: csitss2022@rvce.edu.in

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IMPORTANT DATES

FOR 6TH INTERNATIONAL CONFERENCE

Submission of Full-length Manuscript(opens from): 15 June 2022
 Last date to submit Full-length Manuscript: 18 July 2022
 Notification of Acceptance: 12 August 2022-7 September 2022
 Early Bird Registration: 16 August 2022-15 September 2022
 Submission of Camera-ready Manuscript: 5 October 2022
 Last Date for Registration: 20 November 2022
 Pre-Conference Tutorial: 21 December 2022
 Conference Dates: 21-23 December 2022

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