



**RV College of
Engineering®**



IEEE
BANGALORE SECTION

7th International Conference on COMPUTATIONAL SYSTEMS & INFORMATION TECHNOLOGY FOR SUSTAINABLE SOLUTIONS – (CSITSS-2023)

Conference Record #60515

ORGANISED BY
RV College of Engineering®

IN ASSOCIATION WITH



TECHNICALLY CO-SPONSERED BY

IEEE Bangalore Section

November 2nd to 4th, 2023

VISION

Leadership in Quality Technical Education, Interdisciplinary Research and Innovation, focusing 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 an Autonomous college. Currently, the institution offers 15 Bachelors, 13 Master Programs and all the departments have Research Centres, affiliated to Visvesvaraya Technological University (VTU) Belagavi. The institution has set itself a Vision "Leadership in Quality Technical Education, Interdisciplinary Research & Innovation, With a Focus on Sustainable and Inclusive Technology".

Recent awards and achievements include – Ranked 96th in the Country by National Institutional Ranking Framework (NIRF: 2023), QS-IGUAGE –Diamond University Rating (2021-2024), ranked 1501+ in Times Higher Education World University Rankings-2022, "Excellent" rating in ARIIA Ranking-2021 and NPTEL (Local Chapter) "A" Rating & Max. No. of NPTEL Stars.

The institution has to its credit over 1500 National and International Journal & Conference publications, filed 06 patents, 12 published patents, 17 granted patents, completed sponsored research and consultancy projects worth ₹ 16.0 crores in the last three years The institution has established Centres of Competence (7) and Centres of Excellence (17) in various domains. The students have won awards and accolades in national and international competitions.

ABOUT CONFERENCE

The 7th International Conference on "Computational Systems and Information Technology for Sustainable Solutions [CSITSS – 2023]" focuses on bringing together leading academicians, scientists, researchers, industry representatives, postdoctoral fellows and research scholars around the world to share their knowledge and research expertise in **Renewable Energy, Robotics, Computing, Communication, E-mobility and Embedded Systems (R2C2E2)** from **2nd to 4th, November 2023**.

The conference has been successfully organised for the past six years with participants from all over India and abroad. All peer-reviewed, selected and presented papers from the conference will be submitted for possible inclusion in IEEE digital library. The present version of the CSITSS-2023 aims to achieve higher standards by attracting original research works in the domain of **R2C2E2**. International speakers will deliver keynote talks on the latest technologies in these domains. The CSITSS-2023 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 **5th August 2023**.

The manuscript should follow the standard IEEE template. The format of the paper can be downloaded in the link below

<https://www.ieee.org/conferences/publishing/templates.html>.

All submissions for the conference will be handled electronically and submitted papers will be peer-reviewed by domain experts. To submit the papers, use the Microsoft CMT Link mentioned below:

<https://cmt3.research.microsoft.com/CSITSS2023/Submission/Index>.

CONFERENCE TRACKS

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

Track 1: Renewable Energy

- Power Systems & HVDC
- Power Electronics and Industrial Drives
- Renewable Energy Systems & Grid Integration
- Microgrids and Smart Grids
- Power System Protection, Monitoring & Control
- Computational Intelligent Techniques for Energy Sustainability
- Power System Resilience & Cyber Security

Track 2: Robotics

- Sensors & Systems
- Industrial & Home Automation
- Robotics and Advanced Control Systems
- Biomedical Applications
- Virtual Instrumentation
- UAV/Drone Technology
- Wearable and Implantable Body Sensor
- DCS & SCADA

Track 3: Communication

- 5G and beyond
- Multi Media Communication
- Quantum Communication
- Optical Communication and Networks
- Radar, Sonar and Lidar Applications
- Microwave and Wireless Networking
- Software Defined Networking (SDN)
- Ultra-Wideband and Green Communications
- Satellite Communication & Remote Sensing

Track 4: Computing

- Computer Networks and Cyber Security
- AI & ML
- Web and Mobile Applications
- Computing Environments - Mobile, Cloud, Edge and other
- Internet of Things
- AR, VR, MR & Metaverse
- Data Analytics
- Block Chain
- Computer Vision
- Cyber Physical System
- Industry 4.0
- Social Media Networks

Track 5: E-Mobility

- Hybrid Energy Storage & Battery Management System
- Smart City & Smart Energy System
- Fuel-cell-based transport
- EV/HEV Design, HIL, SIL & Annotation
- EVs and PHEVs Charging, V2G Strategies
- Autonomous Vehicle and Intelligent Guidance,
- Safety Assessment
- Modelling, Simulation and Control of EV Systems

Track 6: Embedded systems

- Analog, Digital & Mixed Signal
- Advances in CAD for VLSI
- Embedded Systems Design
- Low-Power Digital Architectures
- Microsystems, MEMS, Sensors Test
- Pre-silicon, Post-silicon: Debug, Verification and Validation

REGISTRATION

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: csitss@rvce.edu.in

REGISTRATION DETAILS

- Beneficiary Name: PRINCIPAL, RVCE
- Bank Account Number: 136010112055
- Bank Name: KOTAK MAHINDRA BANK
- Branch Name: RVCE Campus, Bengaluru
- IFSC Code: KKBK0008053
- SWIFT Code: KKBKINBB

PRICING DETAILS

Indian (Amount in INR ₹)/ Foreign Authors and Delegates (amount in USD \$)

Particulars	Early Bird (On or before 15 September)		Regular Registration (From 16Sep to 6 Oct 2023)	
	IEEE	Non-IEEE	IEEE	Non-IEEE
Students/ Research Scholars	₹ 4000/\$ 75	₹ 5000/ \$ 100	₹ 5000/ \$ 100	₹ 6500/ \$ 130
Academicians	₹ 5000/\$ 90	₹ 6000/ \$ 120	₹ 6000/ \$ 125	₹ 8000/ \$ 160
Industry Professionals	₹ 6000/ \$ 100	₹ 7000/ \$ 125	₹ 10000/ \$ 200	₹ 13500/ \$ 240

Pre Conference Tutorial : ₹ 500/\$ 25

(*ALL THE PRICING DETAILS MENTIONED ABOVE ARE INCLUSIVE OF 18% GST)

IMPORTANT DATES

Submission of Full-length Manuscript (opens from):	26th June 2023
Last date to submit Full-length Manuscript:	5th August 2023
Notification of Acceptance:	12th September 2023
Early Bird Registration (on or before) :	18th September 2023
Submission of Camera-ready Manuscript and Copyright form:	24th September 2023
Last Date for Registration:	6th October 2023
Pre-Conference Tutorial:	2nd November 2023
Conference Dates:	2nd-4th November 2023

CHIEF PATRON

- Dr. M P Shyam, President, RSST

PATRONS

- Sri. K G Subbarama Setty, Hon. Treasurer, RSST
- Dr. A V S Murthy, Hon. Secretary, RSST
- Sri. D P Nagaraj, Hon. Joint Secretary, RSST

**ADVISORY
COMMITTEE**

- Dr. K N Subramanya, Principal, RVCE
- Dr. S.S. Iyengar, Director of Computer Science, FIU, USA
- Dr. K S Geetha, Vice Principal, RVCE
- Dr. N Shanmukha, Professor and Dean Academics, Dept. of ME, RVCE
- Dr. Panduranga Vittal K, Professor, Dept. of EEE, NITK, Surathkal
- Dr. Deepa Shenoy, Advisor Technical & conference committee, IEEE Bangalore section
- Dr. Vinod Rajamani, Professor, University of Dortmund
- Dr. Chandra Shekhar Atla, Chair, IEEE PES Bangalore Chapter
- Dr. Uma Mohan, Director - Doctoral programmes, LSC, UK
- Dr. Sachin R Rondiya, Asst. Professor, Dept. of Materials Engineering, IISC, Bangalore.
- Dr. M V Reddy, Nouveau Monde Graphite, Montreal, QC, Canada.
- Mr. Srikanth Kashyap S, Chief Technical Officer, JVS ELECTRONICS PVT. LTD.
- Dr. Gurunath Gurralla, Assoc.Prof., Dept.of. EECS, IISC, Bengaluru.

**ORGANISING
COMMITTEE**

- Dr. Uma B V, Professor & Dean Student Affairs, Department of ECE, RVCE
- Dr. H V Ravish Aradhya, Professor and Head, Department of ECE, RVCE
- Dr. K Sreelakshmi, Professor and Head, Department of ETE, RVCE
- Dr. C H Renu Madhavi, Professor and Head, Department of EIE, RVCE
- Dr. Ramakanth Kumar P, Professor and Head, Department of CSE, RVCE
- Dr. B M Sagar, Professor and Head, Department of ISE, RVCE
- Dr. Andhe Dharani, Professor and Director MCA, RVCE
- Dr. Sathish Babu B, Professor and Head, Department of AI-ML, RVCE
- Dr. Padmaja K V, Professor, Department of EIE, RVCE
- Dr. Nagaraja G S, Professor, Department of CSE, RVCE
- Dr. Ashok Kumar A R, Assoc. Professor Department of CSE, RVCE
- Mr. Rajesh, Honeywell Pvt. Ltd., Bangalore
- Mr. Chengappa, Secretary, IEEE Bangalore Section
- Mr. H S Hallikeri, Director, Arctictern Pvt. Ltd., Bangalore
- Dr. D Ranganath, Assoc. Professor & Dean (Placement & Training)

GENERAL CHAIR

- Dr. S G Srivani, Professor & Head, Department. of EEE, RVCE

PROGRAM CHAIR

- Dr M N Dinesh, Professor, Department of EEE, RVCE
- Dr. K S Shushrutha, Assoc. Professor, Department of ECE, RVCE
- Mr. Raghavendra Prasad S G, Asst. Professor, Department of ISE, RVCE

TECHNICAL CHAIR

- Dr. Nagamani K, Professor, Department of ETE, RVCE
- Dr. Hemalatha J.N., Assoc. Professor, Department of EEE, RVCE
- Dr. Mahesh A, Assoc. Professor, Department of ECE, RVCE

FINANCE CHAIR

- Dr. Prasanna Kumar S C, Professor, Department of EIE, RVCE
- Dr. Usha Rani K. R, Professor, Department of ECE, RVCE
- Dr. Adinath Jain, Asst.Professor, Department of EEE, RVCE

**PUBLICATION
CHAIR**

- Dr. Usha J, Professor, Department of MCA, RVCE
- Dr. Kariyappa B.S., Professor, Department of ECE, RVCE
- Dr. Madhu B R, Asst. Professor, Department of EEE, RVCE

**SPONSORSHIP
CHAIR**

- Dr. D Ranganath, Assoc. Professor & Dean (Placement & Training)
- Dr. V Chayapathy, Assoc. Professor, Department of EEE, RVCE
- Dr. Kiran V, Assoc. Professor, Department of ECE, RVCE
- Dr. Ajay K M, Asst. Professor, Department of EEE, RVCE

PUBLICITY CHAIR

- Dr. Vinay V Hegde, Assoc.Professor, Department of CSE, RVCE
- Mrs. Raja Vidya, Asst. Professor, Department of EEE, RVCE
- Dr. Kendaganna Swamy. S, Asst.Professor, Department of EIE, RVCE

**WEBSITE
MANAGEMENT**

- Dr. Vijayalakshmi M N, Assoc. Professor, Department of AI-ML, RVCE
- Mrs. C Sunanda, Asst. Professor, Department of EEE, RVCE
- Mrs. Sushmita Sarkar, Asst. Professor, Department of EEE, RVCE

**CONFERENCE
CONVENORS**

- Dr. Abhay Deshpande, Assoc.Professor, Department of ECE, RVCE
- Dr. Abhilash Krishna D G, Asst. Professor, Department of EEE, RVCE
- Dr. Parth Sarathi Panigrahy, Asst. Professor, Department of EEE,RVCE
- Dr. Pandry Narendra Rao, Asst. Professor, Department of EEE, RVCE
- Dr. Vandana Jha, Asst. Professor, Department of EEE, RVCE