



**RV College of
Engineering®**



FIU FLORIDA
INTERNATIONAL
UNIVERSITY

7th IEEE International Conference CSITSS 2023

Conference Record #60515

Computational Systems & Information Technology
for Sustainable Solutions

November 2nd to 4th 2023

*Organised by RV College of Engineering in
association with Florida International University.
Technically Co-Sponsored by IEEE Bangalore section, India*

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) is a prestigious self-financing engineering college established in 1963. It is affiliated with Visvesvaraya Technological University (VTU) Belagavi and operated by Rashtreeya Sikshana Samithi Trust (RSST). RVCE offers 15 Bachelor's and 14 Master's programs with research centers in all departments. The institution's vision emphasizes quality technical education, interdisciplinary research, innovation and sustainable technology.

Recent achievements of RVCE include:

- Ranked 96th in the country by NIRF (2023).
- QS-IGUAGE Diamond University Rating (2021-2024).
- Times Higher Education World University Rankings-2022, ranked 1501+.
- NPTEL (Local Chapter) "AAA" Rating & first in Karnataka.



RVCE has an impressive publication record with over 1500 national and international journal and conference publications. It has filed 62 patents, published 53 patents, and been granted 22 patents. The institution has completed sponsored research and consultancy projects worth ₹16.0 crores in the last three years. Additionally, RVCE has established 8 Centers of Competence and 18 Centers of Excellence in various domains. The students of RVCE have achieved numerous awards and accolades in national and international competitions.

ABOUT THE CONFERENCE

The **7th IEEE 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, research scholars, and students from around the world to share their knowledge and research expertise. The present theme of the conference is **Renewable Energy, Robotics, Computing, Communication, E-mobility, and Embedded Systems (R2C2E2)**. The conference will be held from **November 2nd to 4th, 2023**. The present version of 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.

This conference is jointly organized by the departments of Computer Science Engineering (CSE), Electronics and Communication Engineering (ECE), Electrical and Electronics Engineering (EEE), Electronics and Instrumentation Engineering (EIE), Information Science and Engineering (ISE), Artificial Intelligence and Machine Learning (AIML), and Master of Computer Applications (MCA). It is the seventh successful venture 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 the IEEE digital library.

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](#).

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](#).

CONFERENCE TRACKS

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
- Multimedia 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
- Blockchain
- 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 link will be provided shortly 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, India
- IFSC Code: KKBK0008053
- SWIFT Code: KKBKINBB

REGISTRATION AMOUNT

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

Particulars	Early Bird (On or before 18 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.(h.c.) 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, Prof. & 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, Bangalore

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. M Uttara Kumari, Professor, Department of ECE, 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



Go, change the world[®]

Click here for useful links

RV College of Engineering, RV Vidyaniketan Post, 8th mile,
Mysuru Road, Bengaluru-560059

www.rvce.edu.in