



Fifth International Conference on Computing and Network
Communications (CoCoNet'23)



ACN'23

Sixth International Conference on Applied Soft Computing and
Communication Networks (ACN'23)

December 18-20, 2023, Bangalore, India

CONFERENCE PROGRAM

Organized by



Technically Supported by

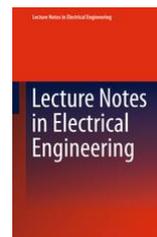


Venue: PES University, Bangalore

Program Link: <https://edas.info/p31041>

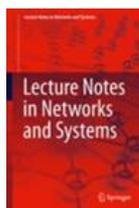
<https://coconet-conference.org/2023/>

<https://acn-conference.org/2023/>



Co-affiliated Symposiums

- 10th Symposium on Control, Automation, Industrial Informatics and Smart Grid (ICAIS'23)
- 10th Symposium on Natural Language Processing (NLP'23)
- 5th Symposium on Recent Advances in Communication Theory, Information Theory, Antennas and Propagation (CIAP'23)
- 6th Symposium on Advances in Applied Informatics (SAI'23)
- 9th International Symposium on Women in Computing and Informatics (WCI'23)
- 9th Symposium on Computer Vision and the Internet (VisionNet'23)
- Symposium on Emerging Topics in Computing and Communications (SETCAC'23)
- Symposium on VLSI Design and Embedded Computing (VDEC'23)



Co-located/Co-affiliated Events @ACN'23

- Eighth International Symposium on Intelligent Informatics (ISI'23)
 - Workshop on Computational Intelligence Systems and Applications (CISA-2023)
- 7th International Symposium on Intelligent Systems Technologies and Applications (ISTA'23)
 - Workshop on Advances in Computer Vision, Pattern Recognition, Machine Learning and Symmetry (CVPRLMS-2023)
- 9th International Symposium on Security in Computing and Communications (SSCC'23)
- 7th International Symposium on Signal Processing and Intelligent Recognition Systems (SIRS'23)



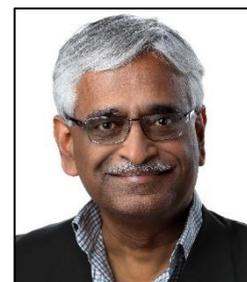
Authors by Country (All Papers, Source: EDAS): Australia, Brazil, Burkina Faso, China, Cyprus, Denmark, Ethiopia, Finland, France, Germany, India, Indonesia, Iraq, Ireland, Italy, Jordan, Kazakhstan, Libya, Luxembourg, Malaysia, Nepal, Nicaragua, Oman, Poland, Romania, Russia, Saudi Arabia, Singapore, South Africa, Sri Lanka, Taiwan, Thailand, Tunisia, Turkey, Ukraine, United Arab Emirates, United Kingdom, USA, Vietnam

Journal Special Issues

- Journal of Intelligent and Fuzzy Systems (JIFS), IOS Press, Netherlands (SCI Impact Factor: 2)
- Connection Science, Taylor & Francis Online (SCI Impact Factor: 5.3)

Keynote Speakers

Dr. C. Mohan, *Distinguished Visiting Professor, Tsinghua University, China*



Dr. RangaRao Venkatesha Prasad, *Faculty of Engineering, Mathematics and Computer Science (EWI), Delft University of Technology (TU Delft), The Netherlands*



Dr. Sanjay K Madria, *Curators' Distinguished Professor, Dept. of Computer Science, Missouri University of Science and Technology, Rolla, USA*



Dr. Vishwas Lakkundi, *Data Protection Officer, Smarten Spaces, Bangalore, India*



Dr. S. R. Mahadeva Prasanna, *Professor, Dept. of Electrical Engineering, Indian Institute of Technology Dharwad, India*



Dr. Sri Krishnan, *Professor of Electrical, Computer Engineering, and Biomedical Engineering Metropolitan University, Toronto, Canada*



Tutorials

Dr. Abdullah Uz Tansel, *Professor, Baruch College and The Graduate Center, City University of New York, USA*

Title: *Blockchain as a Database, Communication Networks and Web 3.0 (90 minutes)*



Dr. Nithin Nagaraj, *Associate Professor, Consciousness Studies Programme, National Institute of Advanced Studies, Indian Institute of Science Campus, Bengaluru*

Title: *Brain-Inspired Computing, Communication and Machine Learning (90 minutes)*



Dr. Amitava Mukherjee, *Professor, School of Computing, Amrita Vishwa Vidyapeetham (University), Kollam, Courtesy Professor, College of Nano Science and Engineering, University at Albany, USA*

Title: *5G IoT Implementation and Management: From the Edge to the Cloud in Industry 4.0 (90 minutes)*



Dr Vishnu Srivastava, *Ex Emeritus Scientist (CSIR) and Emeritus Professor (Ac-SIR), CSIR-Central Electronics Engineering Research Institute, Pilani, India*

Title: *THz Technology for 6G Communication Network (60minutes)*



Dr. H. L. Shashirekha, Asha Hegde, *Mangalore University, India*

Title: *Word-level Language Identification in Code-mixed Dravidian Languages (90 minutes)*



Karthik Sivarama Krishnan, *Senior AI Software Engineer (Research), Gen Nine Inc, USA*

Title: *Countering Audio Deepfakes: Introduction to Multi-Feature Audio Authenticity Network (MFAAN) (90 minutes)*



Dr. Jaya Dofe, *Dept. of Electrical and Computer Engineering, California State University, Fullerton, California, USA*

Title: *Securing the Vertical Frontier: Advancing Hardware Security through 3D Integration (60 minutes)*



Conference Highlights

- Keynote Talks
- Parallel Technical Sessions
- Best Paper Sessions
- Best Paper Awards
- Invited Talks
- Tutorials
- Symposiums & Workshops
- Panel Discussions
- Start-up Expo
- Lightning Talks
- Hot off the Press
- Hands-on Sessions

Cultural Events followed by Banquet Dinner

December 19, 2023, 6.30 PM

Venue: PES University

GOLD SPONSOR



Hands-on Session: Deep learning approach for intelligent malware detection system (December 19, 2023, 4.30 pm - 5.30 pm)

Dr. Vinayakumar Ravi, Center for Artificial Intelligence, Prince Mohammad Bin Fahd University, Khobar, Saudi Arabia



Program at a Glance

December 18, 2023 (Monday)	
9:00 - 11:00	Registration
9:30 - 10:30	Conference Inauguration GJBC Auditorium
10:30 -11:00	Break
11:00 – 12:00	Keynote: <i>Efficient Revocation in Attribute-based Encryption Scheme for Secure Data Sharing in Cloud</i> Speaker: Dr. Sanjay K Madria , Curators' Distinguished Professor, Department of Computer Science, Missouri University of Science and Technology, Rolla, MO 65409, USA GJBC Auditorium
12:00 - 13:00	Keynote: <i>Taking IoT to the Extreme</i> Speaker: Dr. RangaRao Venkatesha Prasad , Faculty of Engineering, Mathematics and Computer Science (EWI), Delft University of Technology (TU Delft), The Netherlands GJBC Auditorium
13:00 – 13:45	Lunch Break
13:45 - 15:15	Tutorial: <i>Blockchain as a Database, Communication Networks and Web 3.0</i> Speaker: Dr. Abdullah Uz Tansel , Professor, Baruch College and The Graduate Center, City University of New York, USA Be block-6th floor Seminar Hall
13:45 - 15:15	Tutorial: <i>Securing the Vertical Frontier: Advancing Hardware Security through 3D Integration</i> Speaker: Dr. Jaya Dofe , Assistant Professor, Dept. of Electrical and Computer Engineering, California State University, Fullerton, California, USA Be block-7th floor Seminar Hall
Parallel Technical Sessions	
15:20 - 18:15	ACN-01: International Conference on Applied Soft Computing and Communication Networks B-606
	CoCoNet-S0A: Network Communications B-611
	CoCoNet-S1: Image and Signal Processing/Machine Learning/Pattern Recognition B-702
	ISTA-01: Selected Papers: Seventh International Symposium on Intelligent Systems Technologies and Applications (ISTA'23) B-711
	ISTA-02: Intelligent Image Processing and Artificial Vision (Seventh International Symposium on Intelligent Systems Technologies and Applications) B-712
	ISI-01: 8th International Symposium on Intelligent Informatics (ISI'23) B-608
	SIRS-01: 7th International Symposium on Signal Processing and Intelligent Recognition Systems B-607
	SSCC: 9th International Symposium on Security in Computing and Communications B-706
	CoCoNet'23/ACN'23 Special Session-A B-602
15.00 – 18: 00	Start-up Expo: Featuring Cutting-Edge Products Be block-6th floor
15:30 - 18:00	Lightning Talks

December 19, 2023 (Tuesday)	
09:00 - 10:00	Tutorial (Online): <i>Countering Audio Deepfakes: Introduction to Multi-Feature Audio Authenticity Network</i> Speaker: Karthik Sivarama Krishnan , Senior AI Software Engineer (Research), Gen Nine Inc, USA GJBC Auditorium
10:00 - 11:00	Keynote: <i>Artificial Intelligence (AI): Past, Present and Future</i> Speaker: Dr. C. Mohan , Distinguished Visiting Professor, Tsinghua University, China GJBC Auditorium
11:00 - 11:20	Break
11:20 - 12:10	Industry Keynote 1: <i>Enterprise IoT: Security & Device Management</i> Speaker: Dr. Vishwas Lakkundi , Data Protection Officer, Smarten Spaces, Bangalore, India GJBC Auditorium
12:10 - 13:00	Industry Keynote 2: <i>Equipment Intelligence in Wafer Fabrication Equipment (WFE)</i> Speaker: Mrinal Kumar , Staff Systems Engineer, Lam India, Bangalore, India GJBC Auditorium
13:00 - 13:50	Lunch Break
13:50 - 15:20	Tutorial: <i>Brain-Inspired Computing, Communication and Machine Learning</i> Speaker: Dr. Nithin Nagaraj , Associate Professor, Consciousness Studies Programme, National Institute of Advanced Studies, Indian Institute of Science Campus, Bengaluru Be block-6th floor Seminar Hall
13:50 - 15:20	Tutorial: <i>5G IoT Implementation and Management: From the Edge to the Cloud in Industry 4.0</i> Speaker: Dr. Amitava Mukherjee , Professor, School of Computing, Amrita Vishwa Vidyapeetham (University), Kollam, Courtesy Professor, College of Nano Science and Engineering, University at Albany, USA Be block-7th floor Seminar Hall
Parallel Technical Sessions	
15:30 - 17:45	CoCoNet-S3: 9th International Symposium on Computer Vision and the Internet (VisionNet'23) /10th Symposium on Natural Language Processing (NLP'23) B-702
	CoCoNet-S4: Symposium on Emerging Topics in Computing and Communications (SETCAC'23) B-706
	CoCoNet-S0B: Network Communications B-611
	ACN-02: International Conference on Applied Soft Computing and Communication Networks B-606
	CoCoNet-S5: Image and Signal Processing/Machine Learning/Pattern Recognition B-707
	CoCoNet-S6: 6th Symposium on Advances in Applied Informatics (SAI'23) B-612
	CoCoNet-S7: Internet of Things/Assistive Technologies/Cyber Security B-602
	ISTA-03: Intelligent Tools and Techniques (7th International Symposium on Intelligent Systems Technologies and Applications) B-711
	ISTA-04: Applications using Intelligent Techniques (Seventh International Symposium on Intelligent Systems Technologies and Applications) B-712
	ISI-02: 8th International Symposium on Intelligent Informatics (ISI'23) B-608
	SIRS-02: 7h International Symposium on Signal Processing and Intelligent Recognition Systems B-607
15:00 - 18:00	Start-up Expo: Featuring Cutting-Edge Products Be block-6th floor
16:30 - 18:00	Lightning Talks Be block-6th floor Seminar Hall
16:30 - 17:30	Hands-on Session: <i>Deep learning approach for intelligent malware detection system</i> Dr. Vinayakumar Ravi , Center for AI, Prince Mohammad Bin Fahd University, Khobar, Saudi Arabia B-505(lab)
18:00 - 20:00	Cultural Events followed by Banquet Dinner TDM Studio

December 20, 2023 (Wednesday)	
9:30 - 10:30	<p>Keynote: <i>Nonlinear Speech Processing by Deep Learning</i></p> <p>Speaker: Dr. S. R. Mahadeva Prasanna, Professor, Dept. of Electrical Engineering, Indian Institute of Technology Dharwad, India</p> <p style="text-align: right;">GJBC Auditorium</p>
10:30 – 11:00	Break
11:00 – 12:00	<p>Keynote: <i>Biomedical Signal Analysis and Digital Health (online)</i></p> <p>Dr. Sri Krishnan, Professor of Electrical, Computer Engineering, and Biomedical Engineering, Toronto Metropolitan University, Toronto, Canada</p> <p style="text-align: right;">GJBC Auditorium</p>
12:00 - 13:15	<p>Tutorial: <i>THz Technology for 6G Communication Network</i></p> <p>Speaker: Dr. Vishnu Srivastava, Ex Emeritus Scientist (CSIR) and Emeritus Professor (Ac-SIR), CSIR-Central Electronics Engineering Research Institute, Pilani, India</p> <p style="text-align: right;">GJBC Auditorium</p>
13:15 - 14:00	Lunch Break
14:00 – 15:30	<p>Tutorial: <i>Word-level Language Identification in Code-mixed Dravidian Languages</i></p> <p>Speakers: Dr. H. L. Shashirekha, Asha Hegde, Mangalore University, India</p> <p style="text-align: right;">Be block-6th floor Seminar Hall</p>
Parallel Technical Sessions	
14:00 - 17:00	CoCoNet-S8: 9th International Symposium on Women in Computing and Informatics (WCI'23) B-702
	CoCoNet-S9: 9th International Symposium on Women in Computing and Informatics (WCI'23) B-706
	CoCoNet-S10: Symposium on VLSI Design and Embedded Computing (VDEC'23)/ 10th Symposium on Control, Automation, Industrial Informatics and Smart Grid (ICAIS'23) B-707
	CoCoNet-S11: 5th Symposium on Recent Advances in Communication Theory, Information Theory, Antennas and Propagation (CIAP'23) B-612
	ISTA-05: Networked Systems and Security (Seventh International Symposium on Intelligent Systems Technologies and Applications) B-711
	ISTA-06: ISTA Workshop on Advances in Computer Vision, Pattern Recognition, Machine Learning and Symmetry (CVPRMLS-2023) B-712
	ISI-03: 8th International Symposium on Intelligent Informatics (ISI'23) B-608
	CoCoNet'23/ACN'23 Special Session-B B-602
16:00 – 17:00	<p>Hot off the Press</p> <p style="text-align: right;">Be block-6th floor Seminar Hall</p>
17:00 - 17:40	<p>WCI Panel Discussion (<i>Empowering Women in AI: Navigating the Path to Progress and Innovation</i>)</p> <p style="text-align: right;">GJBC Auditorium</p>
17:40 – 18:30	<p>Valedictory Function</p> <p style="text-align: right;">GJBC Auditorium</p>
	High Tea

INSTRUCTIONS TO THE PRESENTERS

ORAL PRESENTATIONS

- All delegates are required to bring a printout of the Order received from Explara (as mentioned in the registration email) along with a photocopy of a valid ID card. The QR Code will be scanned to issue the registration kit.
- Most presentations are scheduled for a maximum duration of 15-20 minutes, which includes time for Q&A.
- Presentations must be in electronic formats such as PowerPoint or PDF only.
- A laptop and projector will be provided in all conference rooms for presenters' use.
- Presenters are requested to arrive at the room at least 10 minutes prior to the session's start and introduce themselves to the session chair. Please sign the register after presenting your paper.
- A speaker rehearsal room will be available for presenters who wish to rehearse their presentations.

YOUR SLIDES

- For a 15-minute presentation, aim for a maximum of 12-15 PowerPoint slides, including the introduction and conclusion.
- Ensure consistent slide layout throughout the presentation.
- Avoid overly detailed content on each slide.
- Use animations moderately; refrain from excessive use.
- Prefer graphs, figures, and flow charts over tables for oral presentations.
- If including videos or interactive materials, embed them within the presentation file (avoid internet access during the presentation). Kindly inform the Conference Office in advance.

Conference Venue

PES University, 100 Feet Ring Road BSK III Stage, Bangalore – 560085



Google Map: PES University



