



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

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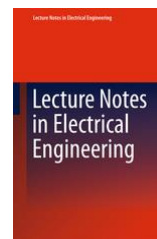


Venue: PES University, Bangalore

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

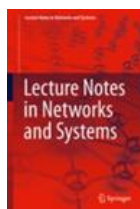
<https://coconet-conference.org/2023/>

<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)



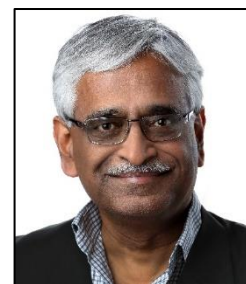
Authors by Country (All Papers, Source: EDAS): Australia, Brazil, Burkina Faso, China, Cyprus, Denmark, Ethiopia, Finland, France, Germany, India, Indonesia, Iraq, Ireland, Italy, Jordan, Kazakhstan, Libya, Luxembourg, Malaysia, Nepal, Nicaragua, Oman, Poland, Romania, Russia, Saudi Arabia, Singapore, 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

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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
10:30 -11:00	Break
11:00 – 12:00	<p>Keynote: <i>Efficient Revocation in Attribute-based Encryption Scheme for Secure Data Sharing in Cloud</i></p> <p>Speaker: Dr. Sanjay K Madria, Curators' Distinguished Professor, Department of Computer Science, Missouri University of Science and Technology, Rolla, MO 65409, USA</p>
12:00 - 13:00	<p>Keynote: <i>Taking IoT to the Extreme</i></p> <p>Speaker: Dr. RangaRao Venkatesha Prasad, Faculty of Engineering, Mathematics and Computer Science (EWI), Delft University of Technology (TU Delft), The Netherlands</p>
13:00 – 13:45	Lunch Break
13:45 - 15:15	<p>Tutorial: <i>Blockchain as a Database, Communication Networks and Web 3.0</i></p> <p>Speaker: Dr. Abdullah Uz Tansel, Professor, Baruch College and The Graduate Center, City University of New York, USA</p>
13:45 - 15:15	<p>Tutorial: <i>Securing the Vertical Frontier: Advancing Hardware Security through 3D Integration</i></p> <p>Speaker: Dr. Jaya Dofe, Assistant Professor, Dept. of Electrical and Computer Engineering, California State University, Fullerton, California, USA</p>
Parallel Technical Sessions	
15:20 - 18:15	ACN-01: International Conference on Applied Soft Computing and Communication Networks
	CoCoNet-S0A: Network Communications
	CoCoNet-S1: Image and Signal Processing/Machine Learning/Pattern Recognition
	ISTA-01: Selected Papers: Seventh International Symposium on Intelligent Systems Technologies and Applications (ISTA'23)
	ISTA-02: Intelligent Image Processing and Artificial Vision (Seventh International Symposium on Intelligent Systems Technologies and Applications)
	ISI-01: 8th International Symposium on Intelligent Informatics (ISI'23)
	SIRS-01: 7th International Symposium on Signal Processing and Intelligent Recognition Systems
	SSCC: 9th International Symposium on Security in Computing and Communications
	CoCoNet'23/ACN'23 Special Session-A
15:00 – 18: 00	Start-up Expo: Featuring Cutting-Edge Products
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
10:00 - 11:00	Keynote: <i>Artificial Intelligence (AI): Past, Present and Future</i> Speaker: Dr. C. Mohan , Distinguished Visiting Professor, Tsinghua University, China
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
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
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
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
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)
	CoCoNet-S4: Symposium on Emerging Topics in Computing and Communications (SETCAC'23)
	CoCoNet-S0B: Network Communications
	ACN-02: International Conference on Applied Soft Computing and Communication Networks
	CoCoNet-S5: Image and Signal Processing/Machine Learning/Pattern Recognition
	CoCoNet-S6: 6th Symposium on Advances in Applied Informatics (SAI'23)
	CoCoNet-S7: Internet of Things/Assistive Technologies/Cyber Security
	ISTA-03: Intelligent Tools and Techniques (7th International Symposium on Intelligent Systems Technologies and Applications)
	ISTA-04: Applications using Intelligent Techniques (Seventh International Symposium on Intelligent Systems Technologies and Applications)
	ISI-02: 8th International Symposium on Intelligent Informatics (ISI'23)
	SIRS-02: 7h International Symposium on Signal Processing and Intelligent Recognition Systems
	CoCoNet'23/ACN'23 - Special Session C
15:00 - 18:00	Start-up Expo: Featuring Cutting-Edge Products
16:30 - 18:00	Lightning Talks
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
18:00 - 20:00	Cultural Events followed by Banquet Dinner

December 20, 2023 (Wednesday)

9:30 - 10:30	Keynote: <i>Nonlinear Speech Processing by Deep Learning</i> Speaker: Dr. S. R. Mahadeva Prasanna, Professor, Dept. of Electrical Engineering, Indian Institute of Technology Dharwad, India
10:30 – 11:00	Break
11:00 – 12:00	Keynote: <i>Biomedical Signal Analysis and Digital Health (online)</i> Dr. Sri Krishnan , Professor of Electrical, Computer Engineering, and Biomedical Engineering, Toronto Metropolitan University, Toronto, Canada
12:00 - 13:15	Tutorial: <i>THz Technology for 6G Communication Network</i> Speaker: Dr. Vishnu Srivastava, Ex Emeritus Scientist (CSIR) and Emeritus Professor (Ac-SIR), CSIR-Central Electronics Engineering Research Institute, Pilani, India
13:15 - 14:00	Lunch Break
14:00 – 15: 30	Tutorial: <i>Word-level Language Identification in Code-mixed Dravidian Languages</i> Speakers: Dr. H. L. Shashirekha, Asha Hegde, Mangalore University, India
14:00 – 15: 30	Tutorial: <i>Demystifying DNS Abuses - Tunneling and DDoS Amplification techniques and mitigations</i> Speakers: Dr. Sanjay Adiwal, Centre for Development of Advanced Computing (C-DAC), Bangalore
Parallel Technical Sessions	
14:00 - 17:00	CoCoNet-S8: 9th International Symposium on Women in Computing and Informatics (WCI'23)
	CoCoNet-S9: 9th International Symposium on Women in Computing and Informatics (WCI'23)
	CoCoNet-S10: Symposium on VLSI Design and Embedded Computing (VDEC'23)/ 10th Symposium on Control, Automation, Industrial Informatics and Smart Grid (ICAIS'23)
	CoCoNet-S11: 5th Symposium on Recent Advances in Communication Theory, Information Theory, Antennas and Propagation (CIAP'23)
	ISTA-05: ISTA Workshop on Advances in Computer Vision, Pattern Recognition, Machine Learning and Symmetry (CVPRMLS-2023)
	ISI-03: 8th International Symposium on Intelligent Informatics (ISI'23)
	CoCoNet'23/ACN'23 Special Session-B
	CoCoNet'23/ACN'23: Special Session D
16:00 – 17:00	Hot off the Press
17:00 - 17:40	WCI Panel Discussion (<i>Empowering Women in AI: Navigating the Path to Progress and Innovation</i>)
17:40 – 18:30	Valedictory Function
	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

