



KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY

(Autonomous)

Tholurpatti Post, Thottiam Taluk, Trichy- 621215, Tamilnadu

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6th International Conference on Smart Electronics and Communication (ICOSEC 2025)



Organized By

KONGUNADU COLLEGE OF ENGINEERING AND TECHNOLOGY
STUDENT BRANCH CODE STB03237

24 - 26, September 2025

Kongunadu College of Engineering and Technology in association with IEEE organized a “**6th International Conference on Smart Electronics and Communication (ICOSEC 2025)**” at Kongunadu College of Engineering and Technology (Autonomous), Thottiam, Trichy, Tamilnadu, from 24-26, September 2025. ICOSEC 2025 conference has established itself as a worldwide reference for the dissemination of high-quality research in all aspects of Electrical, Information and Communication Engineering for fostering interaction and exchange of ideas.

6th International Conference on Smart Electronics and Communication (ICOSEC 2025)

24-26, September 2025

Trichy, Tamil Nadu, India.



IEEE XPLORE COMPLIANT ISBN: 979-8-3315-9859-4

IEEE DVD ISBN: 979-8-3315-9858-7



Kongunadu College of Engineering and Technology

ICOSEC 2025 received total of 1610 papers. Out of 1610, only 340 papers were accepted in this conference. The conference acceptance rate is less than 25%. The members of the Technical Program Committee worked efficiently and responsibly under tight time constraints to produce at least three reviews for each paper that provided the basis for the final paper selection. To allow the conference participants to benefit from further worthwhile and stimulating research results, 340 papers was accepted for presentation co-located with the main conference.

The program is further enriched by keynote presentation offered by Dr. D. Nirmal, Associate Dean Engineering and Technology, Karunya Institute of Technology and Sciences, Tamil Nadu, India. All the accepted and presented papers in the conference will be published in IEEE Xplore.

INAUGURATION

The International Conference was started by an inaugural function on September 24th, 2025. The welcome address was delivered by Dr.R.Asokan, Principal, KNCET and Conference report was delivered by Dr.J.Yogapriya, Dean (R&D), KNCET. Felicitation address delivered by Dr.J.Preetha, Dean (Academics). Dr.PSK.R.Periaswamy, Chairman, Kongunadu Educational Institutions presided over the function.

KEY NOTE ADDRESS

The Chief Guest for the function was Dr. D. Nirmal, Associate Dean Engineering and Technology, Karunya Institute of Technology and Sciences, Tamil Nadu, India.



Conference Report Delivered by Dr.J.Yogapriya



Keynote address presented by Dr. D. Nirmal

Seethvasan SR (Presenting)

THE 6th INTERNATIONAL CONFERENCE ON SMART ELECTRONICS AND COMMUNICATION

Paper Id : ICOSEC0393

Automated Forensic Data Acquisition and Analysis for SaaS/PaaS Platforms: A Survey of Tool-Based Cybersecurity Approaches

S. R. Seethvasan	Dr. D. Prem Raja
Research Scholar	Associate Professor
Department of Computer Applications	Department of Information Technology
Kalasalingam Academy of Research and Education	Kalasalingam Academy of Research and Education
Tamil Nadu	Tamil Nadu

September 24, 2025

10:21 AM | ur-84q-aww

ICOSEC 2025 Paper Presentation on 24th September 2025

Meet - drq-ngmz-snh

meet.google.com/drq-ngmz-snh

Orish Nalk (Presenting)

Significance of Blockchain Technology in Education

Blockchain offers plethora of advantages to academic landscape:

- immutable records of academic achievements, ensuring secure storage and verification of credentials
- enables transparent, decentralized systems for certification, fostering trust, eliminating fraud
- facilitates efficient and instant verification of qualifications streamlining processes for educational institutions, employers, and learners.
- enables checking ownership and proof of ownership
- consensus algorithms prevent data hacking with 50% consensus.
- digital signature, hashing cryptographic primitives preserve security.

10:43 AM | drq-ngmz-snh

ICOSEC 2025 Paper Presentation on 24th September 2025

Dr. S. P. Santhoshkumar (Presenting)

Literature Review (Contd.,)

Author(s)	Proposed System/Method	Key Features	Outcomes/Advantages
P. Tumes et al.	YOLOv3-based pedestrian detection in adverse weather	ZUT thermal dataset, CAN bus integration	MAP of 88.1%, dataset publicly available [7]
Krishna et al.	Automated traffic monitoring for speed enforcement	Webular networks, fine grain lane & delivery	94.99%-99.91% accuracy, scalable smart city solution [8]
N. Kittayawanach et al.	YOLOv3 compression for edge devices	APoZ-based pruning, 90% model size reduction	Lower memory & processing needs, v2% accuracy gain [9]
V. P. Koralappa et al.	YOLOv3 on FPGA Spartan 6 LX45	Hardware acceleration, low power usage	Faster processing, ~50% lower power consumption [10]
Y. Lee et al.	YOLOv3 speed optimization for vending machines	Focused region detection, reduced computational load	3.29x faster, minimal accuracy drop (2.31%) [11]

2:04 PM | drq-ngmu-knh

31°C Mostly cloudy 14:04 24-09-2025

ICOSEC 2025 Paper Presentation on 25th September 2025

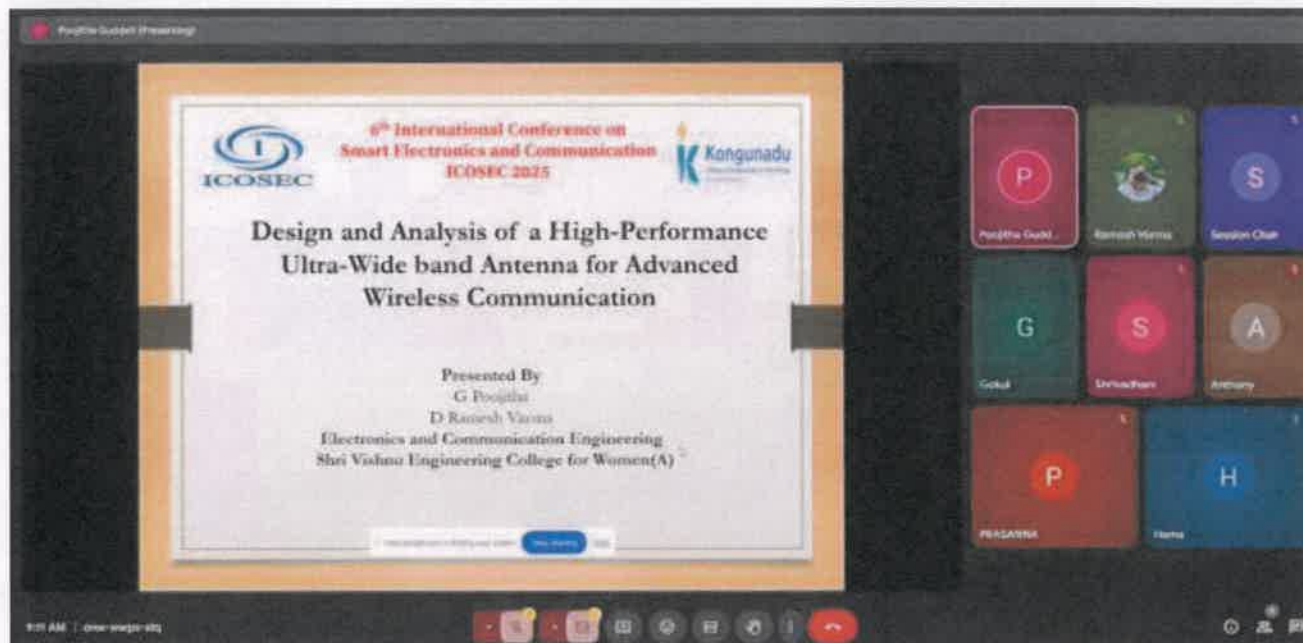
Evaluation of Companding Technique for Signal Integrity

Paper ID : ICOSEC - 0390
 Pooja Anikol, Rahul George Mathew, Noyai Srookanai, Anuraj K. Pooma S S
 Department of Electronics and Communication Engineering
 Anna's Vidya Vidyapeetham, Anna Nagar, India

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9:28 AM | uft-dmq-ony

ICOSEC 2025 Paper Presentation on 25th September 2025



ICOTEC 2025 Paper Presentation on 26th September 2025



ICOTEC 2025 Paper Presentation on 26th September 2025

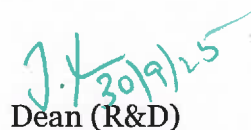
The final ceremony is valedictory, which was addressed by Dr.R.Asokan, Principal, KNCET and he gave guidelines to the participants for writing a research paper. We thank our chief guest, who address about the recent technologies and has given guidelines to organize this conference. We would like to express our sincere thanks to all session chairs to give their valuable comments to participants. We thank our Journal Partner IEEE Xplore who always support us for quality publications.

We are grateful to all authors who trusted us with their work; without them there would be no conference. The final result would not have been possible without the dedication and hard work of many colleagues. The conference ended with vote of thanks given by Dr.J.Yogapriya, Dean R&D, KNCET. She expressed her gratitude towards all the session chairs, participants, organizing committee members and volunteers, which contributed towards the success of the event.

We thank our beloved Chairman, Dr. PSK. R.Periaswamy, Chief Patron of ICOSEC 2025, who always motivate us to do innovative activities for the benefit of students and our dynamic principal, Dr. R. Asokan, for his vision and leadership. Special thanks to Conference Chair, Conference Co-chairs, Organizing Secretaries and Publication Chair, the faculty members and students of KNCET, Technical Program Review Committees and to all external session chairs for the quality and depth of the reviews, and their sense of responsibility and responsiveness under very tight deadlines. We had insightful presentations, discussions, and sharing of technical ideas with colleagues from the nearly colleges. This conference induced innovative ideas among the participants and paved the way for new inventions and new technologies in the field of AIDS, CSE, ECE, EEE & IT. We are sure that this conference will be a milestone in ensuring the highest standards in this profession.



IEEE Co-coordinator
Dr.R.SATHYA, AP/IT
KNCET.



Dean (R&D)



Principal

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