CYBER GAZETTE

NEWS LETTER

AUGUST 2025

DEPARTMENT OF
COMPUTER SCIENCE AND ENGINEERING
(CYBER SECURITY)

School of Engineering

DAYANANDA SAGAR UNIVERSITY

MAIN CAMPUS,
HAROHALLI, KANAKAPURA - 562112

RESEARCH ACCOMPLISHMENTS

SCAM-QUAVs: Side Channel Attacks Mitigation and Countermeasures of Quantum-Safe UAVs

Dr.Durbadal Chattaraj, Dr. G. Hemanth Kumar, Dr. Dilip Kumar Jang Bahadur Saini, Prof. Naveen Kulkarni, Prof. Sharanabasappa Tadkal, and Prof. Ranjima P have successfully authored and presented a paper titled "SCAM-QUAVs: Side Channel Attacks Mitigation and Countermeasures of Quantum-Safe UAVs" in the 11th International Conference on Electronics, Computing and Communication technologies, IEEE CONECCT(July 10-13,2025) organized by IEEE Bangalore section at Sterling's Mac Hotel, Bangalore.







CONECCT'25

NECCT IEEE

2025 IEEE CONECCT

CERTIFICATE

OF PAPER RECOGNITION

This is to certify that

CHATTARAJ, DURBADAL*; HEMANTH KUMAR, G. ; JANG BAHADUR SAINI, DILIP KUMAR; KULKARNI, NAVEEN; TADKAL, SHARANABASAPPA; P, RANJIMA

has successfully authored the paper titled

SCAM-QUAVs: Side Channel Attacks Mitigation and Countermeasures of Quantum-Safe UAVs

in the 11th International Conference on Electronics, Computing and Communication Technologies, **IEEE CONECCT (July 10-13,2025)** organized by IEEE Bangalore section at Sterling's Mac Hotel, Bangalore.

RESEARCH ACCOMPLISHMENTS

Building Data-Driven Edge Systems for Business Success

Dr.Dilip Kumar Jung Bahadur Saini has authored and published a book titled "Building Data-Driven Edge Systems for Business Success" Co-authored by Minakshi (King Khalid University, Saudi Arabia),Tarun Kumar (University of Petroleum and Energy Studies, Dehradun, India), Kapil Joshi (Uttaranchal University, India), Akash Saxena (Compucom Institute of Technology and Management, India)

This comprehensive 478-page publication, released in August 2025, offers valuable insights into leveraging data-driven edge computing solutions for enhancing business performance and innovation.

Publication Details:

·Publisher Copyright: © 2026

·Release Date: August, 2025

·DOI: 10.4018/979-8-3373-1147-0

·ISBN: 9798337311470 (Hardcover) | 9798337311487 (Softcover) | 9798337311494 (eBook)

Verification Link:

Dr. DilipKumar Jang Bahadur Sainihas published his research paper titled " Novel Approach for Identification of Ayurveda Plant Using New Age Technology" in the Proceedings of Fourth International Conference on Computing and Communication Networks ICCCN 2024, Volume 6

RESEARCH ACCOMPLISHMENTS

File carving for Digital Forensics: Moving Beyond Conventional Methods to AI-Powered Solutions

Dr.Devi Priya V S , along with co-authors P.Naresh Nivetha R, Shreyas Rajendra Hole, Mubeen Ahamed Khan, and Tanvir, presented their research paper titled "File carving for Digital Forensics: Moving Beyond Conventional Methods to AI-Powered Solutions" at the Third International Conference on Networks & Advances in Computational Technologies (NetACT 2025). The conference was held from 7th to 9th August 2025, organized by the Department of Computer Science and Engineering, Mar Baselios College of Engineering and Technology, Thiruvananthapuram, in association with IEEE Kerala Section.

RESEARCH ACCOMPLISHMENTS

Gender Classification Based on Machine Learning Models

Dr.Mubeen Ahmed Khan, Prof.Naveen Kulkarni and Prof.Abdul Haq Nalband has collaboratively published their research paper titled "Gender Classification Based on Machine Learning Models" at the 2025 4th O.P. Jindal University International Technology Conference on Smart Computing for Innovation and Advancement in Industry 5.0 (OTCON 2025).

The study explores the use of deep learning algorithms for gender classification in scenarios involving obscured facial features, such as veiled faces, and body posture data. By evaluating models using metrics such as accuracy, precision, recall, and F1-score, the research provides valuable insights into both the potential and limitations of automated gender categorization.This work contributes to advancing fairness and inclusivity in AI-driven decision-making systems.

DOI: 10.1109/OTCON65728.2025.11070606

RESEARCH ACCOMPLISHMENTS

Vulnerabilities and Security Challenges on the Internet of Things Devices

Dr. Dilip Kumar Jang Bahadur Saini has co-authored and published a conference paper titled "Vulnerabilities and Security Challenges on the Internet of Things Devices" in Springer Nature – Innovations in Data Analytics (ICIDA 2024, Lecture Notes in Networks and Systems, Volume 1408).
This paper was co-authored with Rajesh Kumar, Ashwini Biradar, Keshav Kaushik, Amitava Choudhury, and Sagar Kolekar. The work was published online on 22nd August 2025 and appears on pp. 481–508.
Publication Details:
·Release Date: August, 2025
·DOI: 10.1007/978-981-96-6297-5_37
·ISBN: 978-981-96-6296-8 (Print) | 978-981-96-6297-5 (Online)
Verification Link:
Dr. Dilip Kumar Jang Bahadur Saini has published a conference paper titled "Personalized Federated Learning for Privacy-Preserving and Scalable IoT-Driven Smart Healthcare" at the 3rd International Conference on Inventive Computing and Informatics (ICICI),2025 in Bangalore.
Date of Conference: 04-06 June 2025
DOI: 10.1109/ICICI65870.2025.11069877

RESEARCH ACCOMPLISHMENTS

Quantum-Safe Protocols Design for IoT Communications: Critical Observation and Analysis

Dr. Durbadal Chattaraj co-authored and mentored below students from cyber security Mr. Abhishek Paul (ENG21CY0002), Ms. Ananya Kasiraj (ENG22CY3001), Ms. Ananya R (ENG21CY0006),Ms. Bindurani K.P (ENG21CY0010) and successfully presented their research paper titled:

"Quantum-Safe Protocols Design for IoT Communications: Critical Observation and Analysis"

at the XXII Control Instrumentation Systems Conference (CISCON) 2025, technically co-sponsored by IEEE Bangalore Section. The conference was held in hybrid mode on 1st–2nd August 2025, organized by the Department of Instrumentation and Control Engineering, Manipal Institute of Technology, Manipal, Karnataka, India.

MANIPAL ACADEMY OF HIGHER EDUCATION

IEEE BANGALORE SECTION

CISCON

MANIPAL INSTITUTE OF TECHNOLOGY

Certificate of Participation

This to certify that the following authors

Dr. Durbadal Chattaraj, Dayananda Sagar University, Bengaluru
Mr. Abhishek Paul, Dayananda Sagar University, Bengaluru
Ms. Ananya Kasiraj, Dayananda Sagar University, Bengaluru
Ms. Ananya R, Dayananda Sagar University, Bengaluru
Ms. Bindurani KP, Dayananda Sagar University, Bengaluru

have presented a paper with ID **1004** having title **'Quantum-Safe Protocols Design for IoT Communications: Critical Observation and Analysis'** in the hybrid XXII Control Instrumentation Systems Conference (CISCON) 2025, technically co-sponsored by IEEE Bangalore Section, held on August 01-02, 2025, organized by department of Instrumentation and Control Engineering at Manipal Institute of Technology, Manipal, Udupi, Karnataka, India.

Dr. Chinmay Rajhans
Convener
CISCON 2025

Dr. Meenakshi Sundaram S.
HoD, Instrumentation and Control Engg. Dept.,
MIT, Manipal

Cdr. (Dr.) Anil Rana
Director, Manipal Institute of Technology, Manipal

RESEARCH ACCOMPLISHMENTS

SEAT-FA: Automated Sub-domain Enumeration Tool for Security Auditing of Fintech Industries

Dr. Durbadal Chattaraj, along with Mr. Niranjan Hegde and Mr. Shashank B S (ENG21CY0040) has presented a research paper titled:
"SEAT-FA: Automated Sub-domain Enumeration Tool for Security Auditing of Fintech Industries"
at the XXII Control Instrumentation Systems Conference (CISCON) 2025, technically co-sponsored by IEEE Bangalore Section. The conference was held in hybrid mode on 1st–2nd August 2025, organized by the Department of Instrumentation and Control Engineering, Manipal Institute of Technology, Manipal, Karnataka, India.

MANIPAL ACADEMY OF HIGHER EDUCATION
IEEE
CISCON
MANIPAL INSTITUTE OF TECHNOLOGY

Certificate of Participation

This is to certify that the following authors

Mr. Niranjan Hegde, Dayananda Sagar University, Bengaluru
Mr. Shashank B S, Dayananda Sagar University, Bengaluru
Dr. Durbadal Chattaraj, Dayananda Sagar University, Bengaluru

have presented a paper with ID **246** having title "**SEAT-FA: Automated Sub-domain Enumeration Tool for Security Auditing of Fintech Industries**" in the hybrid XXII Control Instrumentation Systems Conference (CISCON) 2025 technically co-sponsored by IEEE Bangalore Section, held on August 01-02, 2025, organized by department of Instrumentation and Control Engineering of Manipal Institute of Technology, Manipal, Udupi, Karnataka, India.

Dr. Chinmay Rajhans
Convener
CISCON 2025

Dr. Meenakshi Sundaram S.
HoD, Instrumentation and Control Engg. Dept., MIT, Manipal

Cdr. (Dr.) Anil Rana
Director, Manipal Institute of Technology, Manipal