AUGUST 2025

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

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
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

FACULTY ACCOMPLISHMENTS

One-Week Faculty Development Programme (FDP) on “Malware Analysis with Data Science”

Prof.Sharanabasappa Tadkal has successfully participated in a One-Week Faculty Development Programme (FDP) on “Malware Analysis with Data Science”, held from June 23 to June 29, 2025.
The FDP was organized by the Electronics and ICT Academy, National Institute of Technology (NIT) Patna, under the aegis of the Ministry of Electronics and Information Technology (MeitY), Government of India. The program was conducted as part of the MeitY’s initiative to build technical capacity through the "Scheme of Financial Assistance for Setting up of Electronics and ICT Academies (Phase-II)".

One-week Faculty Development Programme on
“Malware Analysis with Data Science”
23 June, 2025 – 29 June, 2025

Certificate of Participation

Sharanabasappa Tadkal, Faculty, Dayananda Sagar University, has participated in the one week Faculty Development Program on **“Malware Analysis with Data Science”** organized by Electronics and ICT Academy, NIT Patna under the **“Scheme of financial assistance for setting up of Electronics and ICT Academies (Phase-II)” by the Ministry of Electronics and Information Technology (MeitY), Government of India** from **23rd June, 2025 - 29th June, 2025.** Her/His performance was **Good** based on online Assessment.

Dr. Jyoti Prakash Singh, Coordinator, National Institute of Technology Patna
Dr. Bhaskar Nandal, Coordinator, National Institute of Technology Patna
Prof. M. P. Singh, CEO, ICT Academy, National Institute of Technology Patna

FACULTY ACCOMPLISHMENTS

Reviewer for research papers at the XXII Control Instrumentation Systems Conference (CISCON) 2025

Dr. Durbadal Chattaraj, contributed as a Reviewer for research papers 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
IEEE
CISCON
MANIPAL INSTITUTE OF TECHNOLOGY

Certificate of Appreciation

This to certify that

Durbadal Chattaraj, Dayananda Sagar University

contributed as a reviewer of paper(s) of 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.) Ani Rana
Director, Manipal Institute
of Technology, Manipal

FACULTY ACCOMPLISHMENTS

Five-Day Faculty Development Program (FDP) on "GenAI and Prompt Engineering"

Prof. Sharanabasappa Tadkal has successfully participated in a Five-Day Faculty Development Program (FDP) on "GenAI and Prompt Engineering" organized by the Department of Computer Science and Engineering, New Horizon College of Engineering, Bangalore.
The FDP was conducted from 28th July to 1st August 2025 and focused on enhancing knowledge and skills in the emerging domains of Generative AI and Prompt Engineering.


NEW HORIZON
COLLEGE OF ENGINEERING
Science and Engineering

CERTIFICATE OF PARTICIPATION

This is to certify that

Dr./Mr./Mrs. Sharanabasappa Tadkal

from Dayananda Sagar University has participated in the Five Days FDP (Faculty Development Program) on GenAI and Prompt Engineering held from the 28th July 2025 to 1st August 2025 at New Horizon College of Engineering, Bangalore.

HoD/CSE | Prof. Sharanabasappa | Principal

STUDENT ACCOMPLISHMENTS

Mr.Saurav Pandey(ENG22CY0039) has successfully completed the eJPT (eLearn Security Junior Penetration Tester) certification, on July 31, 2025, by INE Security.

The eJPT certification validates foundational knowledge and hands-on skills in penetration testing, including network security, information gathering, vulnerability assessment, exploitation, and basic post-exploitation techniques..

STUDENT ACCOMPLISHMENTS

Mr.Manov Rathod(ENG23CY0025) has successfully completed the eJPT (eLearn Security Junior Penetration Tester) certification, on August 1, 2025, by INE Security.

The eJPT certification validates foundational knowledge and hands-on skills in penetration testing, including network security, information gathering, vulnerability assessment, exploitation, and basic post-exploitation techniques.

STUDENT ACCOMPLISHMENTS

Ms. R K Gowri Priya(ENG23CY0034) has successfully completed a continuing education course in Digital Forensics Basics, offered by Cybrary.

This certification, awarded on August 3, 2025, recognizes her completion of a 2-hour training program and achievement of 1 CEU/CPE credit. The course focused on foundational principles of digital forensics—an essential discipline for identifying, preserving, analyzing, and presenting digital evidence in cybersecurity and cybercrime investigations.

STUDENT ACCOMPLISHMENTS

Mr.Aman Nayan(ENG23CY0004) has successfully completed the Blue Team Junior Analyst training pathway offered by Security Blue Team on August 6, 2025.

This certification validates comprehensive entry-level expertise and practical skills in critical areas of cybersecurity, including:

- Open-Source Intelligence (OSINT)
- Digital Forensics
- Vulnerability Management
- Dark Web Operations
- Threat Hunting
- Network Analysis