

CHITKARA
UNIVERSITY



8th World Engineering Conference on Contemporary TechnologiesTM

WECONTM 2025

Theme ♦ NextGen Sustainable Technologies

 **October 10 - 11**

CONFERENCE COMPENDIUM

Organized by

Department of Electronics & Communication Engineering
Chitkara University, Punjab, India

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WECON™ 2025

8th World Engineering Conference on Contemporary Technologies™

Theme • NextGen Sustainable Technologies

📅 10 - 11 October 2025 📍 Chitkara University, Punjab, India (Hybrid Mode)

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Dr. Sagar Juneja

Convener and Publication Chair, WECON 2025

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About the Organizer – Chitkara University

Established in 1997 by the Chitkara Educational Trust, Chitkara University is a UGC-recognised institution with campuses in Punjab and Himachal Pradesh. It has emerged as a premier centre for higher education, offering undergraduate, postgraduate, and doctoral programs across diverse disciplines, including engineering, management, healthcare, design, hospitality, and applied sciences.

Recognised for academic excellence, Chitkara University holds an NAAC A+ accreditation and features prominently in national and global rankings, including NIRF, QS, and Times Higher Education. Its strong industry-academia collaborations with global leaders like NVIDIA, SAP, Wipro, Infosys, and Dassault Systems ensure a curriculum that is research-driven, application-oriented, and aligned with industry needs. With over 300 international partnerships for student exchanges, research initiatives, and internships, the university provides a global learning experience.

Chitkara University is a leader in career readiness, with over 2,000 recruiters visiting annually and students securing top placements across industries. It fosters innovation and entrepreneurship through dedicated incubation centres, supporting start-ups and leadership development. With cutting-edge infrastructure, modern labs, and a strong emphasis on real-world learning, Chitkara University continues to shape future-ready professionals equipped to excel in a dynamic global landscape.



OVERVIEW OF THE CONFERENCE

Chitkara University has been conducting WECON since 2008, and so far, seven editions of the conference have been conducted. The last edition of the conference was organized in collaboration with Elsevier, and the accepted papers were published in the Materials Today Proceedings. The two editions prior to the last edition, i.e., WECON2018 (6th edition) and WECON2016 (5th edition), were conducted with technical sponsorship from IEEE Delhi Section, and the proceedings of both these editions were published in IEEE Xplore (Scopus indexed). Over the years, WECON has earned a reputation for being one of the best engineering conferences conducted in the North India region.

WECON has been successful in garnering support and endorsement from government institutions like ISRO and DRDO; companies like Texas Instruments, NXP Semiconductors, Applied Materials Inc., IESA, EFY, Elsevier, etc.; and foreign universities like BCIT Canada, Deakin University Australia, George Brown College Canada, Heriot Watt University Malaysia, etc.

For many years, the focus of WECON has only been restricted to the state-of-the-art work in Wireless Networks and Embedded Systems domains. However, today there are many other fascinating technology areas that have been evolving rapidly and are attracting the interest of researchers worldwide. **Therefore, since the last edition, it has been decided to broaden the spectrum of WECON to include more contemporary technology areas in its ambit, and thus today the conference is known as the World Engineering Conference on Contemporary Technologies - WECON.**

WECON 2025 has been the 8th edition of the conference, which has been organized with technical sponsorship from IEEE Delhi Section. All accepted papers upon presentation in the conference shall be sent for IEEE consideration to publish them on IEEE Xplore. The main theme of WECON 2025 is 'NextGen Sustainable Technologies'. Deakin University, Australia and Asia Pacific University of Technology and Innovation, Malaysia are the international academic partners of the conference. While Vardhaman College of Engineering, Hyderabad and Model Institute of Engineering and Technology, Jammu are the national academic partners. TIF-AWaDH (IIT Ropar) and MathWorks are the industry partners for this edition.

THEME OF WECON 2025

The main theme of World Engineering Conference on Contemporary Technologies (WECON 2025) has been the 'NextGen Sustainable Technologies'. The details about the tracks and subtopics in each of the identified track are given below. The conference solicited full paper submission (format free) on the Microsoft Conference Management Toolkit (CMT) portal - <https://cmt3.research.microsoft.com/WECON2025/>.

Track	Topics
Green and Clean Energy	<ul style="list-style-type: none">• Solar and Other Renewable Energy• Efficient Energy Storage Technologies• Decentralized Energy Systems• Net-Zero Carbon Technologies• Electric and Hybrid Vehicles• Waste-to-Energy Systems• Technological solutions for Environment Protection
Smart and Sustainable Cities	<ul style="list-style-type: none">• Smart Grid and Energy Management• Intelligent Transportation Systems• IoT for Urban Monitoring• Communication Networks for Urban Sustainability• Innovative Use of ICT in Smart Cities

Track	Topics
Sustainable Computing	<ul style="list-style-type: none"> • Efficient Data Centres • Role of AI for Environmental Monitoring • Smart Algorithms for Optimization • Energy-Aware VLSI Design and Architectures for Computing • Green Cloud and Edge Computing • Sustainable Blockchain Technologies • Cyber Security in the Digital Age • Ethical Hacking and Digital Forensics
Sustainable Industry Technologies	<ul style="list-style-type: none"> • Precision Agriculture Technologies • Industry 4.0 and Beyond • Smart Manufacturing and Automation • Digital Twin Technologies for Smart Infrastructure • IoT and AI in Healthcare • EdTech for a Sustainable Future
Advanced Materials and Devices	<ul style="list-style-type: none"> • Sustainable Semiconductor Technologies • Energy-Efficient Solid-State Devices • Flexible and Wearable Electronics • Nanomaterials for Green Technologies • Smart Materials for Energy Applications • Biodegradable and Eco-Friendly Electronics



REFLECTIONS FROM THE CORE TEAM

Message from the Chief Patron



Dr. Madhu Chitkara | Pro Chancellor, Chitkara University

It gives me immense pleasure to welcome you to WECON 2025 – the World Engineering Conference on Contemporary Technologies, Chitkara University's flagship and one of the oldest engineering conferences in the region. Since its first edition in 2008, WECON has grown tremendously with contributions from academia, industry, and top-quality research from across the world. With the theme “NextGen Sustainable Technologies,” WECON 2025 reinforces the importance of sustainability, a cause Chitkara University actively champions. I thank IEEE and all our collaborators for their support, and appreciate the core team for their efforts. Best wishes for a successful WECON 2025.

Message from the Patron



Dr. Sandhir Sharma | Vice Chancellor, Chitkara University, Punjab

It is an honour to address you as Patron of WECON 2025, a platform dedicated to ideas that shape a sustainable future. The transition from the Millennium Development Goals (MDGs) to the 17 Sustainable Development Goals (SDGs) reflects humanity's expanding vision for a better world. What truly matters is not just setting goals, but creating impact that brings these aspirations to life. At Chitkara University, we are deeply committed to this purpose. Through initiatives aligned with the SDGs and platforms like WECON, we continue to foster innovation, collaboration, and knowledge sharing that contribute to meaningful global change. My best wishes for a successful and impactful WECON 2025.

Message from the General Chair



Dr. Rajnish Sharma | Vice Chancellor, Chitkara University, Himachal Pradesh

As General Chair of WECON 2025, I take pride in the journey of this conference. What began with a focus on Wireless Networks and Embedded Systems has today evolved into the World Engineering Conference on Contemporary Technologies, showcasing the evolving landscape of technology. Over the years, WECON has earned recognition for the quality of its publications, thanks to a thorough peer-review process and high standards of paper acceptance. This commitment to excellence has enabled us to showcase impactful research from across the world. I sincerely thank the IEEE Delhi Section for their continued support in publications, which has greatly strengthened this conference. I also thank all the stakeholders, including the core committee, advisory committee, technical program cum review committee, local organizing committee, and most importantly, the authors who have contributed their quality work, for making WECON a successful conference over the years. I warmly welcome all participants and wish WECON 2025 great success.

Message from the Technical Program Committee Chair



Dr. Shivani Malhotra | Dean, ECE, CUIET, Chitkara University, Punjab

Over the years, WECON has evolved into a premier global forum, bringing together researchers, academicians, industry leaders, and innovators to share knowledge and shape the future of engineering. This year's theme, "NextGen Sustainable Technologies," focuses on balancing rapid technological growth with sustainability and societal well-being.

The program features paper presentations, keynote addresses, expert talks, workshops, and tutorials by distinguished global experts. Key areas include Green and Clean Energy, Smart and Sustainable Cities, Sustainable Computing, Industry 4.0 Technologies, and Advanced Materials and Devices. WECON 2025 is not only a platform for technical exchange but also a hub for networking and collaboration, ensuring that ideas translate into impactful, real-world solutions. Together, let us build pathways for sustainable engineering innovations that address today's challenges and anticipate tomorrow's needs.

Message from the Publication Chair and Convener



Dr. Sagar Juneja | Associate Director, Research, Chitkara University, Punjab

I am delighted to convey my message for WECON 2025, reflecting on the years I have been fortunate to drive this prestigious conference of Chitkara University. Over this time, I have witnessed its growth and evolution into a platform for sharing high-quality and impactful research. This journey has been made possible thanks to the continued support of our authors, reviewers, and collaborators, whose dedication ensures the integrity and excellence of every edition. WECON's success and reputation for quality stand as a testament to this collective commitment. I extend my best wishes to all delegates for a rewarding WECON 2025.

Message from the Co-Convener



Dr. Harsimran Jit Kaur Randhawa | Professor (ECE), Chitkara University, Punjab

It is my privilege to welcome you to the 8th World Engineering Conference on Contemporary Technologies (WECON 2025), organized by Chitkara University, Punjab, India. Centered on the theme "NextGen Sustainable Technologies," the conference promotes interdisciplinary dialogue across five tracks: Green and Clean Energy, Smart and Sustainable Cities, Sustainable Computing, Sustainable Industry Technologies, and Advanced Materials and Devices. With keynotes, expert talks, workshops, and paper presentations, WECON 2025 provides a distinguished platform for innovation, collaboration, and sustainable technological advancement. I warmly welcome all delegates, presenters, and participants to WECON 2025.

WECON 2025 COMMITTEES

Core Committee

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General Chair	Dr. Rajnish Sharma <i>Vice Chancellor, Chitkara University, Himachal Pradesh</i>
International Collaboration Committee Chair	Dr. Amit Mittal <i>Pro Vice Chancellor, Research Programs, Chitkara University, Punjab</i>
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Publication Chairs	Dr. Imali Dias <i>Senior Lecturer, School of Information Technology, Deakin University, Australia</i> Dr. Sagar Juneja <i>Associate Director, Research, Chitkara University, Punjab, India</i>
Conveners	Dr. Harsimran Jit Kaur <i>Professor, ECE, Chitkara University, Punjab, India</i> Dr. Sagar Juneja <i>Associate Director, Research, Chitkara University, Punjab, India</i>
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Prof. (Dr.) Sneha Kabra <i>Section Secretary & Member-IEEE Delhi Section STDCOM on T & P Act snehakabra@ieee.org</i>
Dr. Ekta Gandotra <i>Member-IEEE Delhi Section STDCOM on T&P Act ekta.gandotra@juitsolan.in</i>

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132	Dr. Sachin Kumar	VBS Purvanchal University, Uttar Pradesh	169	Dr. Vijaylakshmi Sajwan	Shivalik College of Engineering, Dehradun
133	Dr. Sakshi Sharma	Ram Lal Anand College, University of Delhi	170	Dr. Vipin Kumar	G.H. Rasoni University, Amravati, Maharashtra
134	Dr. Sandeep Pande	K L University Vijayawada, Andhra Pradesh	171	Dr. Vishal Pradhan	Kalinga Institute of Industrial Technology, Bhubaneswar
135	Dr. Sandip Patil	SSBT's College of Engineering and Technology, Maharashtra	172	Dr. Vivek Arya	Chandigarh University
136	Dr. Santosh Reddy Addula	University of the Cumberland, United States	173	Dr. Vivek Bhardwaj	Manipal University, Jaipur
137	Dr. Sarabdeep Singh	Model Institute of Engineering and Technology, Jammu	174	Dr. Vivek Upadhyaya	VIT-AP University, Andhra Pradesh
138	Dr. Saurabh Mehta	Vidyalankar Institute of Technology, Mumbai	175	Dr. Wafa Bouras	Msila University
139	Dr. Sergey V. Zykov	GSB, HSE University, Russia	176	Dr. Yaganteeswarudu Akkem	NIT Silchar, Assam
140	Dr. Sesadri U	Vardhaman College of Engineering, Hyderabad			
141	Dr. Shanmugasundaram Hariharan	Vel Tech Rangarajan Dr.Sagunthala R&D Institute of Science and Technology, Chennai			
142	Dr. Shashidhar R	JSS Science and Technology University, Karnataka			
143	Dr. Sheenam Naaz	Sharda University, Greater Noida			

WECON 2025: STATISTICS AND HIGHLIGHTS

8th World Engineering Conference on Contemporary Technologies (WECON 2025) has become the 3rd edition of the WECON series organized with the technical sponsorship of IEEE Delhi section. Notably, WECON 2025 edition has become the 5th IEEE Delhi section technically sponsored conference hosted by Chitkara University.

The conference has been inaugurated with a grand curtain-raiser event followed by a gala dinner at Hotel Holiday Inn, Chandigarh-Zirakpur, Punjab, India. All technical sessions of the conference have been conducted at Chitkara University, Rajpura, Punjab, India. Being a hybrid mode conference, some of the sessions have also been conducted online.

- A total of **287 papers** have been received in WECON 2025 across five tracks.
- With authors from **8 countries** sharing their research, the conference truly reflected an international spirit.
 - o *These countries include India, Indonesia, Malaysia, Iran, USA, Bangladesh, UK, and Saudi Arabia.*
- A total of **176 seasoned researchers and industry practitioners** from different parts of the globe reviewed the submitted papers and provided their expert comments.
- Based on the recommendations of the review committee, **23 papers** were given an acceptance decision and **77 papers** were given a revision decision in the first round.
- At the end of the second round, a total of **56 papers** were accepted for presentation in the conference and publication in the conference proceedings taking the acceptance rate to a mere 20%.
- **48 papers** have registered for the conference and paper presentations have been carried out across 9 sessions in 3 tracks, namely
 - o *AI and Machine Learning in Healthcare*
 - o *Sustainable Data-driven Solutions for Society, Environment and Industry*
 - o *Next-Generation Electronics and Applied Technologies*
- **19 session chairs** from different parts of the globe evaluated the paper presentations that have been conducted over two days and have given their expert comments.
 - o *Based on the recommendations of the session chairs, best paper presentation award has been announced in each session.*
- In addition to the paper presentations, that conference has featured two keynote talks, a panel discussion session, and two expert talks. The industry and academic leaders have been invited to deliver these sessions.

Countries Represented at the Conference

Authors from the following countries submitted their quality work in the conference



INDIA



MALAYSIA



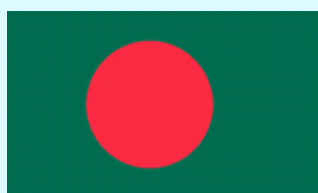
IRAN



INDONESIA



USA



BANGLADESH



UNITED KINGDOM



SAUDI ARABIA

INVITED SPEAKERS AND RESOURCE PERSONS



Dr. Vishal Sipani

*Business Director, Micron India
Research Center, Micron Technology,
Hyderabad, India*



Dr. Dennis Wong

*Provost and Group CEO (ASEAN),
Newcastle University, Singapore*



Dr. Preeti Bajaj

*Chair Elect 2025,
IEEE India Council*



Dr. Perna Gaur

Professor, NSUT, New Delhi



Dr. Ankesh Jain

*Associate Professor, Electrical Engineering
Department, IIT Delhi, New Delhi*



Dr. Angsuman Sarkar

*Professor and Head, ECE, Kalyani
Government Engineering College,
West Bengal*



Dr. Daniel Lai

*Associate Professor
Deakin University, School of Information
Technology, Australia*



Dr. Imali Dias

*Senior Lecturer, School of
Information Technology,
Deakin University, Australia*



Dr. Neelesh Kumar

*Chief Scientist,
Bio-medical Instrumentation,
CSIO Chandigarh*

Session Chairs

Dr. Umesh Kumar Tiwari - CSIO Chandigarh

Dr. Suhaib Ahmed - MIET, Jammu

Dr. Chua KJ Ernest - National University of Singapore

Dr. Sushma Jaiswal - Guru Ghasidas
Central University, Bilaspur

Dr. Adeline Sneha - Asia Pacific University
of Technology & Innovation, Malaysia

Dr. Reza Maghami - Asia Pacific University of
Technology & Innovation, Malaysia

Dr. Rajvir Kaur - NIT Puducherry

Dr. Nikhil Kumar - Kurukshetra University, Haryana

Sathish Krishna - IBM Corporation

Dr. Mohammad Maroof Siddiqui -
Dhofar University, Oman

TECHNICAL PROGRAM OVERVIEW

Day 0: October 9, 2025 - Curtain Raiser and Gala Dinner (Hotel Holiday Inn, Zirakpur)

Timing	Program
6:00 - 6:30 PM	Registration Foyer, Raksha Ballroom 1, Fourth Floor
6:30 - 7:45 PM	Inaugural Ceremony Raksha Ballroom 1, Fourth Floor Introduction and Welcome Dr. Sagar Juneja - Associate Director, Research, Chitkara University, Punjab Publication Chair and Convener, WECON 2025 Lamp Lighting Words of Wisdom by the Chief Patron of WECON Dr. Madhu Chitkara - Pro Chancellor, Chitkara University Welcome and Inaugural Addresses Dr. Shivani Malhotra - Dean, Department of Electronics and Communication Engineering (DECE) Technical Program Committee Chair, WECON 2025 Dr. Rajnish Sharma - Vice Chancellor, Chitkara University, Himachal Pradesh General Chair, WECON 2025 Dr. Sandhir Sharma - Vice Chancellor, Chitkara University, Punjab Patron, WECON 2025 Felicitation Ceremony Unveiling of the Conference Souvenir Vote of Thanks Dr. Harsimran Jit Kaur - Professor, DECE, Chitkara University, Punjab Convener, WECON 2025
7:45 - 9:00 PM	Gala Dinner

Day 1: October 10, 2025 – Chitkara University, Punjab, India

Timing	Program
9:30 - 10:00 AM	Registration and Tea Foyer, Exploreitorium
10:00 AM - 12:00 Noon	Keynotes and Panel Discussion Exploreitorium Delegates are also welcome to join online on ZOOM (Scan QR Code) Keynotes Memory and Storage Solutions: Powering the Next Technological Revolution By: Dr. Vishal Sipani - Business Director, Micron India Research Center, Micron Technology, Hyderabad, India Design and Analysis of Sensor Interface Circuits By: Dr. Ankesh Jain - Associate Professor, Electrical Engineering Department, IIT Delhi, New Delhi Panel Discussion : Developing a Skilled Workforce for India's Semiconductor Ecosystem Panellists: Dr. Sandhir Sharma - Vice Chancellor, Chitkara University, Punjab Dr. Preeti Bajaj - Chair-Elect 2025, IEEE India Council Dr. Prerna Gaur - Professor, Electrical Engineering, Netaji Subhas University of Technology, New Delhi Dr. Angsuman Sarkar - Professor and Head, ECE, Kalyani Government Engineering College, West Bengal Moderator: Dr. Rajnish Sharma - Vice Chancellor, Chitkara University, Himachal Pradesh General Chair, WECON 2025
12:00 Noon - 12:30 PM	High Tea Foyer, Ground Floor, Edison Block
12:30 - 2:00 PM	Paper Presentation in Three Parallel Tracks 1. Track 1.1 - AI and Machine Learning in Healthcare (Eureka Lab, First Floor, Edison Block) 2. Track 2.1 - Sustainable Data-driven solutions for Society, Environment and Industry (Conference Room 1, First Floor, Edison Block) 3. Track 3.1 - Next-Generation Electronics and Applied Technologies (Conference Room 2, First Floor, Edison Block) Conference Workshop Innovating with MATLAB: AI, Simulation & Computational Insights in association with DesignTech Systems Pvt. Ltd., New Delhi
2:00 - 2:45 PM	Lunch
	End of Day 1





Timing	Program
9:30 – 10:45 AM	Expert Talks Transnational Engineering Education By: Prof. Dennis Wong - Regional Provost and Group CEO (East and Southeast Asia), Newcastle University, Singapore Quantum Secure Communications in Microgrids By: Dr. Daniel Lai - Associate Professor, Deakin University, School of Information Technology, Australia
10: 45 AM - 12:15 PM	Paper Presentation in Three Parallel Tracks on ZOOM 4. Track 1.2 - AI and Machine Learning in Healthcare 5. Track 2.2 - Sustainable Data-driven solutions for Society, Environment and Industry 6. Track 3.2 - Next-Generation Electronics and Applied Technologies
12:15 – 12: 30 PM	Break
12:30 – 2:00 PM	Paper Presentation in Three Parallel Tracks on ZOOM 7. Track 1.3 - AI and Machine Learning in Healthcare 8. Track 2.3 - Sustainable Data-driven solutions for Society, Environment and Industry 9. Track 2.4 - Sustainable Data-driven solutions for Society, Environment and Industry
	Closure

WECON 2025 – PAPER PRESENTATION SCHEDULE

Day 1 - October 10, 2025 | 12:30 PM - 02:00 PM | Physical Mode Paper Presentations | Venue - Chitkara University, Rajpura, Punjab

Track 1.1 - AI and Machine Learning in Healthcare			Track 2.1 - Sustainable Data-driven solutions for Society, Environment and Industry			Track 3.1 - Next-Generation Electronics and Applied Technologies		
Session Chairs - Dr. Neelesh Kumar - CSIO Chandigarh and Dr. Angsuman Sarkar - Kalyani Govt. Engg. College, West Bengal Session Co-Chair - Dr. Amit Kumar - Chitkara University Venue : Eureka Lab, First Floor, Edison Block			Session Chairs - Dr. Imali Dias - Deakin University, Australia and Dr. Umesh Kumar Tiwari - CSIO Chandigarh Session Co-Chair - Dr. Meenu Garg - Chitkara University Venue : Conference Room 1, First Floor, Edison Block			Session Chairs - Dr. Ankesh Jain - IIT Delhi, New Delhi and Dr. Suhaib Ahmed - MIET, Jammu Session Co-Chair - Dr. Priyanka Malhotra - Chitkara University Venue : Conference Room 2, First Floor, Edison Block		
PID	Paper Title	Presenting Author	PID	Paper Title	Presenting Author	PID	Paper Title	Presenting Author
55	A Novel Hybrid Machine Learning Strategy for Early Oral Cancer Detection	Shivani Mehla	6	Cache-Augmented Multimodal Sentiment Detection Using Embedding Systems	Sai Sreeja Sudhagani	56	Palm2Precision: Anemia Detection through Palm Images	Alok Kumar
71	Identification of Factors behind High-Risk Pregnancies in Rural Punjab, India using Machine Learning	Gaganpreet Kaur	10	Cache-Optimized Shared Embedding Space For Seamless Cross-Modal Search	Padmini Gudavalli	115	A Novel CU-Shaped Antenna for Sub-6 GHz 5G NR n77 Applications	Jeevan Jyoti
90	Performance Evaluation of Plant Leaf Disease Detection using Structural Modification of the Traditional Convolutional Neural Networks	Apoorva Sharma	29	The Frontiers of Emotion Detection: Advances, Open Issues and a Deep Learning Perspective	Megha Kapalia	165	Measurement of Effective Atomic Number (Zeff) and Electron Density in Superconductor (YBCO) Accompanied by Analysis of Am-241-Irradiated Zirconia'	Kiranjit Singh Kahlon
99	An Optimized Lightweight Deep Neural Architecture for Precise Localization and Classification of Oral Squamous Cell Carcinoma Lesions	Shalini	48	Efficient Real-Time Object Detection for Indoor Navigation Using Dual YOLO-SSD Networks and MobileNet Backbone	Eshaan Gupta	251	Enhanced Text Extraction from Low-Quality Legacy Documents Using TROCR Assisted by Line Detection	A Kirti Meghana
195	Predictive Modeling of Cardiovascular Disease Risk Based on Lifestyle Using Machine Learning Techniques	Fardeen Mansoori	107	A DNN-Driven Approach for Cyberattack Classification in IoT Systems Using Edge-IIoTset	Banu Partap Singh	277	Performance Analysis of Voltage-Controlled Ring, Current-Starved, and LC-Tank Oscillators in CMOS Phase-Locked Loop Design	Kashish Thakur
270	Cerebrovascular Disease Classification with LSTM Networks: A Deep Learning Framework to Discriminating Time-Series Signals	Suryansh Malhotra	275	Review of AI in Serious Games for education based on STEM: Science, Technology, Engineering, and Mathematics	Karthick B	282	A Fourth-Order Low-Power Filter with Improved Figure of Merit for Wearable Biomedical Applications	Deepika Bansal

Day 2 - October 11, 2025 | 10: 45 AM - 12:15 PM | Online on Zoom

Track 1.2 - AI and Machine Learning in Healthcare			Track 2.2 - Sustainable Data-driven solutions for Society, Environment and Industry			Track 3.2 - Next-Generation Electronics and Applied Technologies		
Session Chairs - Dr. Chua KJ Ernest - National University of Singapore and Dr. Sushma Jaiswal - Guru Ghasidas Central University, Bilaspur Session Co-Chair - Dr. Priyanka Malhotra - Chitkara University			Session Chairs - Dr. Adeline Sneha - Asia Pacific University of Technology & Innovation, Malaysia Session Co-Chair - Dr. Deepti Prit Kaur - Chitkara University			Session Chairs - Dr. Reza Maghami - Asia Pacific University of Technology & Innovation, Malaysia Session Co-Chair - Dr. Kulbhushan Sharma - Chitkara University		
PID	Paper Title	Presenting Author	PID	Paper Title	Presenting Author	PID	Paper Title	Presenting Author
3	Impact of Milking Animals on Socio - Economic and Ethical Dimensions of Society	Achal Mogla	119	Social Media Influence in Culinary Branding: The Role of Food Vloggers on YouTube	Hansen Fernando Sugama	31	Evaluation of Advanced Electropollution in Non-Gaussian Channel Environments using Non-Free Space Propagation Models	T.Venkatakrishnamoorthy
64	Ultrasound-Based Thyroid Nodule Classification using GoogleNet and Xception Ensemble with CNN-LSTM Hybridization	Smitirekha Behuria	124	Nano Influencers and Their Impact on Beauty Product Purchase Intentions among Gen-Z in Indonesia	Iston Dwija Utama	35	Optimized Design and Implementation of Reversible Feynman, Toffoli, Peres and Double Feynman Gates using Quantum Dot Cellular Automata (QCA)	Saakshi P Aayasya
173	AI Driven Framework for Personalized Diabetes Assessment using Multi-Modal Clinical Data	Kachi Anvesh	178	Enhancing College Events with CEMS: A Tech Driven Approach for Organization & Engagement	Katukam Saketh	140	Smart Bowl: A Smart and Efficient ESP32-Based Solution for Timely Pet Food Distribution	Balthu Deekshithi
181	Voice-Based Parkinson's Disease Stage Classification	Gottumukala Gayathri	191	Real Time Object Detection using Yolo and Open CV: A Case study with Class Room Attention Detection	Sumathi Pawar	145	Energy-Aware 2D FIR Filter Design using Approximate Multipliers and Circular Coefficient Symmetry	Harish Babu Gade
196	Optimized Image-Based Disease Detection: Evaluating the Effects of Preprocessing, Annotation Methods, and Dataset Variability	Harold Y. Bangalisan	269	The Effect of Gamification Features in Increasing User Interaction on Online Shopping Applications	Yogi Pratama Hutagalung			

Day 2 - October 11, 2025 | 12: 30 PM - 02:00 PM | Online on Zoom

Track 1.3 - AI and Machine Learning in Healthcare			Track 2.3 - Sustainable Data-driven solutions for Society, Environment and Industry			Track 2.4 - Sustainable Data-driven solutions for Society, Environment and Industry		
Session Chair - Dr. Rajvir Kaur - NIT Puducherry Session Co-Chair - Dr. Deepti Prit Kaur - Chitkara University			Session Chairs - Dr. Nikhil Kumar - Kurukshetra University, Haryana Session Co-Chair - Dr. Amit Kumar - Chitkara University			Session Chairs - Sathish Krishna - IBM Corporation and Dr. Mohammad Maroof Siddiqui - Dhofar University, Oman Session Co-Chair - Dr. Kulbhushan Sharma - Chitkara University		
PID	Paper Title	Presenting Author	PID	Paper Title	Presenting Author	PID	Paper Title	Presenting Author
49	A Bibliometric Analysis of Trends of Machine Learning Research in Children's Mental Health and Online Gaming Disorder	Swati Singh	11	SmartEV: Bridging Charging Infrastructure Gaps with Machine Learning and Real-Time Interactive Navigation Systems	Kanishk Jindal	40	Enhanced Partial Discharge Classification Using Ensemble Learning: A Comparative Analysis of Random Forest and XGBoost Approaches	Rafeetha V C
171	Drug Target Interaction Prediction using Deep Neural Networks	Shivani Bhargav	46	A Two-Stage Machine Learning Pipeline for Hourly Precipitation Prediction in Indian Cities Using NASA-POWER Reanalysis Data	Sanjitha R	80	Memory-Aware Scheduling in Constrained Environments	Bhavana Nare
186	USDA-Unsupervised Domain Adaptive Prediction Model for Ischemic Stroke Assessment	Manjeet Singh	88	AI-Powered Early Intervention for Sustainable Agriculture: Multi-Crop Disease Detection and Classification Using CNNs	Kavita Jhajharia	125	Evaluating Functional Coverage of Accelerator Design for DT-based ML Implementations	Abhishek Yadav
194	Deep Ensemble-Based Multi-Class Classification of Sports Injuries using EMG and Kinematic Features	Yogesh Kumar	185	Optimizing Crop Recommendation Systems: A Multi-Domain Comparative Analysis of Classification using Machine Learning	Kachi Anvesh	141	A Secure Blockchain-Driven Model for Identity Preservation and Missing Person Tracing in Post-Disaster Scenarios	Anil Gupta
273	Drug Identification using Graph Neural Network(GNN) for Cancer Treatment	Beetukuru Madhavan	278	AI/ML based Modelling of Floating Offshore Wind Turbine Performance using Data Analytics within Python Framework	Hemaraju Pollayi	184	Designing a Structured Educational Data for AI: A Dataset for Outcome-Based Learning and Assessment	Javed Khan Sheikh
						264	Lightweight QoS-Aware Workflow Scheduling for Efficient Task Execution in Cloud Environments	Vishalika

LIST OF REGISTERED PAPERS IN THE CONFERENCE

PID 3 Impact of Milking Animals on Socio-Economic and Ethical Dimensions of Society D.K. Chaturvedi and Achal Mogla <i>Dayalbagh Educational Institute (Deemed to be Univ.), Dayalbagh, Agra, U.P. 282005 India</i>	PID 6 Cache-Augmented Multimodal Sentiment Detection Using Embedding Systems Srilakshmi V, Uday Kiran G, Sai Sreeja S, Varun Reddy V, Karthik V, and Sridar Chowdary P <i>B. V. Raju Institute of Technology, Narsapur, Telangana, India</i>	PID 10 Cache-Optimized Shared Embedding Space for Seamless Cross-Modal Search Uday Kiran G, Srilakshmi V, Padmini G, Sri Snigdha K, and Siva Praneetha K <i>B. V. Raju Institute of Technology, Narsapur, Telangana, India</i>
PID 11 SmartEV: Bridging Charging Infrastructure Gaps with Machine Learning and Real-Time Interactive Navigation Systems Mallhar Karkhanis, Kanishk Jindal, Jeet Suchak, and Hemlata Goyal <i>Manipal University Jaipur, Jaipur, India</i>	PID 29 The Frontiers of Emotion Detection: Advances, Open Issues and a Deep Learning Perspective Megha Kapalia, Amanpreet Kaur, and Neha Sharma <i>Chitkara University Institute of Engineering & Technology, Chitkara University, Punjab, India</i>	PID 31 Evaluation of Electropollution in Non-Gaussian Channels Using Non-Free-Space Propagation Models M Ravi Sankar and T. Venkatakrishnamoorthy - <i>Sasi Institute of Technology and Engineering, Tadepalligudem, India</i> ; Gavini Sreelatha - <i>Stanley College of Engineering and Technology for Women, Warangal, India</i> ; Sreedhar Kollem - <i>SR University, Warangal, India</i> ; D.Maithili - <i>Malla Reddy Institute of Technology & Science, Hyderabad, India</i> ; M Dharani - <i>Mohan Babu University, Tirupathi, India</i>
PID 35 Optimized Design and Implementation of Reversible Feynman, Toffoli, Peres and Double Feynman Gates using Quantum Dot Cellular Automata(QCA) Saakshi P Aayasya and Ramesh Kumar V <i>IIITS, Chittoor, India</i>	PID 40 Enhanced Partial Discharge Classification Using Ensemble Learning: A Comparative Analysis of Random Forest and XGBoost Approaches Rafeetha V C and C Vyjayanthi <i>National Institute of Technology Goa, India</i> Shashank H Joshi and Madhu G M <i>Siemens Ltd, Goa, India</i>	PID 46 A Two-Stage Machine Learning Pipeline for Hourly Precipitation Prediction in Indian Cities Using NASA-POWER Reanalysis Data Mohnish Shri Hari B, Sanjitha R, Vergin Raja Sarobin M, and Graceline Jasmine S <i>VIT, Chennai, India</i> Bibraj Raj - <i>India Meteorological Department</i>
PID 48 Efficient Real-Time Object Detection for Indoor Navigation Using Dual YOLO-SSD Networks and MobileNet Backbone N. Deepa and Tanmaya Arora - <i>Manav Rachna International Institute of Research and Studies, Faridabad, Haryana, India</i> Manpreet Kaur, Shivani Sharma, and Sneha Kumari - <i>Manav Rachna University, Faridabad, Haryana, India</i> Maneesha Singh - <i>ESI College and Hospital, Faridabad, Haryana, India</i>	PID 49 A Bibliometric Analysis of Trends of Machine Learning Research in Children's Mental Health and Online Gaming Disorder Swati Singh <i>Uttaranchal University, Dehradun, India</i>	PID 55 A Novel Hybrid Machine Learning Strategy for Early Oral Cancer Detection Santosh Rani - <i>Dronacharya College of Engineering, Gurugram</i> Princy Tyagi - <i>Swami Rama Himalayan University, Dehradun</i> Shivani - <i>Ambala College of Engineering and Applied Research, Ambala</i>
PID 56 Palm2Precision: Anemia Detection through Palm Images R. Girija, Manpreet Kaur, Alok Kumar, Aditya Nagar, Naveen Gill, and Tanishk <i>Manav Rachna University, Faridabad, Haryana, India</i> Maneesha Singh - <i>ESIC Medical College and Hospital, Haryana, India</i>	PID 64 Ultrasound-Based Thyroid Nodule Classification Using GoogleNet and Xception Ensemble with CNN-LSTM Hybridization Smitirekha Behuria and Sujata Swain <i>KIIT Deemed to be University, Bhubaneswar, India</i>	PID 71 Identification of Factors behind High-Risk Pregnancies in Rural Punjab, India using Machine Learning Gurnoor Shergill and Gaganpreet Kaur <i>Thapar Institute of Engg & Technology, Patiala, India</i>

PID 80 Memory-Aware Scheduling in Constrained Environments Bhavana Nare <i>University of Georgia</i>	PID 88 AI-Powered Early Intervention for Sustainable Agriculture: Multi-Crop Disease Detection and Classification Using CNNs Prashasti Rai and Kavita Jhajharia <i>Manipal University Jaipur, Jaipur, India</i>	PID 90 Performance Evaluation of Plant Leaf Disease Detection using Structural Modification of the Traditional Convolutional Neural Networks Apoorva Sharma and Kalpna Guleria <i>Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, India</i> Shagun Sharma - <i>VIT Bhopal University, Sehore, Bhopal, Madhya Pradesh, India</i>
PID 99 An Optimized Lightweight Deep Neural Architecture for Precise Localization and Classification of Oral Squamous Cell Carcinoma Lesions Shalini Nehra, Satyam Srivastava, and Gaurav Purohit <i>CSIR – CEERI, AcSIR Central Electronics Engineering Research Institute, Pilani, Rajasthan, India</i> Sudershan Singh Negi - <i>Plaksha University, Mohali</i>	PID 107 A DNN-Driven Approach for Cyberattack Classification in IoT Systems Using Edge-IIoTset Banu Partap Singh and Ashu Taneja <i>Chitkara University Institute of Engineering & Technology, Chitkara University, Punjab, India</i>	PID 115 A Novel CU-Shaped Antenna for Sub-6 GHz 5G NR n77 Applications Jeevan Jyoti, Shivani Malhotra, Nitin Saluja, and Nitika Dhingra <i>Chitkara University Institute of Engineering & Technology, Chitkara University, Punjab, India</i>
PID 119 Social Media Influence in Culinary Branding: The Role of Food Vloggers on YouTube Hansen Fernando Sugama, Jason Daniel Sutanto, Verrell Marsel Liandri Kartawaria, Dian Kurnianingrum, and Kania Alma Tiara <i>Bina Nusantara University, Jakarta, Indonesia</i>	PID 124 Nano Influencers and Their Impact on Beauty Product Purchase Intentions Among Gen-Z in Indonesia Levinka Esthaliani and Iston Dwija Utama <i>Bina Nusantara University, Bandung, Indonesia</i>	PID 125 Evaluating Functional Coverage of Accelerator Design for DT-based ML Implementations Ayush Dixit, Abhishek Yadav, Binod Kumar <i>IIT Jodhpur, Rajasthan, India</i> Raushan Kumar - <i>SVNIT Surat, Gujarat, India</i>
PID 140 Smart Bowl: A Smart and Efficient ESP32-Based Solution for Timely Pet Food Distribution Balthu Deekshitha, Gunda Srinija, Mohammed Irfan Ali, Harish Babu Gade, and Venkata Krishna Odugu <i>CVR College of Engineering, Hyderabad, India</i>	PID 141 A Secure Blockchain-Driven Model for Identity Preservation and Missing Person Tracing in Post-Disaster Scenarios Anil Gupta <i>Model Institute of Engineering and Technology, Jammu, J&K, India</i>	PID 145 Energy-Aware 2D FIR Filter Design Using Approximate Multipliers and Circular Coefficient Symmetry Venkata Krishna Odugu and Harish Babu Gade - <i>CVR College of Engineering, Hyderabad, India</i> ; U Appala Raju - <i>Geethanjali College of Engineering and Technology, Hyderabad, India</i> ; Kancharla Suresh - <i>St. Martin's Engineering College, Hyderabad, India</i> ; Manish Kumar Singla - <i>Applied Science Private University, Amman, Jordan</i> ; Bharti Sharma - <i>Saveetha School of Engineering, Chennai, Tamil Nadu, India</i>
PID 165 Measurement of Effective Atomic Number (Z_{eff}) and Electron Density in Superconductor (YBCO) accompanied by analysis of Am-241-Irradiated Zirconia Manoj Kumar Gupta and Baltej Singh Sidhu - <i>S.D College, Barnala, India</i> Bhavnes and K. S. Kahlon <i>Sant Longowal Institute of Engineering and Technology, Longowal, India</i> Amrit Singh - <i>SGTB Khalsa College, Shri Anandpur Sahib, India</i>	PID 171 A Comparative analysis of Deep Learning Approaches for Predicting Drug Target Interaction Shivani Bhargav and Surbhi Gupta <i>Model Institute of Engineering and Technology, Kot Bhalwal, Jammu, J&K</i>	PID 173 AI Driven Framework for Personalized Diabetes Assessment using Multi-Modal Clinical Data Nalla Navatha, Kachi Anvesh, Akula Revanth, Swati Singh, and Cheruku Pramod <i>Vardhaman College of Engineering, Shamshabad, India</i> A Ramesh Babu - <i>Annamacharya University, Andhra Pradesh, India</i>

PID 178 Enhancing College Events with CEMS: A Tech-Driven Approach for Organization and Engagement Katukam Saketh, Ganesh B Regulwar, Lakkarsu Hemanth, M.Abhishek, Mittapally Neehar Kumar, and Sreenivasulu Gogula <i>Vardhaman College of Engineering (Autonomous), Hyderabad, India</i>	PID 181 Voice-Based Parkinson's Disease Stage Classification Gottumukala Gayathri, Ganesh B Regulwar, Sreeja Vanga, Arukala Pradeep, V.Muni Sekhar, and Nikhila Kathirisetty <i>Vardhaman College of Engineering (Autonomous), Hyderabad, Telangana, India</i>	PID 184 Designing a Structured Educational Data for AI: A Dataset for Outcome-Based Learning and Assessment Javed Khan Sheikh and Hemant Kumar Soni <i>Amity School of Engineering and Technology, Amity University, Madhya Pradesh, Gwalior, India</i>
PID 185 Optimizing Crop Recommendation Systems: A Multi-Domain Comparative Analysis of classification using Machine Learning Kachi Anvesh, Sumaiya Shaikh, Polisetty Swetha, Chinthla.Dhanalaxmi, and Tonta Ishverya <i>Vardhaman College of Engineering, Hyderabad, India</i> Saroja Kumar Rout - <i>VIT-AP University, Amaravati, India</i>	PID 186 USDA-Unsupervised Domain Adaptive Prediction Model for Ischemic Stroke Assessment Manjeet Singh and Mehak Mengi <i>Model Institute of Engineering and Technology, Jammu, India</i>	PID 191 Real Time Object Detection using Yolo and Open CV: A casestudy with Class Room Attention Detection Sumathi Pawar, Prashanthi K S, Ankitha K, <i>NMAM Institute of Technology (Deemed to be University), Nitte, Karnataka, India</i> Suma K - <i>Mangalore Institute of Technology & Engineering, Moodbidri, Karnataka, India</i> Geethalaxmi and Vasanth Nayak <i>Canara Engineering College, Bantwal, Karnataka, India</i>
PID 194 Deep Ensemble-Based Multi-Class Classification of Sports Injuries Using EMG and Kinematic Features Gurmeet Kaur - <i>University Institute of Engineering, Chandigarh University, Mohali, Punjab, India</i> Yogesh Kumar - <i>Pandit Deendayal Energy University, Gandhinagar, India</i>	PID 195 Predictive Modelling of Cardiovascular Disease Risk Based on Lifestyle Using Machine Learning Techniques Fardeen Mansoori, Khushi Chauhan, Isha Jakhad, and Harminder Kaur <i>Sharda University Greater, Noida, India</i>	PID 196 Optimized Image-Based Disease Detection: Evaluating the Effects of Preprocessing, Annotation Methods, and Dataset Variability Harold Y. Bangalisan, J. Adeline Sneha, and V. Sivakumar <i>Asia Pacific University of Technology & Innovation (APU), Kuala Lumpur, Malaysia</i>
PID 251 Enhanced Text Extraction from Low-Quality Legacy Documents Using TrOCR Assisted by Line A Kirti Meghana, Harsh Gupta, and Preeti Dubey <i>Sharda University, Greater Noida, India</i>	PID 264 Lightweight QoS-Aware Workflow Scheduling for Efficient Task Execution in Cloud Environments Vishalika - <i>Model Institute of Engineering and Technology, Jammu, India</i>	PID 269 The Effect of Gamification Features in Increasing user Interaction on Online Shopping Applications Fauzan Mohammad, Yogi Pratama Hutagalung, and Adele Mailangkay <i>Bina Nusantara University Jakarta, Indonesia</i>
PID 270 Cerebrovascular Disease Classification with LSTM Networks: A Deep Learning Framework for Discriminating Time-Series Signals Suryansh Malhotra, Nikita, and Jyoti Yadav <i>Netaji Subhas University of Technology, New Delhi, India</i>	PID 273 Drug Identification using Graph Neural Network(GNN) for Cancer Treatment A. Akhila, B. Madhavan, B. Pavan, and M.A. Jabbar <i>Vardhaman College of Engineering, Hyderabad, India</i>	PID 275 Review of AI in Serious Games for education based on STEM: Science, Technology, Engineering, and Mathematics Karthick B and Sushil Kumar Narang <i>Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, India</i> Meenu Khurana - <i>Chitkara University School of Engineering, Chitkara University, Himachal Pradesh, India</i>
PID 277 Performance Analysis of Voltage-Controlled Ring, Current-Starved, and LC-Tank Oscillators in CMOS Phase-Locked Loop Design Abhishek Kumar, Kashish Thakur, and Rajeevan Chandel <i>National Institute of Technology, Hamirpur, HP, India</i>	PID 278 AI/ML based Modelling of Floating Offshore Wind Turbine Performance using Data Analytics within Python Framework Hemaraju Pollayi <i>GITAM University, Hyderabad-502329, TG, India</i>	PID 282 A Fourth-Order Low-Power Filter with improved figure of merit for Wearable Biomedical applications Aryan, Naman Garg, and Diksha Thakur <i>Chitkara University Institute of Engineering and Technology, Chitkara University, Punjab, India</i> Deepika Bansal - <i>Manipal University Jaipur</i>

OVERVIEW OF THE CONFERENCE WORKSHOPS




WECON™ 2025
8th World Engineering Conference on Contemporary Technologies™
October 10-11, 2025 | Chitkara University, Punjab, India
Technically sponsored by IEEE Delhi Section

Pre-Conference Workshop

**Beyond Transistors:
Quantum Dot Cellular (QCA)
Automata in Logic Systems**
18 July 2025 | Online Mode | 11:00 AM Onwards

Focus Areas

- QCA principles and post-CMOS motivations
- Design & simulation methodologies for QCA logic circuits
- Fabrication techniques & material considerations for QCA devices
- Performance modelling and analysis of QCA-based systems
- Integration of QCA technology with CMOS platforms
- Applications in low-power and high-density nanoelectronics systems

Resource Person
Dr. Suhaib Ahmed
Convener R&D Cell, MIET

Registration

- Open to students, research scholars, industry professionals, academicians, entrepreneurs
- Nominal registration fee of INR 1,000 is applicable



Scan to register by July 15

Organized by: Department of ECE,
Chitkara University, Punjab, India

In Association with: Model Institute of
Engineering & Technology (MIET),
Jammu, India

For queries, contact Dr. Garima Chopra:
garima.chopra@chitkara.edu.in

www.chitkara.edu.in/wecon




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Pre-Conference Workshop

**Immersive Realms: A Workshop on
Gaming and AR/VR Development**
20-25 July 2025 | Venue – Chitkara University, Punjab
(Physical Mode) | 9:30AM Onwards

Focus Areas

- AR/VR immersion for enhanced learning & real-world applications
- Unity editor, game design, C# scripting, and XR development
- Interactive storytelling, visual design, and multimedia elements
- Building competencies for Industry 4.0 in emerging tech sectors
- Promoting digital literacy through hands-on sessions using modern technological tools

Resource Person
Karthick B
Associate Professor, Chitkara Centre for Game Design & Immersive Technologies

Registration

- Open to students, research scholars, academicians, industry professionals, entrepreneurs
- Nominal registration fee of INR 1,000 is applicable



Scan to register by July 19

Organised By: Department of ECE,
Chitkara University, Punjab, India

For queries, contact
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rubina.dutta@chitkara.edu.in &
isha.gupta@chitkara.edu.in

www.chitkara.edu.in/wecon





8th World Engineering Conference On Contemporary Technologies™ (WECON 2025)
October 10th-11th, 2025 | Chitkara University, Punjab, India
Technical Sponsor – IEEE Delhi Section
www.chitkara.edu.in/wecon

Conference Workshop

**Innovating with MATLAB:
AI, Simulation & Computational Insights**
October 10th-11th, 2025 | Offline Mode

Focus Areas

- ★ Using MATLAB AI toolbox to model, simulate, and deploy intelligent systems
- ★ Leveraging Simulink for system-level modelling
- ★ Data visualization, signal processing, and statistical analysis
- ★ Integration of MATLAB with real-world use cases along with hardware interfacing

Who Can Attend?

- Faculty Members, Academicians, and Scientists
- Entrepreneurs and Industry Professionals
- Research Scholars and Students

The workshop is jointly organized by the
Department of ECE, Chitkara University, Punjab, India
and DesignTech Systems Pvt. Ltd., New Delhi

For queries, write to Dr. Harsimran Jit Kaur
harsimran.kaur@chitkara.edu.in

Scan to Register by 5 Oct 2025



**Registration Fee
INR 1,000/-**

Resource Person
Manoj Kumar
Sr. Application Engineer
DesignTech Systems Pvt. Ltd.
New Delhi

SUMMARY OF THE PAST EDITIONS

Between 2008 and 2024, seven editions of this prestigious conference have been successfully conducted by Chitkara University. The details of the past editions are as follows.

WECON 2008

WECON 2008 was the first edition of International Conference on 'Wireless Networks and Embedded Systems' organized by Electronics & Communication Department, Chitkara Institute of Engineering & Technology (Now Chitkara University) during October 18-19, 2008, in association with George Brown College, Canada. The conference was sponsored by Council of Scientific and Industrial Research (CSIR India). Highlights of WECON 2008 were as follows -

- The conference was inaugurated by Dr. C. P. Ravikumar - Director, University Relations, Texas Instruments (India), Prof. Jorge Olenewa - George Brown College Canada and Scientist Dr. R.P Bajpai
- 2 Volumes of conference proceedings were released featuring 273 papers.
- Invited talks by technology experts from CEERI Pilani, BITS Pilani, STMicroelectronics, CSIO Chandigarh, GNDU and NITTTR Chandigarh.
- About 200 delegates attended the conference spread over two days.
- Seventy-three papers were presented in seven technical sessions.
- 2 Volumes of conference proceedings were released featuring 273 carefully selected papers after a detailed review.

WECON 2009

WECON 2009 was the second edition of International Conference on Wireless Networks & Embedded Systems conducted during Oct 23-24, 2009, organized by ECE department of Chitkara Institute of Engineering & Technology (Now Chitkara University). The conference was sponsored by Council of Scientific and Industrial Research (CSIR India) and had international association with George Brown College, Canada. Highlights of WECON 2009 were as follows -

- Over 250 papers were received during the conference of which 136 were selected for the publication in the conference proceedings.
- 73 Papers were presented in six parallel sessions.
- Hands-on workshops on 'Wireless Technologies' by Prof. Jorge Olenewa, George Brown College, Canada.
- Hands-on workshop on Open Source Embedded

Systems Design using Beagle Board' by Dr. C. P. Ravikumar, Texas Instruments

- Digital Poster Presentations
- Industry Exhibit Demonstration Educational Products related to electronics

WECON 2011

The Third Edition of International Conference on Wireless Networks & Embedded Systems was organized during July 18-19, 2011 by Electronics & Communications Department of Chitkara University in association with George Brown College Canada. The conference was inaugurated by Prof. Rabi Mahapatra, Director, Embedded System Codesign Group, Department of Computer Science & Engineering, Texas A&M University, USA. The highlights of WECON 2011 were -

- Over 230 Technical Papers from Researchers across the Globe.
- 55 Papers were selected for publication in conference proceedings.
- Keynote talks by eminent professors from leading foreign universities
- Prof. Rabi Mahapatra - Texas A&M University, USA.
- Prof. Jorge Olenewa - George Brown College Canada
- Prof. P.R. Kumar - University of Illinois at Urbana-Champaign, USA
- Symposium on "RF Data Communications and Wi-Fi" conducted by Prof. Jorge Olenewa, George Brown College Canada
- Kick Start of five-day embedded systems design workshop by Prof. Rabi Mahapatra conducted under (Indo US Collaboration for Engineering Education) IUCEE.

WECON 2015

The fourth edition of International Conference on Wireless Networks & Embedded Systems was organized during March 20-21, 2015, by Chitkara University in association with British Columbia Institute of Technology, Canada and Deakin University, Australia.

Conference attracted over 250 technical papers by students, academicians & researchers from India & abroad of which 94 papers were shortlisted for publishing in the conference e-proceedings & 97 papers were presented during the conference in four parallel tracks. WECON 2015 was attended by over 200 delegates

that included students, faculty, researchers from India & Abroad as well as Industry Professionals.

In addition to technical paper presentations, WECON 2015 features lots of other intellectual activities that motivated & inspired delegates to keep exploring the innovative world of embedded systems & wireless networks.

- Advanced Communication Lab Set-up - MoU signed between Chitkara University (CU) & Quadrant Televentures Ltd. (QTL) for the set-up of 'Advanced Communications Lab' at Chitkara University (CU).
- Launch of 'Innovative Embedded Systems' Projects Book -Book features 69 papers about innovative embedded projects done by students of Indian Engineering Institutions, It is edited by Dr. C.P. Ravikumar – Director Talent Development Texas Instruments India & Published by Chitkara University Publications
- 8 Keynote Talks – Keynote Talks by leading researchers & industry professionals from India & Abroad. These talks highlight some of the interesting & hot areas for research in the field of embedded systems & wireless networks.
- 5 hands-on workshops – Five hands-on workshops conducted on leading embedded technologies to give delegates, the practical experience.

WECON 2016

WECON 2016 was the 5th edition of international conference on Wireless Networks & Embedded Systems organized by Chitkara University. WECON was born in 2008 and it is one of the most prominent technical conferences organized in North India. WECON 2016 was the first edition to garner IEEE technical sponsorship in addition to support from Deakin University, Australia and Texas Instruments India as Principal Patrons. WECON 2016 was also financially aided by ISRO (Indian Space Research Organization) and DRDO (Defense Research & Development Organization). EY Magazine was a media partner and other industry collaborators were MathWorks India, Secure Meters Pvt. Ltd., Aricent India.

- WECON 2016 was attended by academicians & researchers from all over India. It provided good opportunity to explore the possibility of inter

institutional research collaborations. There were 60 papers from 12 different countries presented in the conference.

- WECON 2016 was attended by researchers from around the globe; it provided a great opportunity to learn each other culture and understand research challenges and opportunities across borders.
- WECON 2016 attendees were a good mix of industry and academia. Tremendous platform to explore industry academia collaboration.
- WECON 2016 had a great team of 54 reviewers, provided a great platform for budding researchers in getting reviews for their research work.
- Each of the 5 WECON 2016 tracks were chaired by 3 session chairs who were experts in their areas. It was a great opportunity for the researchers to get reviews and feedback about the work they were doing.
- WECON 2016 featured 2 pre-conference hands-on workshops on cutting edge Texas Instruments Technologies and was attended by 40 faculty of 13 different institutions and the trainers were the experts from Industry. It provided excellent opportunity for knowledge sharing.
- Conference proceedings was published by IEEE on IEEE Xplore.

WECON 2018

The 6th edition of the conference was held on November 16-17, 2018, and was organized with technical sponsorship from IEEE. The proceeding of the conference was published by IEEE on IEEE Xplore. The conference was organized in collaboration with Applied Materials, NXP Semiconductors, Indian Space Research Organization (ISRO), Heriot Watt University (Malaysia) and Indian Electronics and Semiconductor Association (IESA).

- Mr. Sanjay Gupta – Vice President and Country Head, NXP Semiconductors, India, delivered the inaugural address.
- Mr. Ashwini Aggarwal – Director (Govt. Affairs), Applied Materials, India, delivered a keynote address.
- Executive Committee of IEEE Delhi Section attended the conference and organized their 5th IEEE Delhi Section Executive Council Meeting on the sidelines of the conference.
- Dr. M.L. Dennis Wong – Deputy Provost, Heriot Watt University, Malaysia, delivered an invited talk.

- Mr. H.S. Jatana – SCL Mohali and Mr. Vivek Tripathi – STMICROELECTRONICS conducted tutorials on Analog Chip Design and Data Converters, respectively.

WECON 2022

For all these years the focus of WECON has only been restricted to the state-of-the-art work in Wireless Networks and Embedded Systems domains. However, today there are many other fascinating technology areas that have been growing very rapidly and are attracting the interest of researchers worldwide. Therefore, after much deliberation it was decided to broaden the spectrum of WECON to include more contemporary technology areas in its ambit, and the conference has been renamed as World Engineering Conference on Contemporary Technologies (WECON). WECON 2022 was organized on May 20-21, 2022 and it was attended by over 200 delegates.

- The conference featured 50 Paper Presentations in 5 Parallel Tracks, 4 Keynote Talks, and 9 Invited Talks.
- The accepted papers have been published by

Elsevier in the Materials Today Proceedings.

- The inauguration ceremony was marked by two insightful keynote addresses by Dr. Pradeep K. Rohatgi – Director, Center for Composites and Advanced Materials Manufacture, UWM, USA, and Dr. Ashwini K Aggarwal - Director, Government Affairs, AMAT Inc., New Delhi, India.
- Additionally, Day 1 of the conference witnessed paper presentations in two parallel tracks and four invited talks by Prof. Dr. Satyabrata Jit (IIT BHU), Prof. Dr. Angsuman Sarkar (KGECE, West Bengal), Dr. Govind Gupta (CSIR-National Physical Laboratory, New Delhi) and Dr. Arpan Deyasi (RCC, West Bengal).
- On Day 2, two keynote talks were organized that were delivered by Prof. Dr. R.S. Gupta (MAIT, New Delhi) and Mr. P Rajagopalan (Marvell Technology, Singapore).

Day 2 also witnessed five invited talks by Prof. Dr. Rajesh Khanna (Thapar Univ., Punjab), Prof. Dr. Rishu Chaujar (DTU), Dr. Harsupreet Kaur (University of Delhi), Dr. Sudhanshu Singh (Amity University, Rajasthan), and Dr. Manash Chanda (Meghnad Saha Inst. Of Tech., Kolkata).



ALL WECON COLLABORATORS, SINCE INCEPTION IN 2008





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