INTERNATIONAL CONFERENCE ON ADVANCES IN COMPUTER ENGINEERING AND COMMUNICATION SYSTEMS
E-Conference(ICACECS-2020)
13TH & 14TH Aug, 2020
VNR Vignana Jyothi Institute of Engineering and Technology
Department of Computer Science & Engineering
(Sponsored by AICTE)

Springer

REPORT

International Conference on Advances in Computer Engineering and Communication Systems (ICACECS-2020) is an e-**Conference** organized by the Department of Computer Science and Engineering, VNR VJIET, Hyderabad, during 13th – 14th August 2020. The conference is sponsored by All India Council for Technical Education (AICTE) and technically supported by SPRINGER, Computer Society of India (CSI) and Indian Society for Technical Education (ISTE).

ICACECS-2020 is a platform for researchers, scientists, scholars, students and industry professionals from around the continent to present their current research and foster alliances with peers. It provides insights to the recent trends and developments in the field of Computer Science with a special focus on Mezzanine technologies and creates an arena for collaborative innovation.

Based on the theme of the conference *Smart Innovations in Mezzanine Technologies, Data Analytics, Networks and Communication Systems*, Research papers were invited in the following tracks.

Track 1: MEZZANINE TECHNOLOGIES

Track 2: BIG DATA and DATA ANALYTICS

Track 3: CLOUD, IoT and DISTRIBUTED COMPUTING

Track 4: SMART SYSTEMS

Track 5: NETWORKS and COMMUNICATION SYSTEMS

182 papers have been received across the globe and 81 papers have been accepted for presentation after undergoing a three-level review process, by experts drawn from reputed organizations, across the world. All accepted and presented papers will be published by Springer and submitted for indexing in ISI Proceedings, EI-Compendex, Scopus, Google Scholar, and SpringerLink.

The presentations have been scheduled in Seven sessions spread across the two days of the conference, Eminent Professors from IITs, NITS and other reputed institutes chaired the sessions

S. no	Name & Designation (Session Chair)	Track & session	No.of papers	Best Paper Title & Authors
1	Dr M A Hameed	1 & 1	13	A new 5-layer model approach for Pneumonia Prediction – ID.23
2	Dr Umesh Kumar Singh	1 & 2	13	Real-time credit card fraud detection using SPARK framework – ID.165
3	Dr U Srinivasulu reddy	2 & 3	10	Comprehensive Analysis of the art techniques for VQA – ID.49
4	Dr Rakesh Mattam	2 & 4	8	Cancer classification using mutual information and regularized RBF- SVM –

S.No				
				ID.127
5	Dr Vijay Pal Reddy	5	9	Smart wireless black box with intelligent facial recognition system for prevention of Accidents and theft of vehicles using Rasberry Pi and sensor based IOT – ID.124
6	Dr U Venkanna	6	13	An Effective Technique to Detect Dimensions of Pipe under the Ground Using GPR Images – ID.159
7	Dr K Vijay Kumar	7	13	Image Fusion using LUKR in Multi-Modal Authentication – ID.133

Pre-conference workshops in the cutting-edge technologies – Machine Learning and Artificial Intelligence, Block Chain Technologies and Cyber security were conducted from 12th – 14th August 2020.

S.No	Title	Participants	Resource Person
1	Machine Learning & Artificial Intelligence using Python	73	**Mr.P.Venkateswara rao**, VNR VJIET **Certified Professional in** **1) Machine Learning** from Emeritus Singapore in collaboration with Columbia University New York. **2) Artificial Intelligence** from Emeritus Singapore in collaboration with Columbia University New York. **3) Application development** from **Service Now.**
2	Block chain Technologies	35	**Mr Prshanth Sahoo** **Scrum Master, Certified Blockchain Trainer.**
3.	CYBER Security	22	**Mr YASEEN RAZVI SYED** **Microsoft Certified Technology specialist**

Machine Learning & Artificial Intelligence using Python gave an overview about Python Programming ,various packages and functions required for Machine learning and Data Science. The sessions mainly focussed on how to enrich programming skills by using Python, guided the participants on the approaches to use various packages required for implementing machine learning and artificial intelligence following Learning by Doing (LBD) methodology. The last day was on the case studies and implementation strategies that could be followed for the best outcome.

Mr. Prasath sahoo gave an overview about **Blockchain technologies**, in the real world, where and how they are using this technology. Speaker has showed the participants the live examples from his sources, he also explained about the Hashing methodology like Sha256, its usage and algorithm was explained. The properties of Blockchain and the Crypto currency BITCOIN

was also explained on the following day. The various hacking techniques were illustrated to the participants.

Cyber-attacks are very common in the current scenario. Recent reports show that, for every 30 seconds one computer can be hacked. The **Cyber Security** workshop illustrated the ethical hacking techniques and its architecture. The boom in the cyber-attacks eco system with the changing technology was detailed, creating inquisitiveness among the participants. **Expert lectures** in **Quantum Computing, Augumented reality, Impact of Deep Learning in Big Data Analytics and Scalable Architectures in Data Analytics** were arranged on both the days of the conference inviting experts from Industry. These lectures provided insights to the upcoming technologies and also discussed research issues that could be handled in the respective fields.

The Conference Inaugural was conducted ONLINE on 13th August 2020. Dr C Kiran Mai, Professor CSE, VNR VJIET and Convenor of the conference gave an overview and importance of the conference being organised, with a thank you note to AICTE, the sponsorer of the event. The department activities was detailed by Dr B V Kiranmayee, Head of the computer Science department followed by the Principal of the Institute Dr C D Naidu and Director Dr Chennakesava rao, who complimented the team and also explained the importance of participation in such events to gain a thorough knowledge of the happenings in the technology world. The others who were connected at the event were, Dr Subhananda Rao, Director-Research, VNR VJIET, Management Representatives Dr D N Rao, President of Vignana Jyothi Society, Dr Harishchandra Prasad, General Secretary Vignana Jyothi Society. Dr Srujan Raju, co-editor of the conference proceedings in LAIS series, Springer, Dr Raghava Rao Mukkamala and Dr Suresh Chandra Sathapathy, key Note speakers of the Conference also took part in the inaugural session.

Sri Rajiv Ratan Chetwani, Director, Directorate of Information Systems & Management, Indian Space Research Organisation (ISRO) was the Chief guest of the event. In the inaugural speech he addressed on the computing trends and working principles of Autonomous cars.

Dr A Govardhan, Rector JNTU-H, Guest of Honor at the event spoke on the seventeen sustainable development issues announced by UNO to balance the globe and connect to the nature. He emphasized the importance of collaborative research, that helps the society to find new innovations for its benefit.

Keynote addresses on **Blockchain and distributed ledger technologies for sustainable development** by **Dr Raghava rao Mukkamala**, Director, Centre for Business Data Analytics, Department of Digitalization, Copenhagen Business School, Denmark, and **AI in Health care** by **Dr.Suresh Chandra Satapathy**, Professor and Dean Research, School of Computer Engineering, KIIT Deemed to be University, Bhuvaneswar was conducted on 13th and 14th August 2020 respectively.

The Valedictory session was conducted on 14th August 2020 at 4.00pm. Dr C Kiran mai, Convenor-ICACECS , co-Convenors Dr A.Brahmananda Reddy, Dr B V Kiranmayee, HOD-CSE, Principal and Director of the institute participated in the event. Dr Manzoor Hussain, Registrar JNTUH, Hyderabad chief guest, at the Valedictory congratulated the team for the successfully conducting the International Conference during the Pandemic. He emphasized the essence of conducting such events regularly encouraging knowledge sharing platforms and exposure to the research across the

globe. The session ended with a Thank you note to all involved directly or indirectly in the Conference.