International Virtual Conference on

ARTIFICIAL INTELLIGENCE, 5G COMMUNICATIONS AND NETWORK TECHNOLOGIES

(ICA5NT 2022)

28-04-2022 & 29-04-2022

Organised by

Department of Electronics and Communication Engineering

VELAMMAL INSTITUTE OF TECHNOLOGY

Approved by AICTE-New Delhi, Affiliated to Anna University - Chennai

All Programs Accredited by NBA and NAAC

"Velammal Knowledge Park", Chennai - Kolkatta Highway, Ponneri - 601204

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ABOUT THE INSTITUTION

Velammal Institute of Technology is the brainchild of our chairman Shri.M.V.Muthuramalingam, a pioneer in the field of education. The Institution reflects the ideals of its founder and seeks to achieve excellence. It was established in the year 2008 by Velammal Educational Trust. The Institution has been approved by the AICTE, New Delhi and affiliated to Anna University, Chennai. The Institution offers seven under graduate courses in Engineering & Technology and has state-of-the-art laboratory, a well-stocked library and best computing facilities. The Institution offers programmes in Engineering and Technology leading to undergraduate degrees in the disciplines of Computer Science and Engineering, Electronics and Communication Engineering, Electrical and Electronics Engineering, Information Technology, Mechanical Engineering, Artificial Intelligence and Data Science, Mechatronics Engineering. It has also been accredited by the National Accreditation and Assessment Council (NAAC) and Five Undergraduate Program have been accredited by National Board of Accreditation.

Velammal Institute of Technology has competent, motivated, dedicated & experienced faculty members who are determined & distinctive in teaching and research. We strive for academic excellence through personalized attention and proper guidance & counselling. The monitoring system adds effectiveness in the holistic development of the students. It has been serving for a decade and has acclaimed merits both in co-curricular and extracurricular activities. The Institution has been consistently maintaining in top 10 Anna university affiliated colleges in academics. Nurturing of young talents has been done through various events like innovative project competitions, seminars/symposiums and workshops.

ABOUT THE DEPARTMENT

The Department of Electronics and Communication Engineering (ECE) was established in the year 2008 with the vision to produce meritorious engineers with human values by imparting high quality technical education. In the year 2009 intake is increased to 120.The department has faculty members with a blend of youth and experience comprising of postgraduates and accomplished doctorates in various domains of Electronics and Communication. Faculty members of this department have considerable academic, industrial and research experience. From its inception, it always encourages both students and faculty members for participating in various technical and non-technical activities. The department has specialists in the fields of Electronics, Communication Systems, VLSI Design, Wireless and Mobile Communication, Medical Electronics and in various other fields. The department is well equipped with the state-of-art laboratories. Our students are placed in well-reputed companies.

ABOUT THE CONFERENCE

ICA5NT 2022 focuses on Artificial Intelligence, 5G communication and networking technologies which are the three major research and emerging areas in current scenario. In recent years, Artificial Intelligence aims to create machines and automated technologies that can successfully simulate human intelligence. Artificial intelligence (AI) has been used in applications to solve specific problems throughout industry and academia This conference provides a conclave for experts to gain knowledge in three research fields to meet potential challenges and opportunities for future advancement.

KEY NOTE SPEAKERS

Mr.Venky Annaduari

Mr. VenkyAnnadurai is a technology executive with more than twenty five years of experience setting the vision for and delivering solutions for companies that range from high-growth technology (Tesla) and Software start-ups (Sify) to Fortune 500 (Sony, Visa), He has extensive experience aligning business, technology, and digital strategies. Committed to cultivating a culture of innovation for high-performing teams.

Mrs.Usha Vadivelu

Ms. Usha Vadivelu is currently a QA manager, IT Applications at Intuitive, Sunnyvale, California, United States. She is Leader in QA Project Management around 16 year's experience in leading complex projects/programs including managing Development, Conversion/Porting, Maintenance and Testing Project. She leads IT Application test cases Automation projects on web and mobile for UAT and Release Cycles and Leading Testing processes and Strategies. She is specialized in Project/Program Management, Consulting, IT Strategy & Design, Resource and Program Management, Telecom and Securities. She has earned scrum master certification in 2013.

CONFERENCE TOPICS

ICA5NT 2022 invites original contributions for different Streams given below, but are not limited to:

Stream 1: Artificial Intelligence

- Artificial Neural Networks
- AI and Robotics
- Robotics in Industry
- Application of Automation
- Machine Learning and Computing
- Deep Learning
- Decision Management
- Speech Recognition
- Natural Language Processing
- Data mining with big data
- Modern Artificial Intelligence
- Evolutionary Computation

Stream 2: Integrated 5G Terrestrial and Satellite Network Communication

- 5G Wireless technologies and applications
- Cloud-based 5G mobile architectures
- Software Defined Networking (SDN) for 5G
- Massive MIMO Communications
- Industry 4.0
- Machine Learning and adaptive techniques for 5G
- Security issues and solutions for IoT in 5G networks
- Emerging IoT applications in 5G networks
- Antenna, RF and Microwave Communications

Stream 3: Network Technologies

- Network Protocols and Architectures
- Adhoc and Sensor Networks
- Mobile and Broadband Wireless Internet
- Mobile Network and Wireless LAN
- High speed Networks
- Network Security and Privacy
- Cellular and broadband Wireless Networks
- Cognitive Radio Networking
- Advanced Routing Algorithm
- Malware Analysis
- Resource allocation and Management
- Network Based applications

Note: The Conference will be conducted through online mode. Presentation Link will be provided Two Days Before the Conference

INSTRUCTION TO AUTHORS

Original contributions of ongoing research and unpublished research works/outcomes are expected from Authors. All the accepted, registered and presented papers will be published in conference proceedings and certificate will be provided to all authors.
Send the paper through mail to:ica5nt2022@velammalitech.edu.in
Best Paper will be awarded for each session based on the article quality.

DATES

IMPORTANT DATES

Last date for Full paper submission	: 15th April 2022
Intimation of Acceptance	: 20th April 2022
Camera ready Paper for Registration	: 23rd April 2022
Date of Conference	: 28th& 29th April 2022

REGISTRATION FEE & MODE OF PAYMENT

UG Students/PG Students/Research Scholars/Academicians/Corporate : Rs 500/-
The registration fee in the form of a Demand Draft drawn in favour of "**The Principal, Velammal Institute of Technology", Chennai-601204** payable at Chennai and should reach the Conference Convenor on or before **23rd April 2022. Online Transaction facility is also available.**

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