



AVIT
AARUPADAI VEEDU INSTITUTE OF TECHNOLOGY



**VINEYAKA MISSION'S
RESEARCH FOUNDATION**
(Deemed to be University under section 3 of the UGC Act 1956)



APPROVED BY AICTE



ACCREDITED BY NAAC



RECOGNIZED BY DSIR

Two days Virtual International Conference on Recent Emerging Science, Engineering & Advanced Research in Communication and Healthcare IC-RESEARCH 2021



04 JUNE 2021 & 05 JUNE 2021

PAPER FORMAT

Call for papers - Prospective authors are invited to submit manuscripts reporting original, unpublished research and recent developments in the topics related to the conference. Submissions must include title, abstract, author affiliation with the email address and keywords. Submitted papers should be maximum of 6 pages in length in standard IEEE conference format. Literature reviews/ survey papers will only be considered if they present a new perspective or benefit the field. The proceedings of the conference will be published with ISBN number.

PUBLICATION

- All the accepted papers will be published in the "Conference Proceedings" with registered ISBN number.
- Selected papers will be supported for getting published in "SCOPUS" indexed journal with the consent of corresponding author(s).
- The maximum authors on the stipulated paper are restricted to 4 members.

PLAGIARISM POLICY:

All submitted papers will be subjected to a "similarity test" under registered plagiarism Software. Papers achieving a minimal similarity index i.e., less than 30% will be examined, and those are deemed unacceptable will be rejected/ withdrawn. Authors are requested to kindly refrain from plagiarism in any form and submit their original and unpublished research work not under consideration for publication elsewhere. As per copyright transfer agreement, authors are deemed to be individually and collectively responsible for the content of manuscripts published by them.

REGISTRATION FEE

Students (UG & PG) & Research Scholars	: Rs. 400/- per paper
Faculty	: Rs. 500/- per paper
Industrial Participants	: Rs. 600/- per paper
Foreign Delegate	: 100 USD

FOR ONLINE PAYMENT

Account Name	: Aarupadai Veedu institute of Technology
Account Number	: 027805003561
Bank	: ICICI BANK LTD
IFSC Code	: ICIC0000278
Branch	: CHENNAI KILPAUK

IMPORTANT DATE

Deadline for Paper Submission	: 27 th May 2021
Acceptance Notification	: 28 th May 2021
Final Manuscript Submission	: 29 th May 2021

CALL FOR PAPERS

Original contributions are solicited for presentation on Emerging Trends in HARDWARE SECURITY, VLSI, SIGNAL PROCESSING, EMBEDDED SYSTEMS & COMMUNICATION, BIOMEDICAL, BIOMECHANICS, TELEMEDICINE, DIAGNOSTICS AND THERAPEUTICS, BIOMEDICAL IMAGING, The topics of interest include (but are not limited to) the following :

ELECTRONICS DOMAIN*

- > Ad Hoc / Sensor Networks
- > Antenna & Wave Propagation
- > ASIC Design / FPGA Implementation
- > Hardware Trojan
- > Network Security and Cryptography
- > Trusted Hardware Module
- > Biomedical Imaging
- > Data Mining
- > Embedded/RTOS Applications
- > Image/Video Processing
- > Internet of Things (IoT)

BIOMEDICAL DOMAIN*

- > Biomedical Engineering
- > Bio-Engineering
- > Bioinformatics Engineering
- > Biological Systems and Models
- > Biomaterials
- > Biomechanics
- > Biomedical device characterisation

ROBOTICS*

- > Drug Delivery Techniques
- > Hydrogels
- > Tissue Engineering
- > Sensors and instrumentation

The full paper should be in accordance with IEEE guidelines. (Not exceeding 6 pages)

***Not Limited to**

SUBMIT YOUR PAPER TO THE MAIL ID : icresearch@avit.ac.in, REGISTRATION URL: www.avit.ac.in/icresearch2021

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OBJECTIVES: To bring together researchers, young faculty and practitioners working in multi-disciplinary fields to discuss and deliberate on challenges, opportunities and strategies involved for communication engineering and healthcare technology. This conference will provide a platform to academic researchers and practitioners to discuss critical issues concerning latest technologies.

ABOUT AVIT : Aarupadai Veedu Institute of Technology (AVIT) established in the year 1988, is an ambit institution of the Vinayaka Mission's Research Foundation. It is located on OMR, the IT corridor of Chennai. Vinayaka Mission's research foundation is accredited by NAAC. Vinayaka Mission's research foundation excel in disciplines like medicine, Dentistry, Paramedical Science, Homeopathy, Engineering, Management and basic sciences and has his wings spread across Tamil Nadu and Pondicherry. AVIT offers undergraduate, postgraduate and research program in all disciplines of Engineering and technology. The institution has adequate

number of classrooms and infrastructure for labs with state of the art equipments. The Institution has a well-stocked Library with adequate textbooks, reference books, National and International journals, DVD Library and e-learning facilities in the digital library. The Library has National Digital Library (NDA) access and installed SwayamPrabha DTH Channel facility for Swayam/NPTEL and other MOOC online courses. The college has chapters of various professional societies Like IEEE, IEEE PES, IEEE CSE, IETE, ISTE, IIPe, SAE, etc.,. The management believes in collaborative projects and hence has established with industries and research organizations. The institution has signed Memorandum of Understanding (MoU) with Bosch, Intel, Tech Mahindra, Infosys campus connect, GSScorp Japan, Satsang Research Institute, Baba Clinical and Genomic Research Centre, Chennai, NASSCOM, ICTACT,IYF and many more.

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CONFERENCE CO-CONVENERS

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Mr. RAJAT KUMAR DWIBEDI, Asst.Prof (Gr-II)/ECE

ABOUT THE DEPARTMENT

BIO MEDICAL ENGINEERING : Department of Bio-medical Engineering was started in the year 2008 within Aarupadai Veedu Institute of Technology (AVIT). The program is well structured to make the students understand the recent advancements in the field of biomedical engineering. Understanding the recent advancement will enrich their skillsets and make them excel in their career as researchers and engineers. Bio-medical engineering program of Aarupadai Veedu Institute of Technology (AVIT) is designed to make students understand the advancements such as Robotics based medical technologies, Sensors based diagnostics, Bio-MEMS, Medical coding and Medical equipment's. This program makes the students more unique in understanding the needs of the market in the field of medical diagnostics to provide an overall enhancement in the health care.

ELECTRONICS & COMMUNICATION ENGINEERING : The department was established to excel in education and research in Electronics and Communication Engineering (ECE) from the year 1998-it conglomerates academic rigor with a vibrant campus life. The department offers undergraduate, post graduate and Ph.D. programmes that provide students with the knowledge and tools to meet the growing technological demands. The broad of courses are taught by the group of highly experienced faculties, who are also researchers in their own areas. The ECE department has well equipped laboratories coupled with extensive practical work which ensures the students receive a well-rounded education. Keeping this in mind the department has focused on industry defined problems

from various Public Sector Units for their student research work. The ECE department is research intensive which has adequate infrastructure to engage in cutting edge-research activities and projects funded by DRDO-SAG, MHRD-UBA, TNSCST are carried out.

ABOUT CONFERENCE : The aim of the conference is to provide a global forum of academicians, researchers, industrialists and students engaged in areas of technology to discuss critical issues concerning intricacies of communication engineering and healthcare that impact the society and also to share and explore new areas of research , development and to discuss emerging issues as well as novel methods. This conference will also provide opportunities for networking and collaboration among the professionals from different disciplines across the country.

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ADVISORY COMMITTEE

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Oakland University Rochester
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13. Shri. JayanandanThulasiraman Founder & CEO of Tesla Minds
14. Dr. Sapthagirivasan, Manager, RnD (Medical Devices), Capegemini, Bangalore, Karnataka.
15. Dr.K.Ramji, Associate Professor, Department of Biomedical Engineering,
Bharath Institute of Higher Education & Research
16. Dr.Narayanan, Associate Professor, Department of Mechanical Engineering, VIT, Chennai.

S.No	Key Note Speakers	Key Note Address
01	Dr. DAVID JENKINS, Associate Professor of Nanomaterials and Devices. School of Engineering, Computing and Mathematics (Faculty of Science and Engineering), University of Plymouth	Graphene based Biosensors for Neurodegenerative Diseases
02	Dr. CELIA SHAHNAZ, Ph.D, SMIEEE, FIEB Professor, Department of EEE, Bangladesh University of Engineering & Technology, Chair, IEEE Bangladesh Section, Dhaka, Bangladesh	Signal, Biomedical and Industrial applications based on Deep Learning
03	Shri. NANDAKUMAR SUBBURAMAN, Founder, CEO & Director, Perfint Healthcare	Robotics enabled Healthcare
04	Dr. RAJ VAITHAMANITHI, Head - Clinical Systems Development, NHS, United Kingdom	Emerging trends in Healthcare digital transformations
05	Dr. SAPTHAGIRIVASAN. V, Manager, RnD (Medical Devices), Capegemini	Release of Souvenir

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