






Virtual Platform



 **KL** UNIVERSITY
Electronics & Communication Engineering

CATEGORY 1 UNIVERSITY OF INDIA
KL ACCREDITED BY NAAC WITH A++ GRADE
nirf 2021 NATIONAL RANKING
RANKED 35 AMONG ALL UNIVERSITIES
41 YEARS OF EDUCATIONAL EXCELLENCE

 **IEEE KLUSB**  **MTT-S**  **IEEE ComSoc**
IEEE Communications Society  **IETE**
INSTITUTE OF ELECTRONICS AND TELECOMMUNICATIONS ENGINEERS

**INTERNATIONAL CONFERENCE ON
RECENT ADVANCES
IN ANTENNAS
PROPAGATION
WIRELESS
COMMUNICATIONS
& EMERGING
TECHNOLOGIES**

RAAPWCET-2023

Venue:

Department of ECE, KLEF, Vijayawada
On 18th & 19th November 2023

Organized by
ANTENNAS & LIQUID CRYSTALS RESEARCH CENTER (ALRC)
Department of ECE, KLEF

We, the Organizing Chairs of the Conference, feel honored to introduce to you and invite you for the two-days International Conference on Recent Advances in Antennas, Propagation, Wireless Communications & Emerging Technologies (RAAPWCET-2023) organized by KLEF during November 18th - 19th, 2023 in Association with IEEE Communication & MTTs Student Chapter, KLEF. A number of proven personalities from Industry, Research Organizations and Academic Institutions have given their consent to grace the conference to emphasize the benefits of Recent Trends in Electronics and Communication Engineering for a wide variety of Engineering applications. This International Conference (RAAPWCET-2023) aims to provide a platform to learn and share knowledge on Advances in Antennas, Propagation, Wireless Communications & Emerging Technologies. This Conference would provide a forum for exchange of ideas and authoritative views by Research Community from Industry & Academia from National and International fraternity. Outstanding keynote speakers and well-known leading scientists and experts drawn across the globe will be expected to share their knowledge. We endeavour to bring individuals from various fields, and to make a setting in which they can collaborate synergistically, and ideally make new logical outcomes.

This conference leads to the conclusions that 21st century communications throw light on the challenges to system designers, manufacturers and researchers in their field related to ingenious Wireless Communication, Space Technologies, Data Communication, RF, Antennas, Signal Processing and Robotic Communication. The Wireless meeting offers key insights into cutting-edge applications from global experts, start-ups, and the winners of World's major innovation competitions for space applications. Over and above all, this conference would open avenues and pave the path ways for the future generations by introducing innovative techniques and paradigms in order to face the challenges and transform into 'opportunistic communications.

The conference Proceedings, all the selected and presented papers will be published in JPCS: Conference series, IOP online proceedings (open Access).

KONERU LAKSHMAIAH EDUCATION FOUNDATION: Established in 1980, KLEF is a pioneer in the field of Engineering education and research in India. K L E F has been declared as Deemed to be University by MHRD, Government of India and accredited by National Assessment and Accreditation

Council (NAAC) as "A++" grade University. It is recognized by the Department of Scientific and Industrial Research (DSIR) as Public Funded Research Institute (PFRI). It also has collaborations for conducting Joint research with several Institutes around the globe. It received "The best educational Institute award in engineering" by Asian Confederation of Business. In 2019 UGC, MHRD declared this institution as Category I. The University was also ranked 41 under NIRF 2020.

DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING: Department of ECE was established in 1983. The department has strong back-up of 234 faculty members, specialized in core areas of ECE. Among 87 faculty members are PhD holders and 121 faculty members are pursuing PhD. Department houses several rich industry experience faculties to cater the industry needs into academics. The Department has a total of 7 State of the Art laboratories, 2 Centers of Excellence and 8 Research Centers which are well equipped to the highest level of sophistication and cater to the needs of UG, PG and PhD students. These labs have specific emphasis on Research and Development activities. The students have full and free access to software/ tools like LabView, Xilinx, Mentor Graphics, Ansys HFSS, CST, Electric CCS, Octave, Logisim, Multisim, Code composer studio etc. There is an emphasis on PRACTICAL ORIENTATION of the students towards engineering field which has led to the concept of OPEN LABs and PROJECT BASED LABs in the Department. The students have OPEN access to all the laboratories from 7.00 A.M to 7.00P.M which they can utilize to explore beyond the curriculum and experiment on innovative thoughts/ideas. The Department has 12 Crores worth of Sponsored projects from DST-FIST, DLRL, ISRO, DEAL etc. 2000+ International Journal papers, 600+ International Conference papers and 150+ National Conference papers by the faculty. Certificate courses in advanced areas are conducted every semester. Faculties from Foreign universities are involved in regular teaching activity. Department's academic calendar is highlighted by regular seminars, group discussions, student paper contests, Industry Alliance and Student Personality Development Programs for all round development of students in National & International events. Student associations namely 'Pulse' to conduct technical events and 'Hope' to conduct social service activities. Placement in leading core communication companies like Amphenol Antennas, BSNL, MTNL, Reliance Communications, Tata Telecom, Hutch, Bharti Telecom, Nokia, CISCO, IBM, Intel, Agilent, Alcatel, AT & T Ericsson, Honeywell, Bosch, National Instruments, Texas Instruments, HCL and others.

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EMINENT SPEAKERS



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Head- MMIC Design Center in GAETEC,
DRDO, Chair, AP/MTT/EMC Chapter,
IEEE Hyderabad Section.



Dr. Debdeep Sarkar
Assistant Professor
Indian Institute of Science (IISc),
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Dr. Pyari Mohan Pradhan,
Assistant Professor,
Indian Institute of Technology,
Roorkee



Dr. Gunasekaran Thangavel
Program Director
Electronics & Telecommunication Engineering
Electrical and Electronics Engineering
Department University of Technology and
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Muscat, Sultanate of Oman.

TRACKS & TOPICS

Wireless Communication

- ✓ Antenna Liquid Crystal
- ✓ 5G Networks and Communication
- ✓ MIMO in Wireless Communication
- ✓ Sustainable Communication Technologies
- ✓ Vehicle Communication Systems and Internet to Vehicles
- ✓ NANO communications Beyond 5G and 6G
- ✓ Quantum and Optical Communications
- ✓ Software Defined Radio
- ✓ Cognitive Radio
- ✓ Satellite Communication & its applications

Data Communication

- ✓ Communication Network and Information and Cyber Security
- ✓ Communication Protocols Design and Management
- ✓ Internet of Things and Big Data
- ✓ AI for Wireless Communication Networks and Systems
- ✓ Communication Device Modelling, and Coding Analysis
- ✓ Networks and Protocols
- ✓ Cloud & Edge Computing
- ✓ Wireless Sensor Networks
- ✓ Multimedia and Annihilation

RF & Microwave

- ✓ Electromagnetic and Photonics
- ✓ Novel Microwave Theories and Technologies
- ✓ Advances in Millimetric Wave propagation
- ✓ High Frequency Devices
- ✓ Plasma Devices
- ✓ Metamaterial and Graphene Applications
- ✓ Antenna Array synthesis & pattern tenability
- ✓ Advanced & Modern Antenna applications
- ✓ Optimization techniques in Antenna Design
- ✓ Millimetric wave and Radar Applications
- ✓ EMI/EMC.

Signal Processing

- ✓ Analog and Digital Signal Processing
- ✓ Image, Audio & Video Processing Analysis and Applications
- ✓ Biomedical Signal Processing & Applications
- ✓ Neural Networks and Fuzzy Logic

Robotic Communication

- ✓ Intelligent Robotics and Mechatronics
- ✓ Automation and control systems
- ✓ Locomotion and manipulation in biological and robot systems
- ✓ Micro Electro Mechanical Systems (MEMS)
- ✓ Micro Robotics
- ✓ Multi-Agent Collaborative Systems (MACS).
- ✓ Drone for research and applications

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REGISTRATION DETAIL

Every accepted article / research paper should be registered by at least one author to attend the conference. The acceptance list of article / research paper will be announced on the website and the authors will be intimated regarding the acceptance through e-mail. The details about registration fee are given below:

CATEGORY	GENERAL		IEEE MEMBER		IETE MEMBER
	INDIAN(INR)	OTHERS (\$)	INDIAN(INR)	OTHERS (\$)	INDIAN(INR)
Industry/Research	10,500	250	10,000	200	10,300
Faculty	9,500	200	9,000	150	9,300
Research/UG/PG Scholars	9,000	160	8,500	110	8,700
Participants as Attendees	2000	80	1500	50	1800

Important Dates

Submission of Full Paper	27th August, 2023
Notification of Acceptance/Revision request	09th September, 2023
Submission of Camera-Ready Paper	04th October, 2023
Conference Dates	18th - 19th November, 2023

PAPER SUBMISSION GUIDELINES

- Only registered delegates can attend the conference.
- In order to include the selected paper in Conference Proceedings, at least one author has to register and present his/her paper at the conference.
- If multiple authors of selected papers wish to attend, they are requested to register separately & will not be entertained as accompanying persons.
- Student delegates -UG/PG/Research Scholars are requested to attach a letter from the HOD/Dean/Principal /Research Guide verifying their full-time student status.
- Registered candidates cannot claim for refund on their absence in the conference.

To know more on paper submission guidelines & format please click on (<https://www.kluniversity.in/ece/raspwcet-2023/>). For queries, please feel free to contact us on below contact details or write to us at

Contact Details: +91- 91332 41111

eeconference.csrg@kluniversity.in

Registration Details :

All the participants/Authors/Co-Authors have to register for the conference

<https://forms.gle/ztg5ykm53eUzwbVf7>

Look forward for your high-quality submissions and meeting you at RAAPWCET-2023.