



NATIONAL SYMPOSIUM ON
EMERGING TECHNOLOGIES IN DRONES AND ROBOTICS

DOROTICS

2 0 2 3

March 30, 31 & April 1, 2023

Organised by

CEG, Anna University,
Chennai, Tamil Nadu,
India

TRACK 1:
AI and Data Science

TRACK 2:
UAV Technology

TRACK 3:
Robotics and its Applications

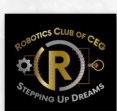
TRACK 4:
Drone and Robotics

TRACK 5:
ICT Support Systems for Drones and Robotics

PAPER SUBMISSION
DUE
FEB 15th 2023

CASH PRICE
₹ 5000

ORGANIZING PARTNERS



IN ASSOCIATION WITH



KNOWLEDGE PARTNER



ABOUT SYMPOSIUM

First National Symposium on Emerging Technologies in DOROTICS (Drones & Robotics) will be held in College of Engineering Guindy, Anna University, Chennai - 25 from March 30th to April 1st 2023. This event is organized in view with DOROTICS summit in association with Board of International Aviation Games(BIAG), CTF and Robotics Club, CEG and Robotics Club, MIT, sponsored by CED, Anna University

ABOUT ANNA UNIVERSITY

Anna university was established in 1978 as a unitary type of University. Anna University is one of the largest state-run universities in the country with more than 571 affiliated colleges. It offers high education in engineering, technology and allied Sciences relevant to the current and projected needs of the society. Besides promoting research and disseminating knowledge gained there from, it fosters cooperation between the academic and industrial communities.

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Professor,DCSE, CEG, Anna University

Dr. T.Mala,
Associate Professor, DIST, CEG, Anna University

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Deputy Director, CASR, MIT

Dr.D.Narashiman,
Teaching Fellow, DIST, CEG, Anna University.

WHO CAN PARTICIPATE

UG Students

Academics

PG Students

Research Scholars

Industry Professionals

CALL FOR PAPERS

- Prospective authors are encouraged to submit their papers through Easy chair.
- All the submissions sent must be original and should not have been published or under consideration for publication in any other journal.



For further details, visit the website:

http://auced.com/events/dorotics_symposium/

PUBLICATION

- Accepted & Registered papers will be published in Symposium proceedings with ISBN no.
- Selected and extended best papers will be considered for possible publication in the following journals based on peer review process by the journals.
 - Respective scopes of ICTACT journals
 - Selected papers presented will also be published in IMEKO ACTA open journal. (SCOPUS indexed)

AWARDS

- Best Paper from each track will be awarded a cash prize of ₹5000 (per Track).

CONTACT DETAILS

Dr. S. Chitrakala +9144-22358859

Dr. T.Mala +9144-22358854

Email dorotics.symposium@gmail.com



TRACK DETAILS

SYMPOSIUM TOPICS INCLUDE(BUT ARE NOT LIMITED TO) THE FOLLOWING

Track 1: AI and Data Science

- ML/DL/Reinforcement/Soft Computing
- Explainable AI
- AI Conversational Systems
- AI for smart city
- AI & Creativity
- AR/ VR
- Image and Video Analytics
- Speech Recognition Systems
- Cognitive Science and AI
- IoT/ Cloud Computing
- Block Chain Technology/ NFT
- Network Security/ Cyber Security
- Social Network Analysis
- Ontology and Semantic Web

Track 2: UAV Technology

- UAV system design
- UAV sensor Technology
- Modelling and Simulation of UAVs
- Swarm UAVs
- UAV fault tolerant control
- Stealth UAV
- UAV Data processing
- Obstacle sense and Avoidance
- Simultaneous localization and mapping
- Biomimicry Drones

Track 3: Robotics and its Applications

- Cobot
- Robotics and automation for Industry 5.0
- Socially-assistive Robotics
- Multi-agent Robotics
- Evolutionary Modular Robotics
- Cooperative Robotics
- Agricultural Robotics
- Disaster relief Robotics
- Entertainment Robotics
- Industrial Robotics
- Medical Robotics
- Military Robotics
- Space Robotics
- Underwater Robotics
- Robots for Bore Well Rescue operation
- Robotic scavenger
- Machine Learning for Autonomous Robots
- Legged Robot
- Autonomous Vehicles

TRACK DETAILS

SYMPOSIUM TOPICS INCLUDE(BUT ARE NOT LIMITED TO) THE FOLLOWING

Track 4: Drone and Robotics

- Intelligent flight path planning
- Aerial robotics and UAV application
- UAS for precision agriculture
- UAS for digital humanity and cultural heritage preservation
- Aerial robotics
- Aerial robotics and engineering applications
- Problems and challenges in aerial robotics
- Autonomous aerial robot
- ICT Supporting systems
- HILS for UAS
- SILS for UAS
- Network centric UAS operations
- RF communication for UAS
- Antennas for UAS

Track 5: ICT Support systems for Drones and Robotics

- Drone AI technology (Object Detection, Object Counting, Image Segmentation, Image Classification, Change Detection)
- Computer Vision for Drone and Robots
- Machine Learning /Deep Learning for Drones and Robots
- Planning/ Learning/Reasoning for Robots
- Data Privacy and Security
- AI, Robotics and Automation
- Quantum Drones
- Autonomous Navigation
- AI solutions for mapping of Drones
- Speech Recognition for Drone and Robots control
- AI-Powered Drones
- Real-Time systems for Drone Swarm
- Communication Systems for Drone and Robotics
- AI Drones applications in various sectors
- AI solutions for damage assessment by drones
- Role of AI for intelligent robots in Agriculture, Disaster Relief, Entertainment, Industry and thrust sectors
- Recent Trends in Robotics and Computer Integrated Manufacturing
- Co-operative Robotics

IMPORTANT DATES

Events	Dates
Paper submission due	31st Jan 2023 15 th Feb 2023
Notification of acceptance	20 th Feb 2023
Final camera-ready paper submission	2 nd Mar 2023
Registration	16 th Mar 2023

REGISTRATION FEES

Category	Presenter	Co-Author	Participation
Students	3000	2000	2000
Academicians	5000	3000	3000
Industry Professionals	7000	4000	4000

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