About the programme

In the rapidly evolving field of machine learning-based signal processing, several key research trends have emerged, driving innovation and advancements. One prominent area of focus lies in the development of deep learning architectures tailored for signal processing tasks, such as speech recognition, image processing, and communication systems. There is also a growing emphasis on the integration of machine learning with traditional signal processing techniques to exploit the complementary strengths of both approaches.

As the field continues to evolve, interdisciplinary collaboration between experts in machine learning, signal processing, and domain-specific applications remains pivotal for pushing the boundaries of innovation in this dynamic research domain. The course is designed to give an insight into the basic theory, techniques and practical realization of Machine Learning algorithms pertaining to the image, speech and audio, music and neural signal processing domains.

Academic researchers and industry experts will share their experience on application of machine learning techniques in the following areas.

- Image processing
- Speech & Music signal processing
- Neural signal processing

There will also be sessions on stress management as part of the faculty development programme.

Sponsorship Certificate

Certified that Mr./Mrs./Ms./Dr./Prof..... .....is a regular faculty of this institution and he/she is hereby sponsored for the 5-day faculty development programme on `Research Trends in ML based Signal Processing` from January 29^{th} to 2^{nd} February 2024 at College of Engineering Trivandrum.

Mr./Mrs./Ms./Dr./Prof..... has been permitted to attend the course during period from January 29^{th} to 2^{nd} February 2024.

Place:

Date: Signature of Head of Institution

[Official seal]

Faculty Development Programme

on

Research Trends in ML based Signal Processing

January 29^{th} to 2^{nd} February 2024

organized by

Department
of
Electronics & Communication Engineering
College of Engineering Trivandrum
Thiruvananthapuram - 695 016

`Sponsored by`
`Directorate of Technical Education`
`Government of Kerala`

Resource Persons

The faculty development programme sessions will be conducted by academic researchers and industry experts drawn from across the country.

Who can apply

Professionals and researchers in various domains of engineering, including those affiliated with the government, aided or self-financing colleges and polytechnic colleges, research institutes and consultancies are encouraged to apply.

How to apply

Technical education department applicants should apply through DTE Training Portal `http://admissions.dtekerala.gov.in/tpms`

Other participants kindly apply via the Google Form available at `https://bit.ly/ml-trends` by 19/01/2024. Additionally, attendees are required to present a Sponsorship letter, endorsed by the Head of their respective Institution, upon arrival for the FDP.

`https://bit.ly/ml-trends`

Fee structure

No course fee for faculty members from government/aided engineering colleges and polytechnic colleges. Faculty members from self-financing institutions and research scholars have to pay a course fee of Rs.1,000/- (which is payable at the time of registration). Participants may remit fee by cash/DD in favour of Principal, College of Engineering Trivandrum.

Important Dates

Registration starts	12-12-2023
Registration ends	19-01-2024
Intimation of selection	22-01-2024
Confirmation of participation via email	24-01-2024

Website

`https://relu6.github.io`

Coordinators

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LaTeX

About the Organizing Institute

The College of Engineering Trivandrum (CET), founded in 1939, is a prominent engineering institution in India. CET has a prestigious history of producing globally recognized technocrats. All its undergraduate courses are accredited by the NBA until 2025.
The Department of Electronics and Communication Engineering of the college, established in 1964, is known for its leadership in technological advancements and academic excellence. The department offers two undergraduate programs, five postgraduate programs, and doctoral programs, reflecting its commitment to innovation and rigorous scholarship.

Vision

To transform young students into responsible and competent professionals with focus on dissemination of knowledge in the sphere of Electronics, Communication and Instrumentation Engineering.

Mission

- To impart quality engineering education to satisfy the needs of academics, industry and society.
- To achieve excellence in teaching-learning, research and innovation in the area of Electronics, Communication and Instrumentation Engineering.
- To facilitate networking with alumni, industries and institutions in bringing about excellence and nourishing the entrepreneurial skills of the students.
- To practice the highest level of professional integrity, transparency and accountability