REGISTRATION FORM

NAME : ....

STATUS : ☐ STUDENT ☐ FACULTY ☐ INDUSTRY

INSTITUTION : ....

ADDRESS : ....

....

....

MOBILE NO : ....

E-MAIL : ....

PAYMENT : ☐ G-PAY ☐ D.D ☐ PAYTM

D.D.NO : ....

BANK : ....

AMOUNT : ....

SIGNATURE OF THE PARTICIPANT

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ORGANIZING COMMITTEE

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THIRU. D. LAKSHMINARAYANASWAMY
Managing Trustee
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PATRON
THIRU. R. SUNDAR
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Sri Ramakrishna Engineering College

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Professor & Head
Department of Biomedical Engineering
Sri Ramakrishna Engineering College

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Associate Professor
Department of Biomedical Engineering
Sri Ramakrishna Engineering College

MR. S.VIGNESHWARAN
Assistant Professor(Senior Grade)
Department of Biomedical Engineering
Sri Ramakrishna Engineering College

DEPARTMENT of ATOMIC ENERGY

DAE - NBHM Sponsored National Level Seminar
on

Research Perspective on Probabilistic Model Construction and Markov Chain Monte Carlo (MCMC) with Bayesian Deep Learning for Biomedical Applications

February 2nd & 3rd, 2023

Organized by Department of Biomedical Engineering

ABOUT SRI RAMAKRISHNA ENGINEERING COLLEGE

Sri Ramakrishna Engineering College (SREC), Coimbatore established in the year 1994 by SNR Sons Charitable Trust is one of the 17 institutions managed by the trust. SREC is an autonomous institution offering 12 Undergraduate programmes in the disciplines of Aeronautical, Biomedical, Civil, Mechanical, Electronics and Communication, Electrical and Electronics, Electronics and Instrumentation, Information Technology, Computer Science and Engineering, Robotics and Automation, Artificial Intelligence and Data Science and M.Tech Computer Science and Engineering (5 Year Integrated). The institution offers Seven Post Graduate programmes in Engineering and Technology with specializations of Manufacuring Engineering, Power Electronics and Drives, VLSI Design, Computer Science and Engineering , Embedded System Technologies, Control and Instrumentation Engineering, Nanoscience and Technology, and MBA.

ABOUT THE DEPARTMENT

Biomedical Engineering is a multidisciplinary field of engineering addressing health related technologies. We, at Sri Ramakrishna Engineering College train students to develop careers in medical electronics, rehabilitation engineering, molecular diagnostics, medical data science and therapy design. Laboratories and faculty provide key infrastructure to learn the state of the art in these areas. Opportunities for collaboration with Sri Ramakrishna Hospitals, Coimbatore, a sister organization under the trust, provides access to a wealth of expertise and options for studying real world health issues for our students.

Our program is well structured to meet the growing demand for professionals to address emerging problems and opportunities in health care services, support industries and innovations for tackling health related challenges in the country and worldwide.

VISION

To develop into a center of merit in Biomedical Engineering, providing quality education, with orientation towards research and innovative development of health care products that will significantly enhance the quality of life.

MISSION

- To achieve academic distinction in applying engineering methods to confront health science challenges.

- To endorse research to address grand challenges in biomedical engineering in a manner that supports education, employment and entrepreneurship for the benefit of the community.

- To enable students to be sensitive to the ethical issues pertinent to the biomedical engineering profession

ABOUT THE SEMINAR

The Seminar aims at despite in the while deep learning has been revolutionary for machine learning, most modern deep learning models cannot represent the uncertainty nor take advantage of the well studied tools of probability theory particularly in dealing with in medical data. This has started to change following recent developments of tools and techniques combining Bayesian approaches with deep learning. The intersection of the two fields has received great interest from the community over the past few years, with the introduction of new deep learning models that take advantage of Bayesian techniques.

This Seminar will be a platform to host the recent flourish of ideas using Bayesian approaches in Deep Learning and deep learning tools using Bayesian modelling. The main theme will focus on applications of Bayesian deep learning within machine learning and outside of it in reference to medical data.

BENEFICIARIES

Students - UG and PG, Faculty Members, Research Scholars, Medical Researches

SEMINAR OUTCOMES

- Introduction to Bayes' Theorem
- Probabilistic Machine Learning
- **Application of Bayes' Theorem:** Bayesian Inference
- Bayesian Convolutional Neural Networks using Variational Inference
- Deep recognition models for Variational Inference
- Bayesian Convolutional Neural Network in PyTorch
- Uncertainty estimation in a Bayesian Neural Networks

IMPORTANT DATES
Last date for Registration : 01.02.2023

REGISTRATION FEE

- Registration fee includes Seminar Kit, Refreshments and Lunch
- Registration fee can be paid by Demand Draft drawn in favor of **"The Principal, Sri Ramakrishna Engineering College, Coimbatore"** payable at Coimbatore or Google Pay

REGISTERING MEMBERS On or before 01 .02.2023	Amount in Rupees
Faculty from Academic Institutions	₹350
Students	₹250
Industry and R & D Organizations.	₹500

Scan Qr Code to Register