Dr. N.G.P. ARTS AND SCIENCE COLLEGE

(An Autonomous Institution, Affiliated to Bharathiar University, Coimbatore)
Approved by Government of Tamil Nadu and Accredited by NAAC with A++ Grade (3rd Cycle-3.64 CGPA)
Dr. N.G.P. - Kalapatti Road, Coimbatore-641048, Tamil Nadu, India

DEPARTMENT OF BIOTECHNOLOGY
Ministry of Science & Technology
Government of India

DBT - Sponsored
NATIONAL SEMINAR ON
ARTIFICIAL INTELLIGENCE (AI) INNOVATIONS FOR ADVANCED
BIOLOGICAL SCIENCE AND RESEARCH
Organized by
Department of Computer Science with Cognitive Systems
DECEMBER 27, 2024

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Objectives

Recent significant developments in Artificial Intelligence (AI) have greatly benefited modern bioscience and bioengineering by facilitating the production of novel materials, accelerating the development of medicines and treatments, promoting economic growth, and combating climate change. AI tools and technologies that allow the engineering of living systems, might however either be purposefully or inadvertently exploited to inflict serious damage, potentially contributing to a national biological catastrophe. This seminar aims to know the advanced AI tools, applications and its benefits for life science research and also analyze the data efficiently with better solution.

The objectives of this seminar includes:

- To develop AI model guardrails that reduce biological risks.
- To development of next-generation AI tools for early detection and rapid response.
- To Develop a radically new, more agile approach to national governance of AI Systems.
- To implement promising AI model in biological research.
- To Strengthen biosecurity controls at the interface between digital design tools and physical biological systems

Themes (Topics Not Limited to…)

- Advanced AI Techniques : Challenges and Solutions for Biological Research
- Artificial Intelligence and Big Data analytics
- Advanced AI models and its Role in Bioscience
- AI algorithms to Genomics, Proteomics and Proteome informatics
- Generative AI modeling for drug design

Publications

- All registered and presented papers will be published in seminar Proceedings with ISBN Number

Important Dates

- Full Paper Submission : 20.12.2024
- Notification of Acceptance : 23.12.2024
- Registration : 25.12.2024

Registration

- Students (UG&PG) : ₹ 150/-
- Academicians/Research Scholars : ₹ 200/-

SCAN to Register

Contacts

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