Office of International Affairs
and
School of Computing

Jointly organized a Guest Lecture on

Modern Neural Network Architecture

Date: 04th Feb 2026 | **Venue:** IS 611

Report

The Office of International Affairs, in a strategic academic collaboration with the School of Computing at SRM Institute of Science & Technology, Tiruchirappalli, successfully hosted an insightful and high-level guest lecture titled "Modern Neural Network Architecture: GNN & ZNN" on 4th February 2026. The event took place at the IST 611 venue on the 6th floor of the SRMIST building, drawing a significant audience of students, researchers, and faculty members eager to explore the frontiers of artificial intelligence. The session was led by the distinguished Dr. Predrag S. Stanimirović, a Professor from the Faculty of Science and Mathematics, Department of Computer Science at the University of Nis, Serbia. Dr. Stanimirović, a renowned expert in computational mathematics, provided a comprehensive deep dive into two specialized and evolving fields of neural modeling.

The core of the lecture focused on the structural intricacies and mathematical foundations of Graph Neural Networks (GNN) and Zeroing Neural Networks (ZNN). Dr. Stanimirović explained how GNNs revolutionize the processing of non-Euclidean data, allowing for sophisticated analysis of relational data such as social networks, molecular structures, and recommendation systems. He further transitioned into the technical complexities of Zeroing Neural Networks (ZNN), emphasizing their unique capability to solve time-varying problems and complex matrix equations in real-time—a critical requirement for advanced robotics and control systems. By bridging the gap between theoretical mathematical models and practical computational applications, the lecture provided the attendees with a rare international perspective on how these architectures are shaping the next generation of AI. This academic exchange not only enriched the technical knowledge of the participants but also fostered a spirit of global research collaboration between the Indian and Serbian academic communities.

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