For Immediate Release: July 17, 2023

PRESS RELEASE

Special Talk on Physics based Machine Learning approaches for Inverse Problems in Geophysics at IIT (ISM) by Prof Mrinal Kanti Sen, Associate Director, Institute of Geophysics, Jackson School of Geosciences, University of Texas at Austin

Students and faculty members of Applied Geophysics Department of IIT (ISM) Dhanbad today attended the special talk on **Physics based Machine Learning approaches for Inverse Problems in Geophysics** delivered by Prof Mrinal Kanti Sen, Associate Director, Institute of Geophysics, Jackson School of Geosciences, University of Texas at Austin held at conference hall of Applied Geophysics Department from 11.30 a.m.

An alumnus of IIT (ISM) Dhanbad (B Sc and M Sc Degrees in Applied Geophysics in 1977 and 1979 , Prof Sen who obtained his PhD Degree in theoretical Seismology from Hawaii Institute of Geophysics during his talk spoke about Machine Learning and Inversion, Physics based linear and nonlinear inversions, generative modelling etc besides other issues.

Prof Sen who holds joint appointments with institute of Geophysics (UTIG) and Department of Geological Sciences (DGS) has been serving as the head of Energy Research Division at UTIG since 2016. He has been a pioneer in field of Seismic Wave Propagation and Inverse Theory Applied to Geophysical Problems.

He has published more than 180 papers and two books and supervised over 50 students. As an author he is widely held in libraries worldwide and recognized by Society of Exploration Geophysistes in 2015 for pioneering development and application of Global Optimization methods in Geophysical Inversion.

Rajni Singh

Dean (Media & Branding)