## SCHEME FOR TRANSFORMATIONAL AND ADVANCED RESEARCH IN SCIENCES (STARS) Recommended proposals in the second call for proposals: Data Science Mathematics

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S.No	Proposal ID	Proposal Title	Principal Investigator	Institution
1	2023-0031	Real-time Trajectory Generation via Stochastic Sequential Quadratic and Linear Programming	Dr. Ketan Rajawat	IIT Kanpur
2	2023-0033	Development of AI/ML based predictive models for association analysis of risk factors and high granular forecasting for air pollutants	Prof. Sarbani Roy	Jadavpur University, Kolkata, West Bengal
3	2023-0182	Data-Driven Cloud-based Control of Connected and Autonomous Vehicles	Dr. Narendra Kumar Dhar	IIT Mandi
4	2023-0184	Identification and Control of Instabilities in Natural Circulation Loops (NCLs) in Thermal and Nuclear Power Plants using Dynamical Systems Theory	Prof. Achintya Mukhopadhyay	Jadavpur University, Kolkata, West Bengal
5	2023-0252	Efficient Algorithms for Large-Scale Public Transit Planning	Dr. Tarun Rambha	IISc Bangalore
6	2023-0264	Modelling and Predicting the Hydro-Meteorological Disasters in Indian Himalayas	Dr. Raju Attada	IISER Mohali
7	2023-0266	Development of an ultrasound-based medical imaging methodology with adaptive image processing algorithms for noninvasive early diagnosis of cancer: an in vitro study	Dr. Debabrata Ghosh	Thapar Institute of Engineering and Technology, Patiala, Punjab
8	2023-0414	Post-quantum Anonymous Authentication: Through the Lens of Lattice Cryptography	Dr. MARIA FRANCIS	IIT Hyderabad
9	2023-0467	Estimation and optimal allocation of relief material during public health emergencies	Prof. Hemant Gehlot	IIT Kanpur
10	2023-0476	Towards Predictive modeling of Indian Summer Monsoon considering Arctic teleconnections using the complexity-based approach.	Prof. Ankit Agarwal	IIT Roorkee

File No.: MoE-STARS/STARS2

08-05-2023

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S.No	Proposal ID	Proposal Title	Principal Investigator	Institution
11	2023-0491	Al Empowered IoT based Miniaturized Lead-less and Patch less Sleep Disorder Monitoring System Design	Prof. Amit Acharyya	IIT Hyderabad
12	2023-0552	Data-driven optimization of surgical fixation technique by fast detection of femur fracture type from X-ray images: An Al based framework	Dr. Souptick Chanda	IIT Guwahati
13	2023-0587	Development of a scalable asynchronous finite-volume solver to study cumulus entrainment	Dr. S. Ravichandran	IIT Bombay
14	2023-0595	Modelling oceanic wave breaking using machine learning, theory and Direct Numerical Simulations (DNS)	Prof. Ratul Dasgupta	IIT Bombay
15	2023-0820	DEEP NEURAL NETWORK PATH TO MULTIPHYSICS MODELING OF HEAT TRANSFER IN POROUS MEDIA	Dr. BANDARU MALLIKARJUN A	B.M.S.COLLEGE OF ENGINEERING, Bengaluru, 560019
16	2023-0825	Developing a post quantum lattice based block cipher	Dr. Dr. Srinivasan Krishnaswamy	IIT Guwahati
17	2023-1053	Development of Intelligent Crop Management System for Recognizing and Supplementing the Crop Healthiness : iCroMaS	Dr. J. Krishnaiah	IIITD&M Kurnool