

## Second List of recommended proposals under SERB-MATRICS Special CoVID-19 Call

<b>S. NO</b>	<b>Filename</b>	<b>PI Name</b>	<b>Institution Name</b>	<b>Project Title</b>	<b>Sub Area</b>
1.	MSC/2020/000165	Dr. Dootika Vats	Indian Institute of Technology Kanpur	Simulating with confidence: Accurate estimation in the study of COVID-19	Statistical Machine Learning, Forecasting and Inferences from Pandemic Data
2.	MSC/2020/000252	Prof. Madhuchhanda Bhattacharjee	University of Hyderabad	Spatio-Temporal Modelling and Analysis of COVID19: A domestic and global perspective	Statistical Machine Learning, Forecasting and Inferences from Pandemic Data

3.	MSC/2020/000319	Dr. M Michael Gromiha	Indian Institute of Technology Chennai	Adapting the standard SIR model for COVID-19 and effects of climate and lockdowns on infectious spread of SARS-CoV-2	Statistical Machine Learning, Forecasting and Inferences from Pandemic Data
4.	MSC/2020/000329	Dr. Malay Bhattacharyya	Indian Statistical Institute Kolkata	Network Based Prediction of COVID-19 Spread in India under Migration	Statistical Machine Learning, Forecasting and Inferences from Pandemic Data
5.	MSC/2020/000345	Dr. Minerva Mukhopadhyay	Indian Institute of Technology Kanpur	Modelling and Prediction of COVID-19 Outbreak: Analyzing Possible Effects of Lockdown, Testing and Urbanicity	Statistical Machine Learning, Forecasting and Inferences from Pandemic Data

6.	MSC/2020/000409	Prof. Susmita Ghosh	Jadavpur University	Identifying Important Factors Impacting the Spread and Mortality Rate of COVID-19 Using Biclustering Approach	Statistical Machine Learning, Forecasting and Inferences from Pandemic Data
7.	MSC/2020/000457	Dr. Ramesh Chandra Poonia	Amity University	Development of Prediction Model for COVID-19 using Machine Learning	Statistical Machine Learning, Forecasting and Inferences from Pandemic Data
8.	MSC/2020/000295	Dr. Peeyush Mehta	Indian Institute of Management Calcutta	Healthcare Supply Chain and Capacity Modeling during a Pandemic	Quantitative Social Science Approaches for Epidemiological Models

9.	MSC/2020/000085	Dr. Ramanathan Srinivasan	Indian Institute of Technology Chennai	An SEIR model to estimate the effect of pharmaceutical and non-pharmaceutical interventions on the spread of Covid19	Mathematical Modeling of COVID-19 Spread
10.	MSC/2020/000186	Prof. Rama Kant	University of Delhi, North Campus	Theoretical Model for Inactivation Kinetics of Infectious Human Corona Virus on Metal Surfaces	Mathematical Modeling of COVID-19 Spread
11.	MSC/2020/000215	Prof. Manoj Varma	Indian Institute of Science Bangalore	Modelling the impact of sensor performance on epidemic management	Mathematical Modeling of COVID-19 Spread

12.	MSC/2020/000289	Prof. Soumyendu Raha	Indian Institute of Science Bangalore	Containment Control over Economics Aware Local COVID-19 Infection Dynamics Networks	Mathematical Modeling of COVID-19 Spread
13.	MSC/2020/000300	Dr. Anubhab Roy	Indian Institute of Technology Chennai	Mathematical modelling of aerosolized transmission of pathogens via turbulent expiratory events	Mathematical Modeling of COVID-19 Spread
14.	MSC/2020/000334	Dr. D Manjunath	Indian Institute of Technology Bombay	Controlling Epidemics	Mathematical Modeling of COVID-19 Spread
15.	MSC/2020/000369	Dr. Nitu Kumari	Indian Institute of Technology, Mandi	Modeling COVID-19 to study the impact of various societal factors on the control of Pandemic	Mathematical Modeling of COVID-19 Spread

16.	MSC/2020/000438	Dr. P. Chellapandi	Bharathidasan University	Repurposing of clinically approved drugs for SARS-CoV-12 (COVID-19) using systems pharmacology-based network modeling	Mathematical Modeling of COVID-19 Spread
17.	MSC/2020/000122	Dr. M.S. Santhanam	Indian Institute of Science Education and Research, Pune	Real-time infectious diseases hazard map for India based on transportation networks	Focused Algorithms for Infectious Disease Modeling
18.	MSC/2020/000350	Prof. Rajat Kumar De	Indian Statistical Institute Kolkata	Understanding the Efficacy of Existing Drug Molecules on COVID-19 through an Interactive Pathway: A Deep Learning based Predictive Model	Focused Algorithms for Infectious Disease Modeling

19.	MSC/2020/000370	Dr. Rati Sharma	Indian Institute of Science Education and Research Bhopal	Modeling the spread of the Covid19 viral infection at the cellular level	Focused Algorithms for Infectious Disease Modeling
20.	MSC/2020/000374	Dr. Rishi Ranjan Singh	Indian Institute of Technology Bhilai	Identifying optimal immunization strategies in Indian context against COVID-19	Focused Algorithms for Infectious Disease Modeling
21.	MSC/2020/000375	Dr. Anupama Sharma	Birla Institute of Technology & Science, Pilani - Goa	Modeling and Forecasting the Effects of Long-Term Interventions on COVID-19 using a Network-based Approach	Focused Algorithms for Infectious Disease Modeling

22.	MSC/2020/000498	Dr. Debashree Bandyopadhyay	Birla Institute of Technology & Science Pilani, Hyderabad Campus	Efficient prediction strategy of covid 19 based on pandemic data and immunoinformatics, integrated on artificial intelligence (AI) platform	Statistical Machine Learning, Forecasting and Inferences from Pandemic Data
23.	MSC/2020/000606	Dr. Deepak N. Subramani	Indian Institute of Science	DECOVID: Data-assimilation and Error Correction Of Viral Infectious Disease Models	Statistical Machine Learning, Forecasting and Inferences from Pandemic Data
24.	MSC/2020/000471	Dr. Wilfred Godfrey Wilson	Atal Bihari Vajpayee Indian Institute of Information Technology and Management	Agent based spatial modeling of covid-19 pandemic for urban areas	Quantitative Social Science Approaches for Epidemiological Models



25.	MSC/2020/000500	Dr. Anurag Singh	National Institute of Technology, Delhi	Development of Dynamic Mathematical Modeling for COVID-19 Spread and Containment	Mathematical Modeling of COVID-19 Spread
26.	MSC/2020/000536	Dr. Mandar M. Inamdar	Indian Institute of Technology Bombay	Modeling the spread of novel coronavirus (SARS-CoV-2) in host tissue and its potential epidemiological implications for COVID-19	Mathematical Modeling of COVID-19 Spread
27.	MSC/2020/000592	Dr. Lopamudra Giri	Indian Institute of Technology	Development of computational and visualization software for evaluating GPCR targeting drugs with the aim of mitigating coronavirus infection level	Focused Algorithms for Infectious Disease Modeling