

USC-IISC 2ND FACULTY RESEARCH ONLINE SYMPOSIUM ON COVID-19

Wednesday, September 16, 2020

8 am to 10:30 am at USC / 8:30 pm to 11:00 pm at IISc

Coordinators: Prof. Cauligi Raghavendra, USC and Prof. P. Vijay Kumar, IISc

Moderator: Tiffany Tay

Zoom Webinar Registration Link: <https://tinyurl.com/USCIIScFacultySymposium>

Agenda

Opening Remarks

8:00 AM to 8:10 AM / 8:30 AM to 8:40 PM

Yannis Yortsos (Dean, Viterbi School of Engineering, USC)

Yadati Narahari (Chair, Division of Electrical, Electronics and Computer Sciences, IISc)

Technical Session

8:10-8:30 AM at USC / 8:40-9:00 PM at IISc

Vijay Chandru, Strand Life Sciences & IISc:

Exponential technologies and the perfect storm for digital health

8:30-8:50 AM at USC / 9:00-9:20 PM, IISc

Yannis Yortsos, Assad Oberai, and Harisankar Ramaswamy, USC:

A comprehensive spatial-temporal infection model, with applications to COVID-19

8:50-9:10 AM at USC / 9:20-9:40 PM at IISc

Sashikumaar Ganesan and Deepak Subramani, IISc:

Spatio-temporal predictive modeling framework for infectious disease spread

9:10-9:30 AM at USC / 9:40-10:00 PM at IISc

Bhaskar Krishnamachari, USC:

Update on Digital Contact Tracing and Risk Estimation for COVID-19

9:30-9:50 AM at USC / 10:00-10:20 PM at IISc

Cyrus Shahabi, USC:

PREP: Pandemic Risk Evaluation Platform -- Beyond Contact Tracing for COVID-19

9:50-10:05 AM at USC / 10:20-10:35 PM at IISc

Rajesh Sundaresan, IISc:

Swabs-to-labs tool and serosurvey designs

10:05-10:20 AM at USC/ 10:35-10:50 PM at IISc

Meher Prakash JNCASR, Santosh Ansumali, JNCASR and Alope Kumar, IISc:

Different stages, Different modeling strategies: Adaptive Strategies for Early Stage, Detailed SAIR modeling for the Intermediate Stage, Space-Time Analytics for a Mature Stage

10:20-10:30 AM at USC/10:50-11:00 PM at IISc

Discussion and Closing