

## 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