

**FLAIR 4BD – IGIDR SUMMER SCHOOL**  
**Special Lecture**  
**'Phase Transition in Random Networks'**  
**July 6, 2019**  
**10:00 – 11:30 am**

**F4**  
**BD**

### **About FLAIR 4BD**

FLAIR 4BD is an initiative of the Indira Gandhi Institute of Development Research (IGIDR) that seeks to **Foster Learning, Analysis, Insights and Research 4 Big Data**. The Summer School is a part of this Initiative and is supported by the Bill and Melinda Gates Foundation. The special lecture aims to provide an analytical framework to understand connections between large amount of information that are characteristics of many social and economic phenomena.

### **About the Speaker**



Professor Srikanth K. Iyer is currently faculty at the Department of Mathematics, Indian Institute of Science, Bangalore. He has a Master's degree from the Indian Institute of Technology, Kanpur, India and a PhD. from the University of California, Santa Barbara, USA. He is the recipient of many prestigious awards including the Young Scientist Award of the Indian Science Congress Association. His research interests are in the areas of network formation, branching processes, stochastic geometry and other related fields. He has worked with the Defence Research and Development Organization (DRDO) on various projects.

### **Some Selected Publications**

Iyer, S.K.; The Random Connection Model - Connectivity, Edge Lengths and Degree Distributions, *Random Structures and Algorithms*, 52(2), 283-300, 2018.

Vaze, R. and Iyer, S. K.; Capacity of Cellular Networks, *WiOpt*, Paris, France, 2017.

Bennett, N., Iyer, S.K. and Rao, J.S.; Semi-parametric Models with Covariates for Lifetime Data Under a General Censoring Scheme with an Application to Contingent Valuation, *Statistica*, 76(4), 327-339, 2017.

Iyer, S.K. and Vaze, R.; Achieving Positive Information Velocity in Wireless Networks, *Annals of Applied Probability*, 27(1), 48-64, 2017.

Iyer, S.K., Vaze, R. and Dheeraj, N.; Autoregressive Cascades in Random Networks, *Physica A: Statistical Mechanics and its Applications*, 447, 345-354, 2016.

