

## PREETAM GHOSH, PhD

Professor, Computer Science, VCU

Engineering Affiliate Professor, Radiation Oncology, VCU Health

### Epidemiological Models & Policymaking for COVID-19

In this talk we will review the state-of-the-art epidemiological models to quantify COVID-19 spread dynamics, including both top-down system dynamics and bottom-up regression-based approaches. We will additionally demonstrate the effects of such models on different types of policymaking problems at multiple scales during a pandemic.

Dr. Preetam Ghosh is a professor in the Department of Computer Science and affiliate professor in the Department of Radiation Oncology at Virginia Commonwealth University. He currently serves as the secretary/treasurer of ACM SIGBIO, chaired the multicriteria decision analysis track at HICSS 2019 and served on the technical program and executive committees of various international conferences including ACM BCB and on the editorial board of journals including *Frontiers in Systems Biology*. He obtained his PhD in computer science from UT-Arlington, completed postdoctoral training in biomedical informatics at UT-Southwestern Medical Center, and also held summer appointments with the wireless gaming division at Nokia Research, systems engineering division at Nortel Research, and the exploratory medicinal services division at Pfizer Global Research. His research interests include algorithms, optimization, stochastic modeling, and simulation that has resulted in several federally funded research projects from NSF, NIH, DoD, and US-VHA.



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**Wednesday, August 12**

12noon–1pm EDT