Topic: Multimodal Problems in Computational Social Sciences

Venue: KD101

Date & Time: 5 February 2024 at 1530 Hrs IST

Abstract:

The availability of multimodal big data has greatly expanded opportunities to study human behavior and societal problems through the prism of computational analyses. Due to its interdisciplinary nature of work and multimodal data, it is intrinsically challenging and requires the development of new collaborations and toolkits. The talk will discuss some related problems in the multimodal computational domain and their solutions leveraging advances in AI. Some problems include but are not limited to (i) user behavior understanding and prediction, (ii) automatic information extraction from given multimedia data, (iii) automatic generation of multimedia content, (iv) leveraging behavioral footprints such as gaze, typing, swiping, and mouse movements for user authentication at social media platforms, improving NLP models among others.

Biography:

Rajiv Ratn Shah currently works as an Associate Professor in the Department of Computer Science and Engineering (jointly with the Department of Human-centered Design). He is also the head of TCS Center of Design and New Media, and MIDAS Research Lab at IIIT-Delhi. He received his Ph.D. in Computer Science from the National University of Singapore, Singapore. Before joining IIIT-Delhi, he worked as a Research Fellow in the Living Analytics Research Center at the Singapore Management University, Singapore. Dr. Shah is the recipient of several awards, including the prestigious Heidelberg Laureate Forum (HLF), European Research Consortium for Informatics and Mathematics (ERCIM) fellowships, and best papers at many conferences. He is involved in organizing and reviewing many top-tier international conferences and journals. His research interests include multimedia content processing, natural language processing, image processing, speech processing, multimodal computing, and social media computing.