

ACM Fellow Distinguished Lecture

Towards High-Quality Data for Responsible Data Science

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Hosts: Shantanu Sharma and Vincent Oria

Date: Wednesday, September 11, 2024

Coffee: 2:15 PM – 2:30 PM

Time: 2:30 PM – 3:30 PM

Location: GITC 1100 (1st Floor Seminar Lecture Hall)

Zoom Link: <https://njit-edu.zoom.us/j/96490965898?pwd=Z4VSGiC97ODoXKBInnFS01veVbvb8q.1>

Abstract:

Data are being generated, collected and analyzed today at an unprecedented scale, and data-driven decision making is sweeping through all aspects of society. As the use of data has grown, so too have concerns that poor quality data, prevalent in large data sets, can have serious adverse consequences on data-driven decision making. Responsible data science thus requires a recognition of the importance of data quality. In this talk, we present a vision of high-quality data and highlight the substantial challenges of ensuring quality in data. Due to the volume and velocity of data, one needs to identify and possibly repair poor quality data in a scalable and timely manner. With the variety of data, often from a diversity of sources, data quality rules cannot be specified a priori; one needs to let the “data to speak for itself.” We conclude with some recent results relevant to data quality that are cause for optimism.



BIO:

Divesh Srivastava is the head of Database Research at AT&T. He is a Fellow of the Association for Computing Machinery (ACM), the President of the VLDB Endowment, on the Board of Directors of the Computing Research Association (CRA), co-chair of the ACM Publications Board, and the Chair of the Steering Committee of the ACM/IMS Journal of Data Science. He is a recipient of the 2021 IEEE TCDE Impact Award and the 2021 ACM SIGMOD Contributions Award. He has conducted research on a wide variety of topics in data management for three decades, has published over 400 technical articles in journals and peer-reviewed conferences, and has over 100 US patents issued. He received his Ph.D. from the University of Wisconsin, Madison, and his Bachelor of Technology from the Indian Institute of Technology, Bombay, India.