

# M. Tamer Özsu

University Professor, University of Waterloo

## A Systematic View of Data Science



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### Abstract

There is a data-driven revolution underway in science and society, disrupting every form of enterprise. We are collecting and storing data more rapidly than ever before. There is an increasing recognition that data science can assist in leveraging this data and the insights obtained from it into products, systems, and policies. This has resulted in the formation within academia of data science research centres, institutes and even academic units and the establishment of major initiatives within every major industrial organization. However, our understanding of data science is vague and highly varied and, in many cases, are squeezed to fit the available openings within an institution. There is a need to approach this field systematically to define its scope and its boundaries. The objective of this talk is to provide such a consistent and systematic study of the scoping of data science.

### Biography

M. Tamer Özsu is a University Professor at Cheriton School of Computer Science at University of Waterloo. Previously, he was the Director of the Cheriton School and Associate Dean (Research) of the Faculty of Mathematics. His research is on data engineering aspects of data science focusing on distributed data management and the management of non-conventional data. He is a Fellow of the Royal Society of Canada, American Association for the Advancement of Science, Association for Computing Machinery and Institute of Electrical and Electronics Engineers, an elected member of Science Academy, Turkey and a member of Sigma Xi. Dr. Özsu is the recipient of the IEEE Innovation in Societal Infrastructure Award (2022), CS-Can/Info-Can Lifetime Achievement Award (2018), ACM SIGMOD Test-of-Time Award (2015), the ACM SIGMOD Contributions Award (2006), and The Ohio State University College of Engineering Distinguished Alumnus Award (2008). He is the Founding Editor-in-Chief of ACM Books (2014-2020) and the Founding Series Editor of Synthesis Lectures on Data Management (2009-2014). He serves on the editorial boards of three journals and one book series. He co-edited with Ling Liu the Encyclopedia of Data Management.