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The Road from data mining to data Science

Explosion of digital data and its diversity over the past decade has been challenging both scientists and practitioners. Vast amounts of data are generated and transmitted daily. It is estimated that the exponential growth rate is expected to continue in a near future. Commercial and governmental organizations have been collecting vast amounts of data. Primary drivers are commercial value and knowledge extraction. Actionable knowledge extraction has been a focus of a wide range of organizations. It is a challenging task that presents numerous difficulties. Data mining had been initially the domain dealing with these difficulties. Over the years it has evolved into a novel field of data science. Data Science is attempting to address data related challenges and opportunities in an interdisciplinary manner. We shall highlight the pertinent transitional aspects as well as interdisciplinary attributes of data science.

Biography

Peter Geczy holds a senior position at the National Institute of Advanced Industrial Science and Technology (AIST). His recent research interests are in information technology intelligence. This multidisciplinary research encompasses development and exploration of future and cutting-edge information technologies. It also examines their impacts on societies, organizations and individuals. Such interdisciplinary scientific interests have led him across domains of technology management and innovation, data science, service science, knowledge management, business intelligence, computational intelligence, and social intelligence. He received several awards in recognition of his accomplishments. He has been serving on various professional boards and committees and has been a distinguished speaker in academia and industry. He is a senior member of IEEE and has been an active member of INFORMS and INNS.

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