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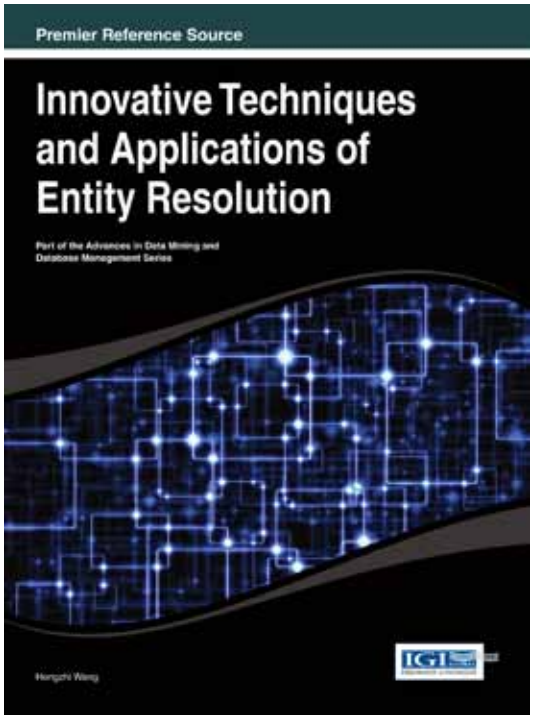
Innovative Techniques and Applications of Entity Resolution



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Hongzhi Wang
(Harbin Institute of Technology, China)

Entity resolution is an essential tool in processing and analyzing data in order to draw precise conclusions from the information being presented. Further research in entity resolution is necessary to help promote information quality and improved data reporting in multidisciplinary fields requiring accurate data representation.

Innovative Techniques and Applications of Entity Resolution draws upon interdisciplinary research on tools, techniques, and applications of entity resolution. This research work provides a detailed analysis of entity resolution applied to various types of data as well as appropriate techniques and applications and is appropriately designed for students, researchers, information professionals, and system developers.

Topics Covered:

- Data Quality
- Algorithms
- Information Management
- Databases
- XML
- Clustering
- Entity Resolution
- Information Integration
- Query Processing

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Hongzhi Wang, Ph.D. is an Associate Professor at Massive Data Computing Center in the Department of Computer Science and Technology, Harbin Institute of Technology, Harbin, China. He received his his BSc, MSc and PHD degrees and computer science from Harbin Institute of Technology in 2001, 2003 and 2008, respectively. His research interest is data and information management in general, particular in areas of big data management, particularly in areas of big data management, data quality, XML and graph data management. He has published more than 100 papers in conferences and journals. He was also awarded Microsoft Fellow, IBM PHD Fellowship and Chinese Excellent Database Engineer. His doctoral dissertation is selected as the outstanding doctoral dissertation by China Computer Federation.

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