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Dr. Torvik is a Research Assistant Professor in the Department of Psychiatry at the University of Illinois at Chicago, where he is managing a literature-based knowledge discovery project called Arrowsmith (jointly funded by the National Library of Medicine and the National Institute of Mental Health; PI: Neil R. Smalheiser, M.D., Ph.D.). He received his B.A. in Mathematics from St. Olaf College in Northfield, MN in 1995, his M.S. in Operations Research from the Oregon State University in Corvallis, OR in 1997, and his Ph.D. in Engineering Science from the Louisiana State University in Baton Rouge, LA in 2002. His Ph.D. dissertation titled "Data Mining and Knowledge Discovery: A Guided Approach Based on Monotone Boolean Functions" was awarded the 2002 LSU Distinguished Dissertation Award. His research interests include mathematical optimization and computational statistics applied to literature-based knowledge discovery and bioinformatics.

Dr. Triantaphyllou did his graduate studies at Penn State University from 1984 to 1990. While at Penn State, he earned a Dual M.S. degree in Environment and Operations Research (OR), an M.S. degree in Computer Science and a Dual Ph.D. degree in Industrial Engineering and Operations Research. Since the spring of 2005 he is a Professor in the Computer Science Department at the Louisiana State University (LSU) in Baton Rouge, LA, U.S.A., after he has served for 11 years as an Assistant, Associate, and Full Professor in the Industrial Engineering Department at the same university. He has also served for one year as an Interim Associate Dean for the College of Engineering at LSU.

His research is focused on decision-making theory and applications, data mining and knowledge discovery, and the interface of operations research and computer science. Since the years he was a graduate student, he has developed new methods for data mining and knowledge discovery and also has explored some of the most fundamental and intriguing subjects in decision making. In 1999

he has received the prestigious IIE (Institute of Industrial Engineers), OR Division, Research Award for his research contributions in the above fields. In 2005 he received an LSU Distinguished Faculty Award as recognition of his research, teaching, and service accomplishments. Some of his graduate students have also received awards and distinctions including the Best Dissertation Award at LSU for Science, Engineering and Technology for the year 2002 (by the co-author of this chapter). In 2000 Dr. Triantaphyllou published a bestseller book on multi-criteria decision-making. Also, in 2006 he published a monograph on data mining and knowledge discovery, besides co-editing a book on the same subject.

He always enjoys sharing the results of his research with his students and is also getting them actively involved in his research activities. He has received teaching awards and distinctions. His research has been funded by federal and state agencies, and the private sector. He has extensively published in some of the top refereed journals and made numerous presentations in national and international conferences.

Dr. Triantaphyllou has a strong inter-disciplinary background. He has always enjoyed organizing multi-disciplinary teams of researchers and practitioners with complementary expertise. These groups try to comprehensively attack some of the most urgent problems in the sciences and engineering. He is a strong believer of the premise that the next round of major scientific and engineering discoveries will come from the work of such inter-disciplinary groups. More details of his work can be found in his web site

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