Special Issue

Data Analysis and Domain Knowledge

Message from the Guest Editor

Data mining and knowledge discovery in data bases have brought new goals to data analysis—to find patterns hidden in given large data, which can be useful for data owners. Fast development of tools for generating and storing data has led to tremendous heterogeneous data sets to be analyzed.

It is thus becoming clearer that the domain knowledge, i.e., the knowledge of the field that the data belongs to, must be considered when analyzing data. The goal of this special issue is to present recent developments in applications of domain knowledge in data analysis. We are especially interested in papers describing tools for formalizations of items of domain knowledge such that the formalized items can be used to generate reasonable analytical questions solvable by available tools for data analysis. We are also interested in papers describing approaches when consequences of formalized items of domain knowledge are automatically filtered out from outputs of analytical procedures. Of course, any other interesting aspects of applications of domain knowledge in data analysis are welcomed.

Guest Editor

Prof. Dr. Jan Rauch

Prague University of Economics and Bussiness, Prague, nám. W. Churchilla 4, 130 67 Prague 3, Czech Republic

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Message from the Editor-in-Chief

The journal *Mathematics* publishes high-quality, refereed papers that treat both pure and applied mathematics. The journal highlights articles devoted to the mathematical treatment of questions arising in physics, chemistry, biology, statistics, finance, computer science, engineering and sociology, particularly those that stress analytical/algebraic aspects and novel problems and their solutions. One of the missions of the journal is to serve mathematicians and scientists through the prompt publication of significant advances in any branch of science and technology, and to provide a forum for the discussion of new scientific developments.

Editor-in-Chief

Prof. Dr. Francisco Chiclana
School of Computer Science and Informatics, De Montfort University, The Gateway, Leicester LE1 9BH, UK

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