

Luc De Raedt  
Arno Siebes (Eds.)

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# Principles of Data Mining and Knowledge Discovery

5th European Conference, PKDD 2001  
Freiburg, Germany, September 2001  
Proceedings

Dedicated to Jan Zytkow



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# Principles Of Data Mining And Knowledge Discovery

**Jan Komorowski,Jan Zatkow**

## **Principles Of Data Mining And Knowledge Discovery:**

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**Scientific Data Mining and Knowledge Discovery** Mohamed Medhat Gaber,2009-09-19 Mohamed

Medhat Gaber It is not my aim to surprise or shock you but the simplest way I can summarise is to say that there are now in the world machines that think that learn and that create Moreover their ability to do these things is going to increase rapidly until in a visible future the range of problems they can handle will be coextensive with the range to which the human mind has been applied by Herbert A Simon 1916 2001 1Overview This book suits both graduate students and researchers with a focus on discovering knowledge from scientific data The use of computational power for data analysis and knowledge discovery in scientific disciplines has found its roots with the revolution of high performance computing systems Computational science in physics chemistry and biology represents the first step towards automation of data analysis tasks The rationale behind the development of computational science in different areas was automating mathematical operations performed in those areas There was no attention paid to the scientific discovery process Automated Scientific Discovery ASD 1.3 represents the second natural step ASD attempted to automate the process of theory discovery supported by studies in philosophy of science and cognitive sciences Although early research articles have shown great successes the area has not evolved due to many reasons The most important reason was the lack of interaction between scientists and the automating systems

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