



# Knowledge Discovery with Support Vector Machines

By Lutz H. Hamel

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**Knowledge Discovery with Support Vector Machines** By Lutz H. Hamel

**An easy-to-follow introduction to support vector machines**

This book provides an in-depth, easy-to-follow introduction to support vector machines drawing only from minimal, carefully motivated technical and mathematical background material. It begins with a cohesive discussion of machine learning and goes on to cover:

- Knowledge discovery environments
- Describing data mathematically
- Linear decision surfaces and functions
- Perceptron learning
- Maximum margin classifiers
- Support vector machines
- Elements of statistical learning theory
- Multi-class classification
- Regression with support vector machines
- Novelty detection

Complemented with hands-on exercises, algorithm descriptions, and data sets, *Knowledge Discovery with Support Vector Machines* is an invaluable textbook for advanced undergraduate and graduate courses. It is also an excellent tutorial on support vector machines for professionals who are pursuing research in machine learning and related areas.

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About the Author

**Lutz Hamel, PhD**, teaches at the University of Rhode Island, where he founded the machine learning and data mining group. His major research interests are computational logic, machine learning, evolutionary computation, data mining, bioinformatics, and computational structures in art and literature.

### Users Review

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The book Knowledge Discovery with Support Vector Machines has a lot associated with on it. So when you read this book you can get a lot of profit. The book was compiled by the very famous author. Mcdougal makes some research previous to write this book. This particular book very easy to read you can get the point easily after perusing this book.

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