

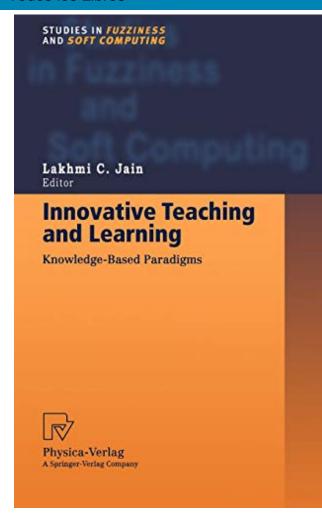
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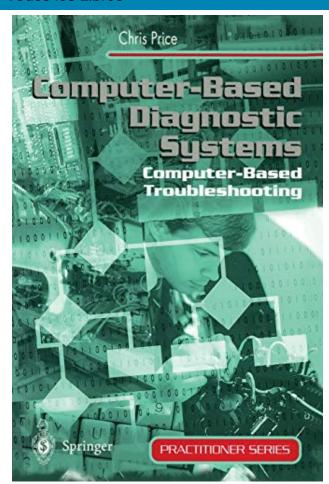
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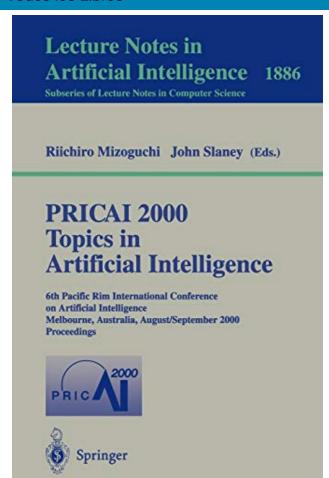
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Rasiah Loganantharaj Günther Palm Moonis Ali (Eds.)

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Methodologies and Approaches

13th International Conference on Industrial and Engineering Applications of Artificial Intelligence and Expert Systems, IEA/AIE 2000 New Orleans, Louisiana, USA, June 2000 Proceedings



Intelligent Problem Solving.

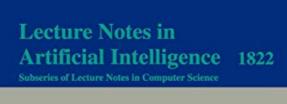
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Howard J. Hamilton

Advances in Artificial Intelligence

13th Biennial Conference of the Canadian Society for Computational Studies of Intelligence, AI 2000 Montréal, Quebec, Canada, May 2000 Proceedings



Advances in Artificial Intelligence: 13th Biennial Conference of the Canadian Society for Computational Studies of Intelligence, AI 2000 Montreal, ... (Lecture Notes in Computer Science, 1822)

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Ramon López de Mántaras Enric Plaza (Eds.)

Machine Learning: ECML 2000

11th European Conference on Machine Learning Barcelona, Catalonia, Spain, May/June 2000 Proceedings



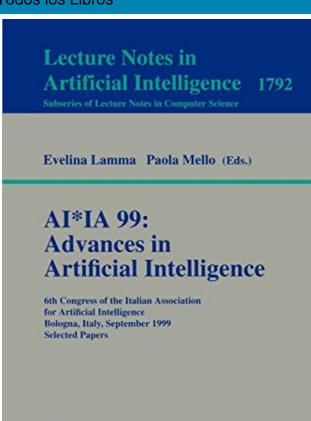
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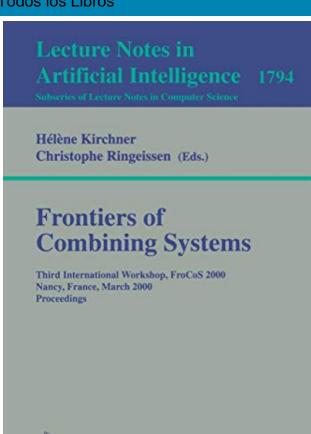
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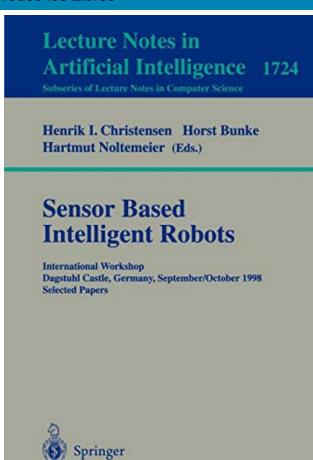
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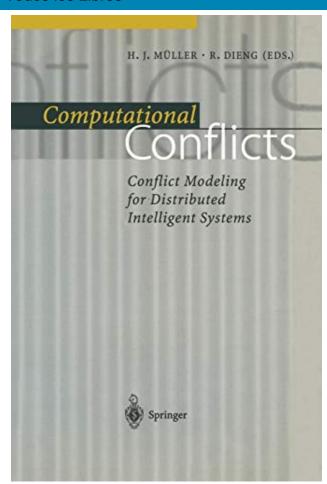
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Norman Foo (Ed.)

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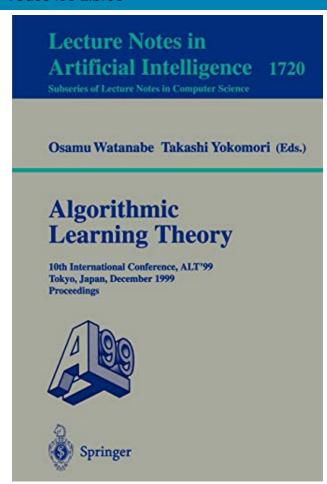
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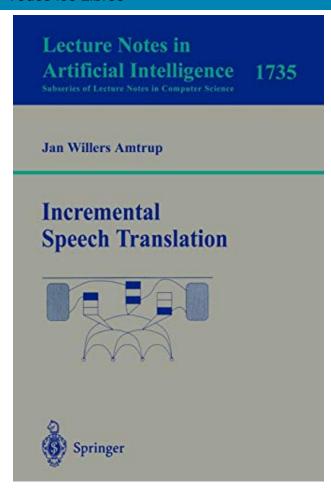
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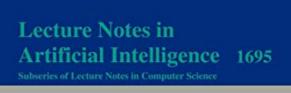
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Pedro Barahona José J. Alferes (Eds.)

Progress in Artificial Intelligence

9th Portuguese Conference on Artificial Intelligence, EPIA'99 Évora, Portugal, September 1999 Proceedings



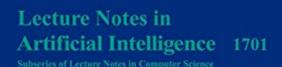
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Wolfram Burgard Thomas Christaller Armin B. Cremers (Eds.)

KI-99: Advances in Artificial Intelligence

23rd Annual German Conference on Artificial Intelligence Bonn, Germany, September 1999 Proceedings



KI-99: Advances in Artificial Intelligence: 23rd Annual German Conference on Artificial Intelligence, Bonn, Germany, September 13-15, 1999 Proceedings (Lecture Notes in Computer Science, 1701)

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Artificial Intelligence Today

Recent Trends and Developments



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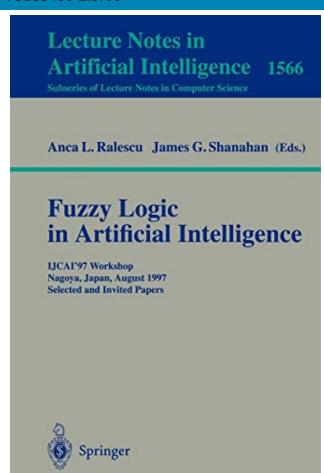
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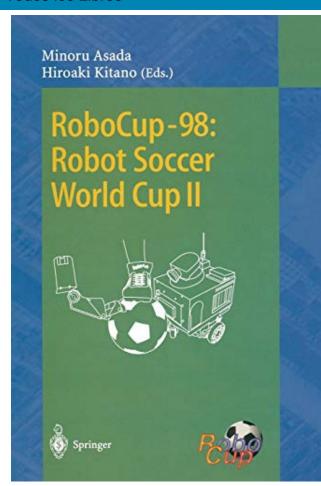
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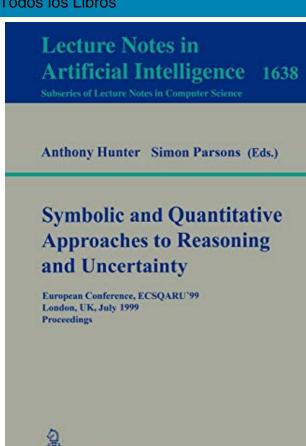
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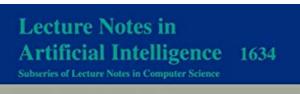
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Inductive Logic Programming

9th International Workshop, ILP-99 Bled, Slovenia, June 1999 Proceedings



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Second International Workshop, HSCC'99 Berg en Dal, The Netherlands, March 1999 Proceedings



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Frank Puppe (Ed.)

XPS-99: Knowledge-Based Systems

Survey and Future Directions

5th Biannual German Conference on Knowledge-Based Systems Würzburg, Germany, March 1999 Proceedings



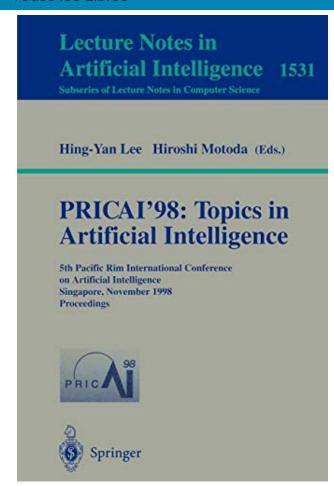
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Jürgen Dix · Luis Farinas del Cerro Ulrich Furbach Editors

Logics in Artificial Intelligence

European Workshop, JELIA '98, Dagstuhl, Germany, October 12–15, 1998, Proceedings Logics in Artificial Intelligence: European Workshop, JELIA '98 Dagstuhl, Germany, October 12–15, 1998 Proceedings (Lecture Notes in Computer Science, 1489)

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Helder Coelho Editor

Progress in Artificial Intelligence — IBERAMIA 98

6th Ibero-American Conference on AI, Lisbon, Portugal, October 5—9, 1998 Progress in Artificial Intelligence?
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Evolutionary Programming VII

7th International Conference, EP98, San Diego, California, USA, March 25–27, 1998, Proceedings

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Alexis Drogoul Milind Tambe Toshio Fukuda (Eds.)

Collective Robotics

First International Workshop, CRW'98 Paris, France, July 1998 Proceedings



Product Description

Collective Robotics: First International Workshop, CRW'98, Paris, France, July 4-5, 1998, Proceedings (Lecture Notes in Computer Science, 1456)

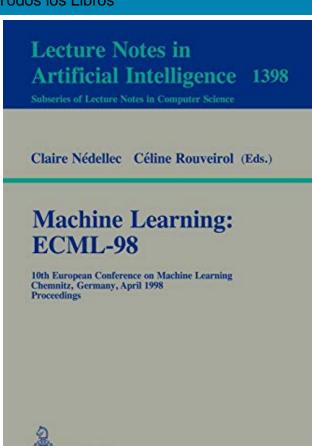
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Machine Learning: ECML-98: 10th European Conference on Machine Learning, Chemnitz, Germany, April 21-23, 1998, Proceedings (Lecture Notes in Computer Science, 1398)

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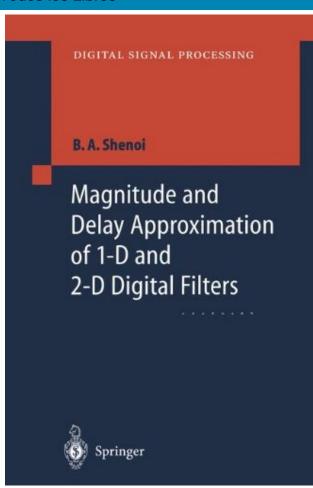
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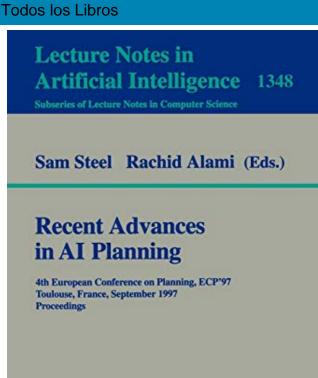
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Recent Advances in Al Planning: 4th European Conference on Planning, ECP'97, Toulouse, France, September 24 - 26, 1997, Proceedings (Lecture Notes in Computer Science, 1348)

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Lecture Notes in Artificial Intelligence 1342

Abdul Sattar (Ed.)

Advanced Topics in Artificial Intelligence

10th Australian Joint Conference on Artificial Intelligence, Al'97 Perth, Australia, November/December 1997 Proceedings



Product Description

Advanced Topics in Artificial Intelligence: 10th Australian Joint Conference on Artificial Intelligence Al'97, Perth, Australia, November 30 - ... (Lecture Notes in Computer Science, 1342)

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Maurizio Lenzerini (Ed.)

AI*IA 97: Advances in Artificial Intelligence

5th Congress of the Italian Association for Artificial Intelligence Rome, Italy, September 1997 Proceedings



Al*IA 97: Advances in Artificial Intelligence: 5th Congress of the Italian Association for Artificial Intelligence, Rome, Italy, September 17-19, ... (Lecture Notes in Computer Science, 1321)

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LEARNING, MEDICAL SCIENCE, ROBOTICS



Enric Plaza Richard Benjamins (Eds.)

Knowledge Acquisition, Modeling and Management

10th European Workshop, EKAW '97 Sant Feliu de Guixols, Catalonia, Spain, October 1997 Proceedings





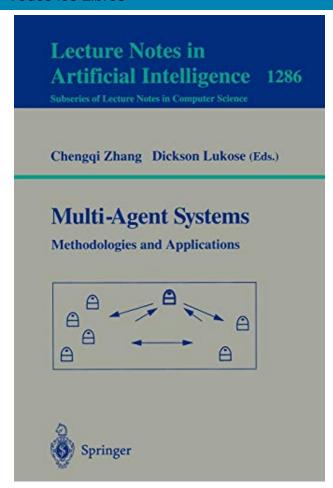
Knowledge Acquisition, Modeling and Management: 10th European Workshop, EKAW'97, Sant Feliu de Guixols, Catalonia, Spain, October 15-18, 1997. Proceedings (Lecture Notes in Computer Science, 1319)

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& TECHNICAL DRAWING, MACHINE LEARNING,
ROBOTICS, TECHNOLOGY: GENERAL ISSUES,
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Multi-Agent Systems Methodologies and Applications: Second Australian Workshop on Distributed Artificial Intelligence, Cairns, QLD, Australia, August ... (Lecture Notes in Computer Science, 1286)

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William McCune (Ed.)

Automated Deduction – CADE-14

14th International Conference on Automated Deduction Townsville, North Queensland, Australia, July 1997 Proceedings



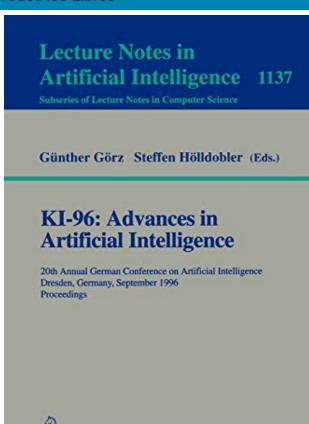
Automated Deduction - CADE-14: 14th International Conference on Automated Deduction, Townsville, North Queensland, Australia, July 13 - 17, 1997, Proceedings (Lecture Notes in Computer Science, 1249)

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ELECTRONICS ENGINEERING, MACHINE LEARNING,
MATHEMATICAL FOUNDATIONS, MATHEMATICAL LOGIC,
MATHEMATICS, MATHEMATICS, REFERENCE, ROBOTICS



KI-96: Advances in Artificial Intelligence: 20th Annual German Conference on Artificial Intelligence Dresden, Germany, September 17 - 19, 1996, Proceedings (Lecture Notes in Computer Science, 1137)

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ANNUALS, ALMANACS

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Díbio L. Borges Celso A.A. Kaestner (Eds.)

Advances in Artificial Intelligence

13th Brazilian Symposium on Artificial Intelligence, SBIA '96 Curitiba, Brazil, October 1996 Proceedings



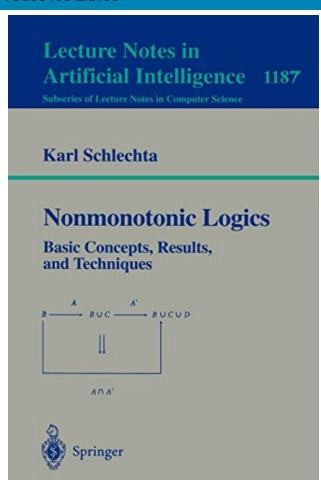
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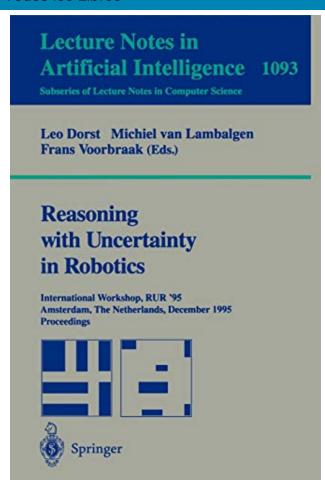
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LEARNING, MATHEMATICAL FOUNDATIONS,
MATHEMATICAL LOGIC, MATHEMATICS, MATHEMATICS,
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Lecture Notes in Computer Science

1064

Bernard Buxton Roberto Cipolla (Eds.)



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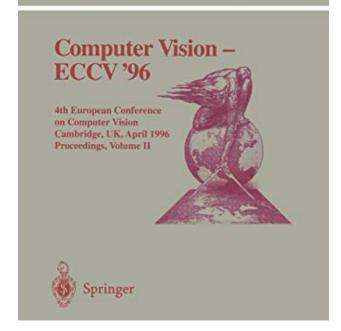
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Third International Conference on Conceptual Strucutres, ICCS '95 Santa Cruz, CA, USA, August 1995 Proceedings



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Ian D. Watson (Ed.)

Progress in Case-Based Reasoning

First United Kingdom Workshop Salford, UK, January 1995 Proceedings



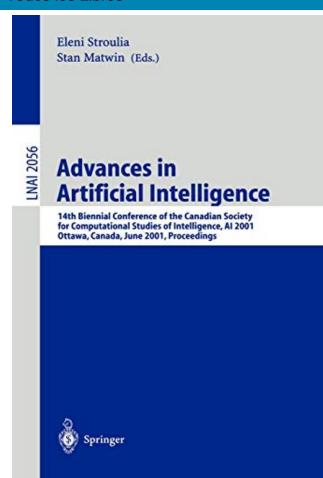
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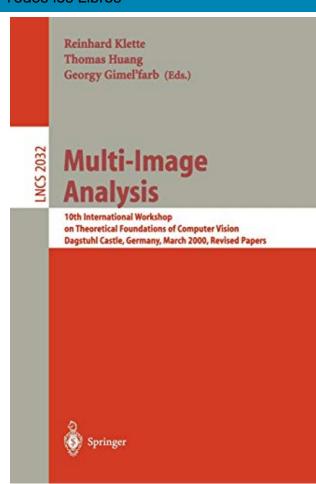
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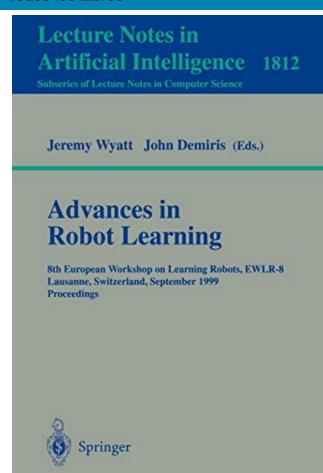
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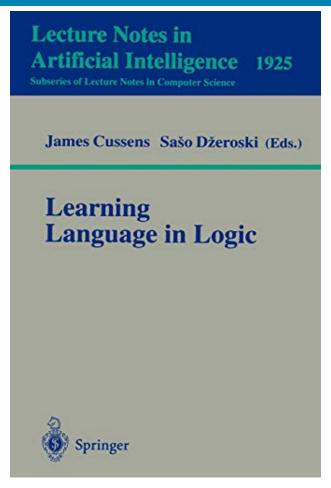
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Learning Language in Logic (Lecture Notes in Computer Science, 1925)

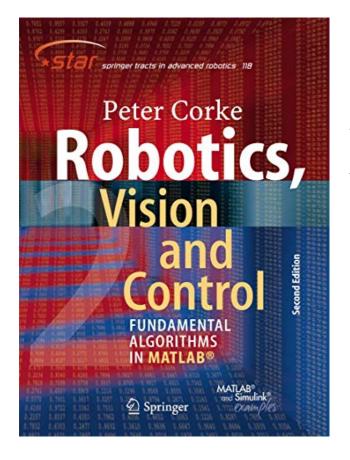
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Robotics, Vision and Control: Fundamental Algorithms In MATLAB, Second Edition (Springer Tracts in Advanced Robotics, 118)

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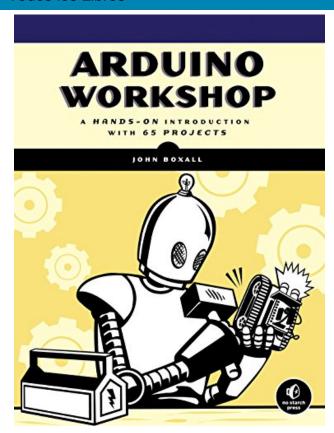
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Categories: Applied optics, Artificial intelligence,
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Robotic vision, the combination of robotics and computer vision, involves the application of computer algorithms to data acquired from sensors. The research community has developed a large body of such algorithms but for a newcomer to the field this can be quite daunting. For over 20 years the author has maintained two open-source MATLAB (R) Toolboxes, one for robotics and one for vision. They provide implementations of many important algorithms and allow users to work with real problems, not just trivial examples. This book makes the fundamental algorithms of robotics, vision and control accessible to all. It weaves together theory, algorithms and examples in a narrative that covers robotics and computer vision separately and together. Using the latest versions of the Toolboxes the author shows how complex problems can be decomposed and solved using just a few simple lines of code. The topics covered are guided by real problems observed by the author over many years as a practitioner of both robotics and computer vision. It is written in an accessible but informative style, easy to read and absorb, and includes over 1000 MATLAB and Simulink (R) examples and over 400 figures. The book is a real walk through the fundamentals of mobile robots, arm robots, then camera models, image processing, feature extraction and multi-view geometry and finally bringing it all together with an extensive discussion of visual servo systems. This second edition is completely revised, updated and extended with coverage of Lie groups, matrix exponentials and twists; inertial navigation; differential drive robots; lattice planners; pose-graph SLAM and map making; restructured material on arm-robot kinematics and dynamics; series-elastic actuators and operational-space control; Lab color spaces; light field cameras; structured light, bundle adjustment and visual odometry; and photometric visual servoing. An authoritative book, reaching across fields, thoughtfully conceived and brilliantly accomplished! OUSSAMA KHATIB, Stanford



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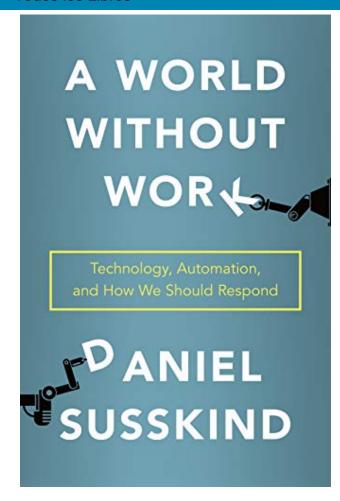
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The Arduino is a cheap, flexible, open source microcontroller platform designed to make it easy for hobbyists to use electronics in homemade projects. With an almost unlimited range of input and output add-ons, sensors, indicators, displays, motors, and more, the Arduino offers you countless ways to create devices that interact with the world around you. In Arduino Workshop, you'll learn how these add-ons work and how to integrate them into your own projects. You'll start off with an overview of the Arduino system but quickly move on to coverage of various electronic components and concepts. Hands-on projects throughout the book reinforce what you've learned and show you how to apply that knowledge. As your understanding grows, the projects increase in complexity and sophistication. Among the book's 65 projects are useful devices like: A digital thermometer that charts temperature changes on an LCD A GPS logger that records data from your travels, which can be displayed on Google M



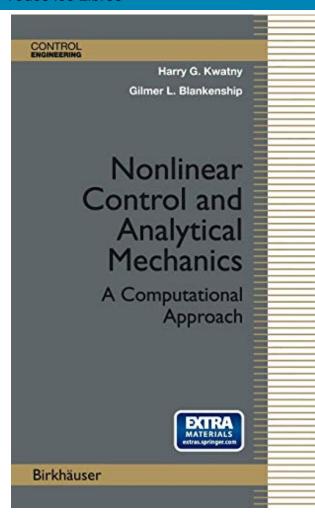
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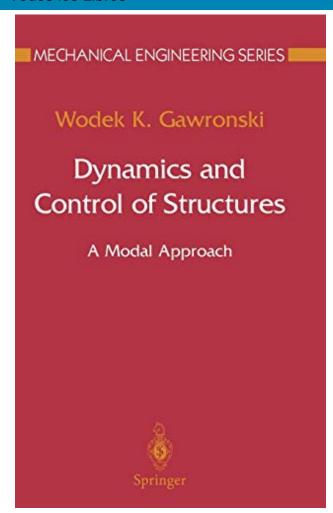
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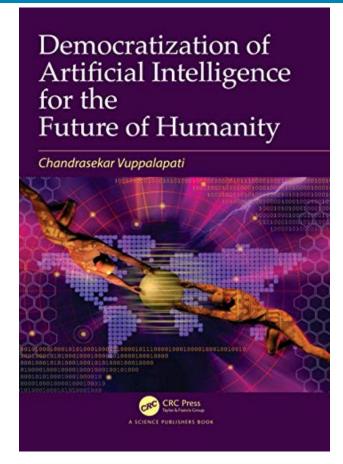
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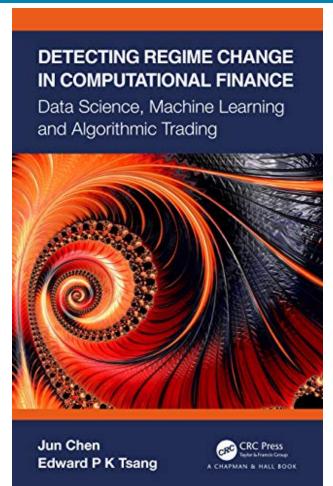
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Product Description

Artificial intelligence (AI) stands out as a transformational technology of the digital age. Its practical applications are growing very rapidly. One of the chief reasons AI applications are attaining prominence, is in its design to learn continuously, from real-world use and experience, and its capability to improve its performance. It is no wonder that the applications of AI span from complex high-technology equipment manufacturing to personalized exclusive recommendations to end-users. Many deployments of AI software, given its continuous learning need, require computation platforms that are resource intense, and have sustained connectivity and perpetual power through central electrical grid. In order to harvest the benefits of AI revolution to all of humanity, traditional AI software development paradigms must be upgraded to function effectively in environments that have resource constraints, small form factor computational devices with limited power, devices with intermittent or no connectivity and/or powered by non-perpetual source or battery power. The aim this book is to prepare current and future software engineering teams with the skills and tools to fully utilize AI capabilities in resource-constrained devices. The book introduces essential AI concepts from the perspectives of full-scale software development with emphasis on creating niche Blue Ocean small form factored computational environment products.



Detecting Regime Change in Computational Finance: Data Science, Machine Learning and Algorithmic Trading

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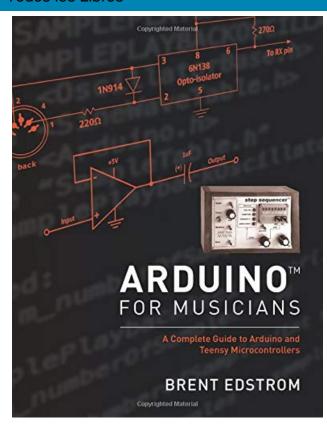
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Price: \$2,098.95

Categories: AUTOMATIC CONTROL ENGINEERING,
COMPUTING AND INFORMATION TECHNOLOGY,
DATABASES, ELECTRONICS & COMMUNICATIONS
ENGINEERING, ELECTRONICS & COMMUNICATIONS
ENGINEERING, ELECTRONICS ENGINEERING, FINANCE,
FINANCE & ACCOUNTING, FINANCE & ACCOUNTING

Product Description

Based on interdisciplinary research into Directional Change, a new data-driven approach to financial data analysis, Detecting Regime Change in Computational Finance: Data Science, Machine Learning and Algorithmic Trading applies machine learning to financial market monitoring and algorithmic trading. Directional Change is a new way of summarising price changes in the market. Instead of sampling prices at fixed intervals (such as daily closing in time series), it samples prices when the market changes direction (zigzags). By sampling data in a different way, this book lays out concepts which enable the extraction of information that other market participants may not be able to see. The book includes a Foreword by Richard Olsen and explores the following topics: Data science: as an alternative to time series, price movements in a market can be summarised as directional changes Machine learning for regime change detection: historical regime changes in a market can be discovered by a Hidden Markov Model Regime characterisation: normal and abnormal regimes in historical data can be characterised using indicators defined under Directional Change Market Monitoring: by using historical characteristics of normal and abnormal regimes, one can monitor the market to detect whether the market regime has changed Algorithmic trading: regime tracking information can help us to design trading algorithms It will be of great interest to researchers in computational finance, machine learning and data science. About the Authors Jun Chen received his PhD in computational finance from the Centre for Computational Finance and Economic Agents, University of Essex in 2019. Edward P K Tsang is an Emeritus Professor at the University of Essex, where he co-founded the Centre for Computational Finance and Economic Agents in 2002.



Arduino for Musicians: A Complete Guide to Arduino and Teensy Microcontrollers

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SKU: 9780199309320

Price: \$943.95

Categories: ARTS, AUTOMATIC CONTROL ENGINEERING, COMPUTER PROGRAMMING / SOFTWARE
DEVELOPMENT, COMPUTING AND INFORMATION
TECHNOLOGY, Electronic music, ELECTRONICS &
COMMUNICATIONS ENGINEERING, ELECTRONICS &
COMMUNICATIONS ENGINEERING, ELECTRONICS
ENGINEERING, MUSIC, MUSIC RECORDING &
REPRODUCTION, Music: styles & genres

Product Description

Arduino, Teensy, and related microcontrollers provide a virtually limitless range of creative opportunities for musicians and hobbyists who are interested in exploring do it yourself technologies. Given the relative ease of use and low cost of the Arduino platform, electronic musicians can now envision new ways of synthesizing sounds and interacting with music-making software. In Arduino for Musicians, author and veteran music instructor Brent Edstrom opens the door to exciting and expressive instruments and control systems that respond to light, touch, pressure, breath, and other forms of real-time control. He provides a comprehensive guide to the underlying technologies enabling electronic musicians and technologists to tap into the vast creative potential of the platform. Arduino for Musicians presents relevant concepts, including basic circuitry and programming, in a building-block format that is accessible to musicians and other individuals who enjoy using music technology. In addition to comprehensive coverage of music-related concepts including direct digital synthesis, audio input and output, and the Music Instrument Digital Interface (MIDI), the book concludes with four projects that build on the concepts presented throughout the book. The projects, which will be of interest to many electronic musicians, include a MIDI breath controller with pitch and modulation joystick, retro step sequencer, custom digital/analog synthesizer, and an expressive MIDI hand drum. Throughout Arduino for Musicians, Edstrom emphasizes the convenience and accessibility of the equipment as well as the extensive variety of instruments it can inspire. While circuit design and programming are in themselves formidable topics, Edstrom introduces their core concepts in a practical and straightforward manner that any reader with a background or interest in electronic music can utilize. Musicians and hobbyists at many levels, from those interested in creating new electronic music devices, to those with experience in synthesis or processing software, will welcome Arduino for Musicians.