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Formal Concept Analysis

How Humans Recognize Objects: Segmentation, Categorization and Individual Identification

OAR Quarterly Index of Current Research Results

Image and Signal Processing

Large-Scale Scientific Computations

Artificial Intelligence in Education

Nonlinear Control Systems Design 1989

Diversity in Mathematics Education

Computational Science and Its Applications - ICCSA 2014

Secrets of Great Teachers

Phenomena Beyond the Standard Model: What Do We Expect for New Physics to Look Like?

Future of STEM education: Multiple perspectives from researchers

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Math with Bad Drawings

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## **ARMSTRONG MCKENZIE**

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*Formal Concept Analysis* Springer Nature  
Featuring contributions from industry and academia, this volume includes chapters covering a diverse range of theoretical and empirical aspects of actuarial science and quantitative finance, including portfolio management, derivative valuation, risk theory and the

economics of insurance. Developed from the First International Congress on Actuarial Science and Quantitative Finance, held at the Universidad Nacional de Colombia in Bogotá in June 2014, this volume highlights different approaches to issues arising from industries in the Andean and Caribbean regions. Contributions address topics such as Reverse mortgage schemes and urban dynamics, modeling spot price dynamics in the electricity market, and

optimizing calibration and pricing with SABR models.

*How Humans Recognize Objects: Segmentation, Categorization and Individual Identification* Cambridge University Press

This volume constitutes the proceedings of the 16th International Conference on Intelligent Tutoring Systems, ITS 2020, held in Athens, Greece, in June 2020. The 23 full papers and 31 short papers presented in this volume were carefully reviewed and selected from 85 submissions. They reflect a variety of new techniques, including multimodal affective computing, explainable AI, mixed-compensation multidimensional item response, ensemble deep learning, cohesion network analysis, spiral of silence, conversational agent, semantic

web, computer-supported collaborative learning, and social network analysis.

**OAR Quarterly Index of Current Research Results** Springer

No detailed description available for "American Universities and Colleges".

*Image and Signal Processing* Springer Nature

A groundbreaking introduction to vectors, matrices, and least squares for engineering applications, offering a wealth of practical examples.

**Large-Scale Scientific Computations**

Simon and Schuster

This book constitutes the refereed proceedings of the 12th International Conference on Formal Concept Analysis, ICFCA 2014, held in Cluj-Napoca, Romania, in June 2014. The 16 regular papers presented together with 3 invited

talks were carefully reviewed and selected from 39 submissions. The papers in this volume cover a rich range of FCA aspects, such as theory, enhanced FCA. Knowledge discovery and knowledge spaces, as well as methods and applications. In addition the book contains a reprint of the first publication "Sub direct decomposition of concept lattices" by Rudolf Wille.

#### Artificial Intelligence in Education

Springer Nature

Machine learning is one of the fastest growing areas of computer science, with far-reaching applications. The aim of this textbook is to introduce machine learning, and the algorithmic paradigms it offers, in a principled way. The book provides a theoretical account of the fundamentals underlying machine

learning and the mathematical derivations that transform these principles into practical algorithms. Following a presentation of the basics, the book covers a wide array of central topics unaddressed by previous textbooks. These include a discussion of the computational complexity of learning and the concepts of convexity and stability; important algorithmic paradigms including stochastic gradient descent, neural networks, and structured output learning; and emerging theoretical concepts such as the PAC-Bayes approach and compression-based bounds. Designed for advanced undergraduates or beginning graduates, the text makes the fundamentals and algorithms of machine learning accessible to students and non-expert

readers in statistics, computer science, mathematics and engineering.

*Nonlinear Control Systems Design 1989*

Simon and Schuster

Human beings experience a world of objects: bounded entities that occupy space and persist through time. Our actions are directed toward objects, and our language describes objects. We categorize objects into kinds that have different typical properties and behaviors. We regard some kinds of objects – each other, for example – as animate agents capable of independent experience and action, while we regard other kinds of objects as inert. We re-identify objects, immediately and without conscious deliberation, after days or even years of non-observation, and often following changes in the

features, locations, or contexts of the objects being re-identified. Comparative, developmental and adult observations using a variety of approaches and methods have yielded a detailed understanding of object detection and recognition by the visual system and an advancing understanding of haptic and auditory information processing. Many fundamental questions, however, remain unanswered. What, for example, physically constitutes an “object”? How do specific, classically-characterizable object boundaries emerge from the physical dynamics described by quantum theory, and can this emergence process be described independently of any assumptions regarding the perceptual capabilities of observers? How are visual motion and

feature information combined to create object information? How are the object trajectories that indicate persistence to human observers implemented, and how are these trajectory representations bound to feature representations? How, for example, are point-light walkers recognized as single objects? How are conflicts between trajectory-driven and feature-driven identifications of objects resolved, for example in multiple-object tracking situations? Are there separate “what” and “where” processing streams for haptic and auditory perception? Are there haptic and/or auditory equivalents of the visual object file? Are there equivalents of the visual object token? How are object-identification conflicts between different perceptual systems resolved? Is the common assumption

that “persistent object” is a fundamental innate category justified? How does the ability to identify and categorize objects relate to the ability to name and describe them using language? How are features that an individual object had in the past but does not have currently represented? How are categorical constraints on how objects move or act represented, and how do such constraints influence categorization and the re-identification of individuals? How do human beings re-identify objects, including each other, as persistent individuals across changes in location, context and features, even after gaps in observation lasting months or years? How do human capabilities for object categorization and re-identification over time relate to those of other species, and

how do human infants develop these capabilities? What can modeling approaches such as cognitive robotics tell us about the answers to these questions? Primary research reports, reviews, and hypothesis and theory papers addressing questions relevant to the understanding of perceptual object segmentation, categorization and individual identification at any scale and from any experimental or modeling perspective are solicited for this Research Topic. Papers that review particular sets of issues from multiple disciplinary perspectives or that advance integrative hypotheses or models that take data from multiple experimental approaches into account are especially encouraged.

### **Diversity in Mathematics Education**

### **Solution Tree Press**

Learn everything you need to know to implement an integrated system of assessment and grading. The author details the specific benefits of formative assessment and explains how to design and interpret three different types of formative assessments, how to track student progress, and how to assign meaningful grades. Detailed examples bring each concept to life, and chapter exercises reinforce the content.

### **Computational Science and Its Applications - ICCSA 2014** Springer

This book constitutes the thoroughly refereed post-conference proceedings of the 9th International Conference on Large-Scale Scientific Computations, LSSC 2013, held in Sozopol, Bulgaria, in June 2013. The 74 revised full papers



presented together with 5 plenary and invited papers were carefully reviewed and selected from numerous submissions. The papers are organized in topical sections on numerical modeling of fluids and structures; control and uncertain systems; Monte Carlo methods: theory, applications and distributed computing; theoretical and algorithmic advances in transport problems; applications of metaheuristics to large-scale problems; modeling and numerical simulation of processes in highly heterogeneous media; large-scale models: numerical methods, parallel computations and applications; numerical solvers on many-core systems; cloud and grid computing for resource-intensive scientific applications.

**Secrets of Great Teachers** Springer

In the last two decades, the development of specific methodologies for the control of systems described by nonlinear mathematical models has attracted an ever increasing interest. New breakthroughs have occurred which have aided the design of nonlinear control systems. However there are still limitations which must be understood, some of which were addressed at the IFAC Symposium in Capri. The emphasis was on the methodological developments, although a number of the papers were concerned with the presentation of applications of nonlinear design philosophies to actual control problems in chemical, electrical and mechanical engineering.

*Phenomena Beyond the Standard Model: What Do We Expect for New Physics to*

*Look Like?* World Scientific Publishing Company  
 Barron's Regents Exams and Answers: Algebra I provides essential review for students taking the Algebra I Regents, including actual exams administered for the course, thorough answer explanations, and comprehensive review of all topics. This edition features: Six actual, administered Regents exams so students can get familiar with the test  
 Comprehensive review questions grouped by topic, to help refresh skills learned in class  
 Thorough explanations for all answers  
 Score analysis charts to help identify strengths and weaknesses  
 Study tips and test-taking strategies  
 All pertinent math topics are covered, including sets, algebraic language, linear equations and formulas, ratios, rates,

and proportions, polynomials and factoring, radicals and right triangles, area and volume, and quadratic and exponential functions.

**Future of STEM education: Multiple perspectives from researchers**

Springer

This two-volume set LNCS 11625 and 11626 constitutes the refereed proceedings of the 20th International Conference on Artificial Intelligence in Education, AIED 2019, held in Chicago, IL, USA, in June 2019. The 45 full papers presented together with 41 short, 10 doctoral consortium, 6 industry, and 10 workshop papers were carefully reviewed and selected from 177 submissions. AIED 2019 solicits empirical and theoretical papers particularly in the following lines of research and

application: Intelligent and interactive technologies in an educational context; Modelling and representation; Models of teaching and learning; Learning contexts and informal learning; Evaluation; Innovative applications; Intelligent techniques to support disadvantaged schools and students, inequity and inequality in education.

*Computational Methods Of Linear Algebra (3rd Edition)* Springer

This volume constitutes the refereed proceedings of the 12th International Conference on Hybrid Artificial Intelligent Systems, HAIS 2017, held in La Rioja, Spain, in June 2017. The 60 full papers published in this volume were carefully reviewed and selected from 130 submissions. They are organized in the following topical sections: data mining,

knowledge discovery and big data; bioinspired models and evolutionary computing; learning algorithms; visual analysis and advanced data processing techniques; data mining applications; and hybrid intelligent applications.

**Math with Bad Drawings** Springer  
This eBook is a collection of articles from a Frontiers Research Topic. Frontiers Research Topics are very popular trademarks of the Frontiers Journals Series: they are collections of at least ten articles, all centered on a particular subject. With their unique mix of varied contributions from Original Research to Review Articles, Frontiers Research Topics unify the most influential researchers, the latest key findings and historical advances in a hot research area! Find out more on how to host your

own Frontiers Research Topic or contribute to one as an author by contacting the Frontiers Editorial Office: [frontiersin.org/about/contact](http://frontiersin.org/about/contact).

### **Intelligent Tutoring Systems**

Cambridge University Press

This book constitutes the refereed proceedings of the 6th International Conference, ICISP 2014, held in June/July 2014 in Cherbourg, France. The 76 revised full papers were carefully reviewed and selected from 164 submissions. The contributions are organized in topical sections on multispectral colour science, color imaging and applications, digital cultural heritage, document image analysis, graph-based representations, image filtering and representation, computer vision and pattern recognition, computer

graphics, biomedical, and signal processing.

Supercomputing Frontiers Media SA Always study with the most up-to-date prep! Look for Let's Review Regents: Algebra I, Fourth Edition, ISBN 9781506291307, on sale January 2, 2024. Publisher's Note: Products purchased from third-party sellers are not guaranteed by the publisher for quality, authenticity, or access to any online entities included with the product.

### **OAR Cumulative Index of Research Results** Springer

This book constitutes the refereed proceedings of the 12th International Conference on Intelligent Tutoring Systems, ITS 2014, held in Honolulu, HI, USA, in June 2014. The 31 revised full papers, 45 short papers and 27 posters

presented were carefully viewed and selected from 177 submissions. The specific theme of the ITS 2014 conference is "Creating fertile soil for learning interactions". Besides that, the highly interdisciplinary ITS conferences bring together researchers in computer science, learning sciences, cognitive and educational psychology, sociology, cognitive science, artificial intelligence, machine learning and linguistics. The papers are organized in topical sections on affect; multimodality and metacognition; collaborative learning; data mining and student behavior; dialogue and discourse; generating hints, scaffolds and questions; game-based learning and simulation; graphical representations and learning; student strategies and problem solving; scaling

ITS and assessment.

*American Universities and Colleges* CRC Press

This book constitutes the refereed proceedings of the 29th International Supercomputing Conference, ISC 2014, held in Leipzig, Germany, in June 2014. The 34 revised full papers presented together were carefully reviewed and selected from 79 submissions. The papers cover the following topics: scalable applications with 50K+ cores; advances in algorithms; scientific libraries; programming models; architectures; performance models and analysis; automatic performance optimization; parallel I/O and energy efficiency.

Intelligent Tutoring Systems Frontiers Media SA

Barron's two-book Regents Algebra I Power Pack provides comprehensive review, actual administered exams, and practice questions to help students prepare for the Algebra I Regents exam. This edition includes: One actual Regents exam online Regents Exams and Answers: Algebra I Six actual, administered Regents exams so students can get familiar with the test Review questions grouped by topic, to help refresh skills learned in class Thorough explanations for all answers Score analysis charts to help identify strengths and weaknesses Study tips and test-taking strategies Let's Review Regents: Algebra I Comprehensive

review of all topics on the test Extra exercise problems with answers Two actual, administered Regents Algebra I exams with answer keys

[OAR Cumulative Index of Research Results](#) Springer

This proceedings volume contains selected papers presented at the 2014 International Conference on Information Engineering and Education Science (ICIEES 2014), held June 12-13 in Hong Kong, China. The objective of ICIEES 2014 was to provide a platform for researchers, engineers, academics as well as industry professionals from all over the world to

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