



Jean-Claude Falmagne  
Jean-Paul Doignon

# Learning Spaces

Interdisciplinary  
Applied Mathematics



Springer

# Learning Spaces Interdisciplinary Applied Mathematics

**Angelo Sifaleras, Fuhua Lin**



## **Learning Spaces Interdisciplinary Applied Mathematics:**

Learning Spaces Jean-Claude Falmagne, Jean-Paul Doignon, 2010-09-10 Learning spaces offer a rigorous mathematical foundation for practical systems of educational technology Learning spaces generalize partially ordered sets and are special cases of knowledge spaces The various structures are investigated from the standpoints of combinatorial properties and stochastic processes Learning spaces have become the essential structures to be used in assessing students competence of various topics A practical example is offered by ALEKS a Web based artificially intelligent assessment and learning system in mathematics and other scholarly fields At the heart of ALEKS is an artificial intelligence engine that assesses each student individually and continuously The book is of interest to mathematically oriented readers in education computer science engineering and combinatorics at research and graduate levels Numerous examples and exercises are included together with an extensive bibliography

Knowledge Spaces Jean-Claude Falmagne, Dietrich Albert, Christopher Doble, David Eppstein, Xiangen Hu, 2013-06-20 The book describes up to date applications and relevant theoretical results These applications come from various places but the most important one numerically speaking is the internet based educational system ALEKS The ALEKS system is bilingual English Spanish and covers all of mathematics from third grade to the end of high school and chemistry It is also widely used in higher education because US students are often poorly prepared when they reach the university level The chapter by Taagepera and Arasasingham deals with the application of knowledge spaces independent of ALEKS to the teaching of college chemistry The four chapters by Albert and his collaborators strive to give cognitive interpretations to the combinatoric structures obtained and used by the ALEKS system The contribution by Eppstein is technical and develops means of searching the knowledge structure efficiently

*Design Recommendations for Intelligent Tutoring System - Volume 5: Assessment Methods* Dr. Robert Sottolare, Dr. Arthur Graesser, Dr. Xiangen Hu, Dr. Gregory Goodwin, 2017-08-28 This book is the fifth in a planned series of books that examine key topics e.g. learner modeling instructional strategies authoring domain modeling assessment impact on learning team tutoring machine learning and potential standards in intelligent tutoring system ITS design through the lens of the Generalized Intelligent Framework for Tutoring GIFT Sottolare Brawner Goldberg Sottolare Brawner Sinatra Johnston 2017 GIFT is a modular service oriented architecture created to reduce the cost and skill required to author ITSs manage instruction within ITSs and evaluate the effect of ITS technologies on learning performance retention transfer of skills and other instructional outcomes Along with this volume the first four books in this series Learner Modeling ISBN 978 0 9893923 0 3 Instructional Management ISBN 978 0 9893923 2 7 Authoring Tools ISBN 978 0 9893923 6 5 and Domain Modeling ISBN 978 0 9893923 9 6 are freely available at [www.GIFTtutoring.org](http://www.GIFTtutoring.org) and on Google Play

Measuring and Visualizing Learning in the Information-Rich Classroom Peter Reimann, Susan Bull, Michael Kickmeier-Rust, Ravi Vatrappu, Barbara Wasson, 2015-11-19 Integrated information systems are increasingly used in schools and the advent of the technology rich classroom requires a new degree of ongoing classroom

assessment Able to track web searches resources used task completion time and a variety of other classroom behaviors technology rich classrooms offer a wealth of potential information about teaching and learning This information can be used to track student progress in languages STEM and in 21st Century skills for instance However despite these changes there has been little change in the kind of data made available to teachers administrators students and parents Measuring and Visualizing Learning in the Information Rich Classroom collects research on the implementation of classroom assessment techniques in technology enhanced learning environments Building on research conducted by a multinational and multidisciplinary team of learning technology experts and specialists from around the globe this book addresses these discrepancies With contributions from major researchers in education technology testing and assessment and education psychology this book contributes to a holistic approach for building the information infrastructure of the 21st Century school

**Knowledge Structures: Recent Developments In Theory And Application** Jurgen Heller, Luca Stefanutti, 2024-07-09

Founded in 1985 by Jean Claude Falmagne and Jean Paul Doignon Knowledge Structure Theory KST constitutes a rigorous and current mathematical theory for the representation and the assessment of human knowledge The seminal work of these authors initiated a highly active research strand with an ever growing literature mostly scattered across various technical journals Starting from a concise but comprehensive introduction to its foundations this volume provides a state of the art review of KST For the first time the volume brings together the most important theoretical developments and extensions of the last decade and presents new areas of application beyond education with contributions by key researchers in the field Among the important advances covered by this book are 1 a comprehensive treatment of probabilistic models in KST 2 polytomous extensions of the theory 3 KST based psychological diagnostics and neuropsychological assessment 4 the representation and assessment of cognitive skills in problem solving as well as procedural skills In addition this book also includes an overview of available software for the application of KST *New Frontiers in Graph Theory* Yagang

Zhang, 2012-03-02 Nowadays graph theory is an important analysis tool in mathematics and computer science Because of the inherent simplicity of graph theory it can be used to model many different physical and abstract systems such as transportation and communication networks models for business administration political science and psychology and so on The purpose of this book is not only to present the latest state and development tendencies of graph theory but to bring the reader far enough along the way to enable him to embark on the research problems of his own Taking into account the large amount of knowledge about graph theory and practice presented in the book it has two major parts theoretical researches and applications The book is also intended for both graduate and postgraduate students in fields such as mathematics computer science system sciences biology engineering cybernetics and social sciences and as a reference for software professionals and practitioners Quantitative Logic and Soft Computing 2016 Tai-He Fan, Shui-Li Chen, San-Min

Wang, Yong-Ming Li, 2016-09-21 This book is the proceedings of the Fourth International Conference on Quantitative Logic

and Soft Computing QLSC2016 held 14-17 October 2016 in Zhejiang Sci Tech University Hangzhou China. It includes 61 papers of which 5 are plenary talks, 3 abstracts and 2 full length talks. QLSC2016 was the fourth in a series of conferences on Quantitative Logic and Soft Computing. This conference was a major symposium for scientists, engineers and practitioners to present their updated results, ideas, developments and applications in all areas of quantitative logic and soft computing. The book aims to strengthen relations between industry research laboratories and universities in fields such as quantitative logic and soft computing worldwide as follows:

- 1 Quantitative Logic and Uncertainty Logic
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Artificial Intelligence Education in the Context of Work Dirk Ifenthaler, Sabine Seufert, 2022-10-28. This edited volume remedies existing deficiencies in the literature on artificial intelligence and education in the context of work. The topics addressed by this book are: Supporting formal and informal learning through AI; Human-machine collaboration for learning at the workplace including the potential of human-AI interaction in professional and vocational education contexts; design, use and evaluation of human-AI hybrid systems for learning; Intelligent and Interactive Technologies for Learning including natural language processing and speech technologies; data mining and machine learning; knowledge representation and reasoning; semantic web technologies; chat bot mediated learning and conversational learning; AI enabled applications for skills management and personalized learning such as AI enabled coaching; personalized skill management and intelligent tutoring systems; Case studies for the implementation and use of AI enabled learning and performance solutions such as personal learning experience platforms and automated performance feedback.

*Knowledge Technology* Dickson Lukose, Abdul Rahim Ahmad, Azizah Suliman, 2012-08-16. This book constitutes the refereed proceedings of the Third Knowledge Technology Week KTW 2011 held in Kajang, Malaysia, in July 2011. The 29 revised full papers presented together with 9 short papers were carefully reviewed and selected from 105 submissions. KTW 2011 consisted of a number of co-located events. This volume contains selected papers from the proceedings of the Third Malaysian Joint Conference on Artificial Intelligence MJCAI 2011, the Third Semantic Technology and Knowledge Engineering STAKE 2011 and the International Workshop on Semantic Agents IWSA 2012.

*Generative Intelligence and Intelligent Tutoring Systems* Angelo Sifaleras, Fuhua Lin, 2024-05-31. This book constitutes the refereed proceedings of the 20th International Conference on Generative Intelligence and Intelligent Tutoring Systems ITS 2024 held in Thessaloniki, Greece, during June 10-13, 2024. The 35 full papers and 28 short papers included in this book were carefully reviewed and selected from 88 submissions. This book also contains 2 invited talks. They were organized in topical sections as follows: Generative Intelligence and Tutoring Systems; Generative Intelligence and Healthcare Informatics; Human Interaction; Games and Virtual Reality; Neural Networks and Data Mining; Generative Intelligence and Metaverse; Security, Privacy and Ethics in Generative Intelligence and Generative Intelligence for Applied Natural Language Processing.

*Formal Concept Analysis* Bernhard Ganter, Rudolf

Wille,2024-07-30 Formal Concept Analysis is a field of applied mathematics based on the mathematization of concept and conceptual hierarchy It thereby activates mathematical thinking for conceptual data analysis and knowledge processing The underlying notion of concept evolved early in the philosophical theory of concepts and still has effects today In mathematics it played a special role during the emergence of mathematical logic in the 19th century Subsequently however it had virtually no impact on mathematical thinking It was not until 1979 that the topic was revisited and treated more thoroughly Since then Formal Concept Analysis has fully emerged sparking a multitude of publications for which the first edition of this textbook established itself as the standard reference in the literature with a total of 10000 citations This is the second edition revised and extended of the textbook published originally in German 1996 and translated into English 1999 giving a systematic presentation of the mathematical foundations while also focusing on their possible applications for data analysis and knowledge processing In times of digital knowledge processing formal methods of conceptual analysis are gaining in importance The book makes the basic theory for such methods accessible in a compact form and presents graphical methods for representing concept systems that have proved themselves essential in communicating knowledge The textbook complements each chapter with further notes references and trends putting the work in modern context and highlighting potential directions for further research Additionally the book contains an entirely new chapter on contextual concept logic including a section on description logics and relational concept analysis As such it should be a valuable resource for students instructors and researchers at the crossroads of subject areas like Applied and Discrete Mathematics Logics Theoretical Computer Science Knowledge Processing Data Science and is meant to be used both for research and in class as a teaching resource

Finite Ordered Sets Nathalie Caspard,Bruno Leclerc,Bernard Monjardet,2012-01-26 A comprehensive account that gives equal attention to the combinatorial logical and applied aspects of partially ordered sets

**Discrete and Computational Geometry and Graphs** Jin Akiyama,Hiro Ito,Toshinori Sakai,2014-11-20 This book constitutes the thoroughly refereed post conference proceedings of the 16th Japanese Conference on Discrete and computational Geometry and Graphs JDCDGG 2013 held in Tokyo Japan in September 2013 The total of 16 papers included in this volume was carefully reviewed and selected from 58 submissions The papers feature advances made in the field of computational geometry and focus on emerging technologies new methodology and applications graph theory and dynamics

*Towards a basic standard methodology for international research in psychology* Miguel Ángel Carrasco,Fco. Pablo Holgado-Tello,José Antonio Lozano Lozano,Susana Sanduvete-Chaves,Salvador Chacón-Moscoso,2023-04-24

**The Measure of All Minds** José Hernández-Orallo,2017-01-11 Are psychometric tests valid for a new reality of artificial intelligence systems technology enhanced humans and hybrids yet to come Are the Turing Test the ubiquitous CAPTCHAs and the various animal cognition tests the best alternatives In this fascinating and provocative book Jos Hernández Orallo formulates major scientific questions integrates the most significant research developments and offers a vision of the universal evaluation of cognition By

replacing the dominant anthropocentric stance with a universal perspective where living organisms are considered as a special case long standing questions in the evaluation of behavior can be addressed in a wider landscape Can we derive task difficulty intrinsically Is a universal g factor a common general component for all abilities theoretically possible Using algorithmic information theory as a foundation the book elaborates on the evaluation of perceptual developmental social verbal and collective features and critically analyzes what the future of intelligence might look like

**Proceedings of the 2024 5th International Conference on Big Data and Informatization Education (ICBDIE 2024)** Miao Yu, Kannimuthu Subramaniyam, Mohammad Akour, Hafizoah Kassim, 2024-05-07 This is an open access book Big data is a large scale and complex data set based on modern information technology It has the characteristics of scale and diversity and its information processing and storage capabilities have been significantly improved The application of big data technology is to fully mine and analyze data build cooperation and interaction between teachers and students encourage students to communicate and interact with teachers and give full play to the education and teaching effect of big data In order to improve teaching quality and efficiency as much as possible all kinds of teaching in the new era must have strong flexibility and foresight so as to adapt to the development of modern society So big data will give greater flexibility to educational activities Therefore big data will give greater flexibility to educational activities and more and more scholars provide new ideas for the above research directions To sum up we will hold an international academic conference on big data and information education The 2024 5th International Conference on Big Data and Informatization Education ICBDIE2024 will be held on January 19 21 2024 in Sanya China ICBDIE 2024 is to bring together innovative academics and industrial experts in the field of Big Data and Informatization Education to a common forum The primary goal of the conference is to promote research and developmental activities in Big Data and Informatization Education and another goal is to promote scientific information interchange between researchers developers engineers students and practitioners working all around the world The conference will be held every year to make it an ideal platform for people to share views and experiences in international conference on Big Data and Informatization Education and related areas

Media Theory David Eppstein, Jean-Claude Falmagne, Sergei Ovchinnikov, 2007-10-25 The focus of this book is a mathematical structure modeling a physical or biological system that can be in any of a number of states Each state is characterized by a set of binary features and differs from some other neighbor state or states by just one of those features In some situations what distinguishes a state S from a neighbor state T is that S has a particular feature that T does not have A familiar example is a partial solution of a jigsaw puzzle with adjoining pieces Such a state can be transformed into another state that is another partial solution or the final solution just by adding a single adjoining piece This is the first example discussed in Chapter 1 In other situations the difference between a state S and a neighbor state T may reside in their location in a space as in our second example in which S and T are regions located on different sides of some common border We formalize the mathematical structure as a

semigroup of messages transforming states into other states Each of these messages is produced by the concatenation of elementary transformations called tokens of information The structure is specified by two constraining axioms One states that any state can be produced from any other state by an appropriate kind of message The other axiom guarantees that such a production of states from other states satisfies a consistency requirement *Handbook of Research on Interdisciplinarity Between Science and Mathematics in Education* Cavadas, Bento, Branco, Neusa, 2023-01-24 Working in an interdisciplinary manner is long pursued but a difficult goal of science and mathematics education The interdisciplinarity of science and mathematics can occur when connections between those disciplines are identified and developed These connections could be expressed in the educational policies curriculum or in the science and mathematics teachers' educational practices Sometimes those connections are scarce but in other moments full integration is achieved The Handbook of Research on Interdisciplinarity Between Science and Mathematics in Education presents results of good practices and interdisciplinary educational approaches in science and mathematics It presents a broad range of approaches for all educational levels from kindergarten to university Covering topics such as computer programming mathematics in environmental issues and simple machines this major reference work is an excellent resource for administrators and educators of both K-12 and higher education government officials pre-service teachers teacher educators librarians researchers and academicians *Cognitive Diagnostic Models: Methods for Practical Applications* Tao Xin, Chun Wang, Ping Chen, Liu Yanlou, 2022-05-06

**STEAM Education in Action: Bridging Creativity and Innovation in Everyday Spaces** M. Şahin Bülbül, 2024-01-01 Discover the transformative power of STEAM education in this groundbreaking exploration of unconventional learning environments From the architectural wonders of museums and the dynamic ecosystems of zoos to the technological marvels of airports and the serene landscapes of gardens this book redefines how and where education can thrive Filled with examples inspiring stories and practical insights this book empowers educators parents and community leaders to integrate Science Technology Engineering Arts and Mathematics into spaces that spark curiosity and foster interdisciplinary learning Whether you're designing classroom projects or rethinking education for the future this resource will guide you in turning everyday environments into vibrant hubs of creativity and innovation Embark on a journey where learning knows no bounds and discover how STEAM education can transform the way we see and interact with the world



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