

Jean-Claude Falmagne Jean-Paul Doignon

Learning spaces

Interdisciplinary Applied Mathematics

Learning Spaces Interdisciplinary Applied Mathematics

University of Colorado Boulder

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 Leaning 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 continously 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 The Mathematical Foundation of Multi-Space Learning Theory Tai Wang, Mengsiying Li,2024-03-12 This book explores the measurement of learning effectiveness and the optimization of knowledge retention by modeling the learning process and building the mathematical foundation of multi-space learning theory Multi-space learning is defined in this book as a micro process of human learning that can take place in more than one space with the goal of effective learning and knowledge retention This book models the learning process as a temporal sequence of concept learning drawing on established principles and empirical evidence It also introduces the matroid to strengthen the mathematical foundation of multi-space learning theory and applies the theory to vocabulary and mathematics learning respectively The results show that for vocabulary learning the method can be used to estimate the effectiveness of a single learning strategy to detect the mutual interference that might exist between learning strategies and to predict the optimal combination of strategies In mathematical learning it was found that timing is crucial in both first learning and second learning in scheduling optimization to maximize the intersection effective interval The title will be of interest to researchers and students in a wide range of areas including educational technology learning sciences mathematical applications and mathematical psychology 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 Sottilare, 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 Sottilare Brawner Goldberg Sottilare 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 978 0 9893923 9 6 are freely available at www GIFTtutoring org and on Google Play Measuring and Visualizing Learning in the Information-Rich Classroom Peter Reimann, Susan Bull, Michael Kickmeier-Rust, Ravi Vatrapu, 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 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 Current Serials Received British Library. Document Supply Centre, 1994 Diverse Issues in Higher Education ,2005 Universities and Colleges of Canada, 1976

Alternative Learning Environments Gary Coates,1974 **The Content-based Classroom** Marguerite Ann Snow,Donna Brinton,1997 Shows how to apply the tenets of a content based approach to language instruction Explores practical models for teacher preparation classrooms strategies and alternative models research and assessment and the

American Universities and Colleges American Council on Education,1997 Produced in collaboration with the American Council on Education Previous editions are cited in BCL3 and Guide to Reference Books Arranged by state some 1 900 institutions are covered including 58 for the first time Material comes directly from the institutions themselves in response to a questionnaire Entries provide both the essential statistical data tuition room board admissions requirements financial aid enrollments and other information important to decision making e g student life library holdings physical plant study abroad programs Enhancing the institution profiles are sections on foreign students at US institutions professional education and the history of higher education in the US among other topics Annotation copyrighted by Book News Inc Portland OR

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