

Teaching Linear Algebra

Sepideh Stewart, Avi Berman, Christine Andrews-Larson
and Michelle Zandieh

In this discussion group, the members of the leadership team gave a brief overview of their research, and posed the following set of research questions for discussion:

- (a) How can applications of Linear Algebra be used as motivation for studying the topic?
- (b) What are the advantages of proving results in Linear Algebra in different ways?
- (c) In what ways can a linear algebra course be adapted to meet the needs of students from other disciplines, such as engineering, physics, and computer science?
- (d) How can challenging problems be used in teaching Linear Algebra?
- (e) In what way should technology be used in teaching Linear Algebra?
- (f) What is the role of visualization in learning Linear Algebra?
- (g) In what order (picture, symbols, definitions and theorems) should we teach Linear Algebra concepts?
- (h) How can we educate the students to appreciate the importance of deep understanding of the Linear Algebra concepts?

Members of the leadership team provided materials for at least 3–4 groups building on themes and resources from their own work which provided the basis for more discussions. Over the two sessions the groups worked on various tasks. These tasks ranged from drawing concept maps of some major linear algebra concepts, to activities that pressed participants to coordinate geometric and algebraic interpretations of solutions to systems of linear equations, to challenging linear algebra tasks.

In the context of these activities, participants offered insights and perspectives from their experiences related to the teaching and learning of linear algebra from their country and institution.

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On The Teaching Of Linear Algebra

Derek Holton



On The Teaching Of Linear Algebra:

On the Teaching of Linear Algebra J.-L. Dorier, 2005-12-27 This book presents the state of the art research on the teaching and learning of linear algebra in the first year of university in an international perspective It provides university teachers in charge of linear algebra courses with a wide range of information from works including theoretical and experimental issues Challenges and Strategies in Teaching Linear Algebra Sepideh Stewart, Christine

Andrews-Larson, Avi Berman, Michelle Zandieh, 2018-02-01 This book originated from a Discussion Group Teaching Linear Algebra that was held at the 13th International Conference on Mathematics Education ICME 13 The aim was to consider and highlight current efforts regarding research and instruction on teaching and learning linear algebra from around the world and to spark new collaborations As the outcome of the two day discussion at ICME 13 this book focuses on the pedagogy of linear algebra with a particular emphasis on tasks that are productive for learning The main themes addressed include theoretical perspectives on the teaching and learning of linear algebra empirical analyses related to learning particular content in linear algebra the use of technology and dynamic geometry software and pedagogical discussions of challenging linear algebra tasks Drawing on the expertise of mathematics education researchers and research mathematicians with experience in teaching linear algebra this book gathers work from nine countries Austria Germany Israel Ireland Mexico Slovenia Turkey the USA and Zimbabwe **The Teaching and Learning of Mathematics at University Level** Derek

Holton, 2006-04-11 This book is the final report of the ICMI study on the Teaching and Learning of Mathematics at University Level As such it is one of a number of such studies that ICMI has commissioned The other Study Volumes cover assessment in mathematics education gender equity research in mathematics education the teaching of geometry and history in mathematics education All of these Study Volumes represent a statement of the state of the art in their respective areas We hope that this is also the case for the current Study Volume The current study on university level mathematics was commissioned for essentially four reasons First universities world wide are accepting a much larger and more diverse group of students than has been the case Consequently universities have begun to adopt a role more like that of the school system and less like the elite institutions of the past As a result the educational and pedagogical issues facing universities have changed Second although university student numbers have increased significantly there has not been a corresponding increase in the number of mathematics majors Hence mathematics departments have to be more aware of their students needs in order to retain the students they have and to attract future students As part of this awareness departments of mathematics have to take the teaching and learning of mathematics more seriously than perhaps they have in the past

Linear Algebra and Learning from Data Gilbert Strang, 2019-01-31 Linear algebra and the foundations of deep learning together at last From Professor Gilbert Strang acclaimed author of Introduction to Linear Algebra comes Linear Algebra and Learning from Data the first textbook that teaches linear algebra together with deep learning and neural nets

This readable yet rigorous textbook contains a complete course in the linear algebra and related mathematics that students need to know to get to grips with learning from data Included are the four fundamental subspaces singular value decompositions special matrices large matrix computation techniques compressed sensing probability and statistics optimization the architecture of neural nets stochastic gradient descent and backpropagation *Using History to Teach Mathematics* Victor J. Katz,2000-09-21 This volume examines how the history of mathematics can find application in the teaching of mathematics itself **Technology and Innovation in Learning, Teaching and Education** Meni Tsitouridou, José A. Diniz, Tassos A. Mikropoulos,2019-05-28 This book constitutes the thoroughly refereed post conference proceedings of the First International Conference on Technology and Innovation in Learning Teaching and Education TECH EDU 2018 held in Thessaloniki Greece on June 20 22 2018 The 30 revised full papers along with 18 short papers presented were carefully reviewed and selected from 80 submissions The papers are organized in topical sections on new technologies and teaching approaches to promote the strategies of self and co regulation learning new TECH to SCRL eLearning 2 0 trends challenges and innovative perspectives building critical thinking in higher education meeting the challenge digital tools in S and T learning exploratory potentialities of emerging technologies in education learning technologies digital technologies and instructional design big data in education and learning analytics **Proceedings Of The 14th International Congress On Mathematical Education (In 2 Volumes)** Jianpan Wang,2024-06-07 The International Congress on Mathematical Education ICME is the largest international conference on mathematics education in the world This quadrennial event is organized under the auspices of the International Commission on Mathematical Instruction ICMI This book the Proceedings of ICME 14 presents the latest trends in mathematics education research and mathematics teaching practices at all levels Each chapter covers an extensive range of topics in mathematics education Volume I consists of 4 Plenary Lectures 3 Plenary Panels 5 Lectures of Awardees 4 Survey Teams 62 Topic Study Groups 13 Discussion Groups 20 Workshops a Thematic Afternoon and an Early Career Researcher Day Plenary Lectures recognize substantial and continuing contributions to the growth of the field of Mathematics Education Plenary Panels address three major challenges currently facing mathematics educators across the globe The Survey Teams have a particular emphasis on identifying and characterizing important new knowledge recent developments new perspectives and emergent issues The Topic Study Groups provides a coverage of important topics in mathematics education Volume II consists of 50 invited lectures which present the work and reflections of both established and emerging researchers from around the world These lectures cover a wide spectrum of topics themes and issues that reflect the latest challenges and development in the field of mathematics education *Multimodal Narratives in Research and Teaching Practices* Lopes, J. Bernardino, Viegas, Maria Clara, Pinto, José Alexandre,2019-02-01 While already validated by the scientific community multimodal narratives have the potential for a broader application especially for improved teaching practices from a professional or a theoretical point of view Applying

multimodal narratives within professional development courses creates a focus on the teaching practices rather than the content itself Multimodal Narratives in Research and Teaching Practices provides educator and researcher perspectives on the use of multimodal narratives as a tool to reflect and improve teaching practices Covering such topics as professional development online learning and teacher education this publication is designed for educators academicians administrators and researchers

Data Processing Techniques and Applications for Cyber-Physical Systems (DPTA 2019)

Chuanhao Huang, Yu-Wei Chan, Neil Yen, 2020-02-03 This book covers cutting edge and advanced research on data processing techniques and applications for Cyber Physical Systems Gathering the proceedings of the International Conference on Data Processing Techniques and Applications for Cyber Physical Systems DPTA 2019 held in Shanghai China on November 15 16 2019 it examines a wide range of topics including distributed processing for sensor data in CPS networks approximate reasoning and pattern recognition for CPS networks data platforms for efficient integration with CPS networks and data security and privacy in CPS networks Outlining promising future research directions the book offers a valuable resource for students researchers and professionals alike while also providing a useful reference guide for newcomers to the field

Information Computing and Applications, Part II Chunfeng Liu, Jincai Chang, Aimin Yang, 2011-12-18 The two volume set CCIS 243 and CCIS 244 constitutes the refereed proceedings of the Second International Conference on Information Computing and Applications ICICA 2010 held in Qinhuaogdao China in October 2011 The 191 papers presented in both volumes were carefully reviewed and selected from numerous submissions They are organized in topical sections on computational statistics social networking and computing evolutionary computing and applications information education and application internet and web computing scientific and engineering computing system simulation computing bio inspired and DNA computing internet and Web computing multimedia networking and computing parallel and distributed computing

Difficulties in the Learning and Teaching of Linear Algebra Michael Haddad, 1999 Two different personal experiences of teaching Linear Algebra are analyzed 1 teaching a college level linear algebra course and 2 being the instructor in a predesigned experiment that investigates a geometric approach to the concepts of vector and linear transformations using the dynamic geometry software Cabri g om tre II The analysis is conducted within a framework of three perspectives on students difficulties in learning Linear Algebra a the nature of Linear Algebra b the didactic decisions made in teaching Linear Algebra and c students ways of thinking and their mathematical backgrounds The historical look at the subject s development reveals that the content of an undergraduate linear algebra course is often the end product of a long process of intellectual struggle and research into deep mathematical problems with which students may never become acquainted in the course of their studies The experiment tries to build up concepts using geometry instead of giving the final product but fails to eliminate the structural approach As a result students still struggled with concepts The detailed discussions of the situations result in an interpretive understanding of the situations Recommendations on improving college

level Linear Algebra courses such as the concentration on computations and future research projects are given

Encyclopedia of Mathematics Education Louise Grinstein, Sally I. Lipsey, 2001-03-15 This single volume reference is designed for readers and researchers investigating national and international aspects of mathematics education at the elementary secondary and post secondary levels It contains more than 400 entries arranged alphabetically by headings of greatest pertinence to mathematics education The scope is comprehensive encompassing all major areas of mathematics education including assessment content and instructional procedures curriculum enrichment international comparisons and psychology of learning and instruction

Mathematicians' Reflections on Teaching Sepideh Stewart, 2023-08-07 This book opens the case on collaboration among mathematicians and mathematics educators The authors of this book provide their research and experience based insights on collaboration to inspire the young generation of the mathematics community to engage in productive collaborations and exchange of knowledge early in their careers These valuable collaborations are anticipated to generate innovative research questions that set new and novel paths for mathematics education research with ample possibilities yet to be realized and discovered

Invited Lectures from the 13th International Congress on Mathematical Education Gabriele Kaiser, Helen Forgasz, Mellony Graven, Alain Kuzniak, Elaine Simmt, Binyan Xu, 2018-02-05 The book presents the Invited Lectures given at 13th International Congress on Mathematical Education ICME 13 ICME 13 took place from 24th 31st July 2016 at the University of Hamburg in Hamburg Germany The congress was hosted by the Society of Didactics of Mathematics Gesellschaft f r Didaktik der Mathematik GDM and took place under the auspices of the International Commission on Mathematical Instruction ICMI ICME 13 the biggest ICME so far brought together about 3500 mathematics educators from 105 countries additionally 250 teachers from German speaking countries met for specific activities The scholars came together to share their work on the improvement of mathematics education at all educational levels The papers present the work of prominent mathematics educators from all over the globe and give insight into the current discussion in mathematics education The Invited Lectures cover a wide spectrum of topics themes and issues and aim to give direction to future research towards educational improvement in the teaching and learning of mathematics education This book is of particular interest to researchers teachers and curriculum developers in mathematics education

Mathematical Methods for Engineering Applications Deolinda M. L. D. Rasteiro, Fatih Yilmaz, Araceli Queiruga-Dios, Jesús Martín Vaquero, Ion Mierlus Mazilu, 2025-08-02 This proceedings volume compiles papers presented at the 5th International Conference on Mathematics and its Applications in Science and Engineering ICMASE 2024 held on September 16 18 2024 by the Polytechnic Institute of Coimbra Portugal The ICMASE 2024 was a hybrid conference featuring both in person and virtual attendance The works in this volume explore recent developments in the application of mathematics to science and engineering focusing on mathematical and computational modeling of real world problems Topics include algebra and number theory analysis geometry statistics computational and discrete mathematics as well as their intersections with

engineering applications Additionally educational aspects of mathematics in engineering fields are addressed This volume is intended for researchers practitioners and graduate students particularly those interested in advanced methods for applying mathematics across various contexts and fields The Mathematics Education for the Future Project. Proceedings of the 13th International Conference Mathematics Education in a Connected World Alan Rogerson, 2015-07-01 This volume contains the papers presented at the International Conference on Mathematics Education in a Connected World held from September 16-21 2015 in Catania Italy The Conference was organized by The Mathematics Education for the Future Project an international educational project founded in 1986

Mathematical Modelling C Haines, P Galbraith, W Blum, S Khan, 2007-08-01 This book continues the ICTMA tradition of influencing teaching and learning in the application of mathematical modelling Each chapter shows how real life problems can be discussed during university lectures in school classrooms and industrial research International experts contribute their knowledge and experience by providing analysis insight and comment whilst tackling large and complex problems by applying mathematical modelling This book covers the proceedings from the Twelfth International Conference on the Teaching of Mathematical Modelling and Applications Covers the proceedings from the Twelfth International Conference on the Teaching of Mathematical Modelling and Applications Continues the ICTMA tradition of influencing teaching and learning in the application of mathematical modelling Shows how real life problems can be discussed during university lectures in school classrooms and industrial research *Proceedings of the 4th International Conference on Internet, Education and Information Technology (IEIT 2024)* Yongjun Feng, Aniruddha Bhattacharjya, Junfeng Diao, Nahed Rajaa Ghlamallah, 2024-11-20 This is an open access book With the development of science and technology information technology and information resources should be actively developed and fully applied in all fields of education and teaching so as to promote the modernization of education and cultivate talents to meet the needs of society From the technical point of view the basic characteristics of educational informatization are digitalization networking intelligentization and multi media From the perspective of education the basic characteristics of educational information are openness sharing interaction and cooperation With the advantage of the network it can provide students with a large amount of information and knowledge by combining different knowledge and information from various aspects in a high frequency Therefore we have intensified efforts to reform the traditional teaching methods and set up a new teaching concept from the interaction between teachers and students in the past to the sharing between students In short it forms a sharing learning mode For all students strive to achieve students learning independence initiative and creativity To sum up we will provide a quick exchange platform between education and information technology so that more scholars in related fields can share and exchange new ideas The 4th International Conference on Internet Education and Information Technology IEIT 2024 will be held on May 17-19 2024 in Kunming China IEIT 2023 is to bring together innovative academics and industrial experts in the field of Internet Education and Information Technology to a common forum The primary goal of

the conference is to promote research and developmental activities in Internet Education and Information Technology 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 Internet Education and Information Technology and related areas

Proof and Other Dilemmas Bonnie Gold,Roger A. Simons,2008 During the first 75 years of the twentieth century almost all work in the philosophy of mathematics concerned foundational questions In the last quarter of the century philosophers of mathematics began to return to basic questions concerning the philosophy of mathematics such as what is the nature of mathematical knowledge and of mathematical objects and how is mathematics related to science Two new schools of philosophy of mathematics social constructivism and structuralism were added to the four traditional views formalism intuitionism logicism and platonism The advent of the computer led to proofs and the development of mathematics assisted by computer and to questions of the role of the computer in mathematics This book of 16 essays all written specifically for this volume is the first to explore this range of new developments in a language accessible to mathematicians Approximately half the essays were written by mathematicians and consider questions that philosophers are not yet discussing The other half written by philosophers of mathematics summarize the discussion in that community during the last 35 years In each case a connection is made to issues relevant to the teach of mathematics

Application of Intelligent Systems in Multi-modal Information Analytics Vijayan Sugumaran,Zheng Xu,Shankar P.,Huiyu Zhou,2019-03-29 This book presents the proceedings of the 2019 International Conference on Intelligent Systems Applications in Multi modal Information Analytics held in Shenyang China on February 19 20 2019 It provides comprehensive coverage of the latest advances and trends in information technology science and engineering addressing a number of broad themes including data mining multi modal informatics agent based and multi agent systems for health and education informatics which inspire the development of intelligent information technologies The contributions cover a wide range of topics AI applications and innovations in health and education informatics data and knowledge management multi modal application management and web social media mining for multi modal informatics Outlining promising future research directions the book is a valuable resource for students researchers and professionals and provides a useful reference guide for newcomers to the field

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