

The Teaching and Learning of Mathematics at University Level

An ICMI Study

**Edited by
Derek Holton**

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Teaching And Learning Of Mathematics At University Level An Icmi Study

**International Commission on
Mathematical Instruction**



Teaching And Learning Of Mathematics At University Level An Icmi Study:

The Teaching and Learning of Mathematics at University Level Derek Holton, 2001-09-30 This is a text that contains the latest in thinking and the best in practice It provides a state of the art statement on tertiary teaching from a multi perspective standpoint No previous book has attempted to take such a wide view of the topic The book will be of special interest to academic mathematicians mathematics educators and educational researchers It arose from the ICMI Study into the teaching and learning of mathematics at university level initiated at the conference in Singapore 1998 **Special Issue for the ICMI Study on the Teaching and Learning of Mathematics at University Level** International Commission on Mathematical Instruction, 2000 *Effective Learning and Teaching in Mathematics and Its Applications* Peter Kahn, Joseph Kyle, 2003-12-16 An exploration of the key issues in the teaching of mathematics a key subject in its own right and one that forms an important part of many other disciplines The Mathematics Teacher in the Digital Era Alison Clark-Wilson, Ornella Robutti, Nathalie Sinclair, 2013-12-08 This volume addresses the key issue of the initial education and lifelong professional learning of teachers of mathematics to enable them to realize the affordances of educational technology for mathematics With invited contributions from leading scholars in the field this volume contains a blend of research articles and descriptive texts In the opening chapter John Mason invites the reader to engage in a number of mathematics tasks that highlight important features of technology mediated mathematical activity This is followed by three main sections An overview of current practices in teachers use of digital technologies in the classroom and explorations of the possibilities for developing more effective practices drawing on a range of research perspectives including grounded theory enactivism and Valsiner's zone theory A set of chapters that share many common constructs such as instrumental orchestration instrumental distance and double instrumental genesis and research settings that have emerged from the French research community but have also been taken up by other colleagues Meta level considerations of research in the domain by contrasting different approaches and proposing connecting or uniting elements **On the Teaching and Learning of Mathematics at University Level**, 1998 **Teaching and Learning of Calculus** David Bressoud, Imène Ghedamsi, Victor Martinez-Luaces, Günter Törner, 2016-06-14 This survey focuses on the main trends in the field of calculus education Despite their variety the findings reveal a cornerstone issue that is strongly linked to the formalism of calculus concepts and to the difficulties it generates in the learning and teaching process As a complement to the main text an extended bibliography with some of the most important references on this topic is included Since the diversity of the research in the field makes it difficult to produce an exhaustive state of the art summary the authors discuss recent developments that go beyond this survey and put forward new research questions *The International Commission on Mathematical Instruction, 1908-2008: People, Events, and Challenges in Mathematics Education* Fulvia Furinghetti, Livia Giacardi, 2023-01-30 The book presents the history of ICMI through a prosopographical approach In other words it pays a lot of attention to the actors of the

International movement The portraits of the members of the ICMI Central Committees 1908 1936 and ICMI Executive Committees 1952 2008 and other eminent figures in ICMI history who have passed away in the first 100 years of its life are the guiding thread of the volume Each portrait includes Biographical information An outline of the various contributions made by the individual in question to the study of problems pertaining to mathematics teaching education Primary bibliography Secondary with particular attention to the publications concerning the teaching of mathematics Images photos book frontispieces relevant manuscripts The authors of the portraits 30 altogether are researchers in the history of mathematics mathematics and mathematics education The focus on the officer's role within ICMI and on his/her contributions to mathematics education make the portraits different from usual biographies In particular since most officers were active mathematicians the portraits shed light on aspects of their lesser known activity Connecting chapters place the action of these figures in the historical context and in the different phases of ICMI history

The Learning and Teaching of Mathematical Modelling Mogens Niss, Werner Blum, 2020-01-16 This book takes stock of the state of affairs of the teaching and learning of mathematical modelling with regard to research development and practice It provides a conceptual framework for mathematical modelling in mathematics education at all education levels as well as the background and resources for teachers to acquire the knowledge and competencies that will allow them to successfully include modelling in their teaching with an emphasis on the secondary school level Mathematics teachers mathematics education researchers and developers will benefit from this book Expertly written and researched this book includes a comprehensive overview of research results in the field an exposition of the educational goals associated with modelling the essential components of modelling competency and an extensive discussion of didactic/pedagogical challenges in modelling Moreover it offers a wide variety of illuminating cases and best practice examples in addition to insights into the focal points for future research and practice *The Learning and Teaching of Mathematical Modelling* is an invaluable resource for teachers researchers textbook authors secondary school mathematics teachers undergraduate and graduate students of mathematics as well as student teachers

The First Sourcebook on Nordic Research in Mathematics Education Bharath Sriraman, Simon Goodchild, Christer Bergsten, Gudbjorg Palsdottir, Lenni Haapasalo, Bettina Dahl Søndergaard, 2010-09-01 The First Sourcebook on Nordic Research in Mathematics Education Norway Sweden Iceland Denmark and contributions from Finland provides the first comprehensive and unified treatment of historical and contemporary research trends in mathematics education in the Nordic world The book is organized in sections coordinated by active researchers in mathematics education in Norway Sweden Iceland Denmark and Finland The purpose of this sourcebook is to synthesize and survey the established body of research in these countries with findings that have influenced ongoing research agendas informed practice framed curricula and policy The sections for each country also include historical articles in addition to exemplary examples of recently conducted research oriented towards the future The book will serve as a standard reference for mathematics

education researchers policy makers practitioners and students both in and outside the Nordic countries **The Professional Education and Development of Teachers of Mathematics** Ruhama Even, Deborah Loewenberg Ball, 2008-11-16 The premise of the 15th ICMI Study is that teachers are key to students opportunities to learn mathematics What teachers of mathematics know care about and do is a product of their experiences and socialization together with the impact of their professional education The Professional Education and Development of Teachers of Mathematics assembles important new international work development research theory and practice concerning the professional education of teachers of mathematics As it examines critical areas to reveal what is known and what significant questions and problems warrant collective attention the volume also contributes to the strengthening of the international community of mathematics educators The Professional Education and Development of Teachers of Mathematics is of interest to the mathematics education community as well as to other researchers practitioners and policy makers concerned with the professional education of teachers **Second Handbook of Research on Mathematics Teaching and Learning** Frank K. Lester, 2007-02-01 The audience remains much the same as for the 1992 Handbook namely mathematics education researchers and other scholars conducting work in mathematics education This group includes college and university faculty graduate students investigators in research and development centers and staff members at federal state and local agencies that conduct and use research within the discipline of mathematics The intent of the authors of this volume is to provide useful perspectives as well as pertinent information for conducting investigations that are informed by previous work The Handbook should also be a useful textbook for graduate research seminars In addition to the audience mentioned above the present Handbook contains chapters that should be relevant to four other groups teacher educators curriculum developers state and national policy makers and test developers and others involved with assessment Taken as a whole the chapters reflects the mathematics education research community s willingness to accept the challenge of helping the public understand what mathematics education research is all about and what the relevance of their research findings might be for those outside their immediate community Research and Development in University Mathematics Education Viviane Durand-Guerrier, Reinhard Hochmuth, Elena Nardi, Carl Winsløw, 2021-04-15 In the last thirty years or so the need to address the challenges of teaching and learning mathematics at university level has become increasingly appreciated by university mathematics teachers and beyond by educational institutions around the world Indeed mathematics is both a condition and an obstacle to success for students in many educational programmes vital to the 21st century knowledge society for example in pure and applied mathematics engineering natural sciences technology economics finance management and so on This breadth of impact of mathematics implies the urgency of developing research in university mathematics education and of sharing results of this research widely This book provides a bespoke opportunity for an international audience of researchers in didactics of mathematics mathematicians and any teacher or researcher with an interest in this area to be informed about

state of the art developments and to heed future research agendas This book emerged from the activities of the research project INDRUM acronym for International Network for Didactic Research in University Mathematics which aims to contribute to the development of research in didactics of mathematics at all levels of tertiary education with a particular concern for the development of early career researchers in the field and for dialogue with university mathematicians The aim of the book is to provide a deep synthesis of the research field as it appears through two INDRUM conferences organised in 2016 and 2018 It is an original contribution which highlights key research perspectives addresses seminal theoretical and methodological issues and reports substantial results concerning the teaching and learning of mathematics at university level including the teaching and learning of specific topics in advanced mathematics across a wide range of university programmes

Research in Collegiate Mathematics Education VII Fernando Hitt,Derek Allan Holton,Patrick W. Thompson,2010-03-05

The present volume of *Research in Collegiate Mathematics Education* like previous volumes in this series reflects the importance of research in mathematics education at the collegiate level The editors in this series encourage communication between mathematicians and mathematics educators and as pointed out by the International Commission of Mathematics Instruction ICMI much more work is needed in concert with these two groups Indeed editors of RCME are aware of this need and the articles published in this series are in line with that goal Nine papers constitute this volume The first two examine problems students experience when converting a representation from one particular system of representations to another The next three papers investigate students learning about proofs In the next two papers the focus is instructor knowledge for teaching calculus The final two papers in the volume address the nature of conception in mathematics Whether they are specialists in education or mathematicians interested in finding out about the field readers will obtain new insights about teaching and learning and will take away ideas that they can use

The Learning and Development of Mathematics

Teacher Educators Merrilyn Goos,Kim Beswick,2021-04-07 Research in mathematics teacher education as a distinctive field of inquiry has grown substantially over the past 10 15 years Within this field there is emerging interest in how mathematics teacher educators MTEs themselves learn and develop Until recently there were few published studies on this topic and the processes by which mathematics teacher educators learn and the forms of knowledge they require for effective practice had not been systematically investigated However researchers in mathematics education are now beginning to investigate the development of MTE expertise and associated issues This volume draws on the latest research and thinking in this area is therefore timely to stimulate future development and directions It will survey the emerging field of inquiry in mathematics education combining the work of established scholars with perspectives of newcomers to the field with the aim of influencing development of the field invite cross cultural comparisons in becoming a mathematics teacher educator by highlighting issues in the development of MTEs in different countries and examine the roles of both mathematics educators and mathematicians in preparing future teachers of mathematics The primary audience will be university based mathematics

teacher educators and MTE researchers and postgraduate research students who are seeking academic careers as MTEs Additional interest may come from teacher educators in disciplines other than mathematics and education policy makers responsible for accreditation and quality control of initial teacher education programs

Teaching Geographic Information Science and Technology in Higher Education David Unwin, Nicholas Tate, Kenneth Foote, David DiBiase, 2011-11-29 Geographic Information Science and Technology GISc T has been at the forefront of education innovation in geography and allied sciences for two decades Teaching Geographic Information Science and Technology in Higher Education is an invaluable reference for educators and researchers working in GISc T providing coverage of the latest innovations in the field and discussion of what the future holds for GI Science education in the years to come This book clearly documents teaching innovations and takes stock of lessons learned from experience in the discipline The content will be of interest both to educators and researchers working in GISc T and to educators in other related fields More importantly this book also anticipates some of the opportunities and challenges in GI Science and Technology education that may arise in the next decade As such it will be of interest to chairs deans administrators faculty in other subfields and educators in general Innovative book taking a look at recent innovations and teaching developments in the course provision of GI Science and Technology in higher education Edited by leaders in the field of GISc T who have been at the forefront of education innovation in GI Science and allied science subjects Provides coverage of GISc Technology in a range of institutional settings from an international perspective at all levels of higher education An invaluable text for all educators within the field of GISc T and allied subjects with advice from experts in the field on best practice Includes coverage and practical advice on curriculum design teaching with GIS technology distance and eLearning with global examples from leading academics in the field

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

Modeling Students' Mathematical Modeling Competencies Richard Lesh, Peter L. Galbraith, Christopher R. Haines, Andrew Hurford, 2013-03-17 Modeling Students Mathematical Modeling Competencies offers welcome clarity and focus to the international research and professional community in mathematics science and engineering education as well as those involved in the sciences of teaching and learning these subjects

Transforming Classroom Practice through Robotics Education Nahid Bayat Bodaghi, Loh Sau Cheong, Loo Chu Kiong, 2018-11-08 This book offers a thorough and reader friendly

discussion of the relevance of incorporating robotics into the 21st century classroom It explores essential topics including outcome based education robotics technology the use robotics in education and its theoretical underpinnings among others It also provides a wide range of examples and figures making the book relevant across multiple disciplines in the social educational and computer sciences As such it will appeal to students teachers researchers and practitioners who intend to conduct robotics training in schools or institutions

Semiotic Approaches in Science Didactics Catherine Houdement,Cécile de Hosson,Christophe Hache,2022-09-21 The sciences are in essence highly semiotized Our ways of thinking and communicating about science are based on permanent transformations from one system of signs to another such as scriptural graphic symbolic oral and gestural signs The semiotic focus studied in this book makes it possible to grasp part of the complexity of teaching and learning phenomena by focusing on the variety of possible interpretations of the signs that circulate within the science classroom Semiotic Approaches in Science Didactics brings together contributions from didactic research involving various disciplines such as mathematics chemistry physics and geography which mobilize different types of semiotic support It offers the key to understanding and even reducing some of the misunderstandings that can arise between a speaker and a receiver in scientific teaching situations

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

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