

Ole Skovsmose
Paola Valero
Ole Ravn Christensen
Editors

University Science and Mathematics Education in Transition

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University Science And Mathematics Education In Transition:

University Science and Mathematics Education in Transition Ole Skovsmose, Paola Valero, Ole Ravn

Christensen, 2008-11-19 More than ever our time is characterised by rapid changes in the organisation and the production of knowledge. This movement is deeply rooted in the evolution of the scientific endeavour as well as in the transformation of the political, economic and cultural organisation of society. In other words, the production of scientific knowledge is changing both with regard to the internal development of science and technology and with regard to the function and role science and technology fulfill in society. This general social context in which universities and knowledge production are placed has been given different names: the informational society, the knowledge society, the learning society, the post industrial society, the risk society or even the post modern society. A common feature of different characterisations of this historic time is the fact that it is a period in construction. Parts of the world, not only of the First World but also chunks of the Developing World, are involved in these transformations. There is a movement from former social, political and cultural forms of organisation which impact knowledge production into new forms. These forms drive us into forms of organisation that are unknown and that for their very same complexity do not show a clear ending stage. Somehow the utopias that guided the ideas of development and progress in the past are not present anymore and therefore the transitions in the knowledge society generate a new uncertain world. We find ourselves and our universities to be in a transitional period in time. In this context it is difficult to avoid considering seriously the challenges that such a complex and uncertain social configuration poses to scientific knowledge, to universities and especially to education in mathematics and science. It is clear that the transformation of knowledge outside universities has implied a change in the routes that research in mathematics, science and technology has taken in the last decades. It is also clear that in different parts of the world these changes have happened at different points in time. While universities in the New World, the American Continent, Africa, Asia and Oceania have accommodated their operation to the challenges of the construction in the new world, in many European countries universities with a longer existence and tradition have moved more slowly into this time of transformation and have been responding at a less rapid pace to environmental challenges. The process of tuning universities together with their forms of knowledge production and their provision of education in science and mathematics with the demands of the informational society has been a complex process as complex as the general transformation undergoing in society. Therefore an understanding of the current transitions in science and mathematics education has to consider different dimensions involved in such a change. Traditionally educational studies in mathematics and science education have looked at changes in education from within the scientific disciplines and in the closed context of the classroom. Although educational change in the very end is implemented in everyday teaching and learning situations, other parallel dimensions influencing these situations cannot be forgotten. An understanding of the actual potentialities and limitations of educational transformations are highly dependent on the network

of educational cultural administrative and ideological views and practices that permeate and constitute science and mathematics education in universities today This book contributes to understanding some of the multiple aspects and dimensions of the transition of science and mathematics education in the current informational society Such an understanding is necessary for finding possibilities to improve science and mathematics education in universities all around the world Such a broad approach to the transitions happening in these fields has not been addressed yet by existing books in the market

University Science and Mathematics Education in Transition Ole Skovsmose, Paola Valero, Ole Ravn Christensen, 2010-10-18 More than ever our time is characterised by rapid changes in the organisation and the production of knowledge This movement is deeply rooted in the evolution of the scientific endeavour as well as in the transformation of the political economic and cultural organisation of society In other words the production of scientific knowledge is changing both with regard to the internal development of science and technology and with regard to the function and role science and technology fulfill in society This general social context in which universities and knowledge production are placed has been given different names the informational society the knowledge society the learning society the post industrial society the risk society or even the post modern society A common feature of different characterisations of this historic time is the fact that it is a period in construction Parts of the world not only of the First World but also chunks of the Developing World are involved in these transformations There is a movement from former social political and cultural forms of organisation which impact knowledge production into new forms These forms drive us into forms of organisation that are unknown and that for their very same complexity do not show a clear ending stage Somehow the utopias that guided the ideas of development and progress in the past are not present anymore and therefore the transitions in the knowledge society generate a new uncertain world We find ourselves and our universities to be in a transitional period in time In this context it is difficult to avoid considering seriously the challenges that such a complex and uncertain social configuration poses to scientific knowledge to universities and especially to education in mathematics and science It is clear that the transformation of knowledge outside universities has implied a change in the routes that research in mathematics science and technology has taken in the last decades It is also clear that in different parts of the world these changes have happened at different points in time While universities in the New World the American Continent Africa Asia and Oceania have accommodated their operation to the challenges of the construction in the new world in many European countries universities with a longer existence and tradition have moved more slowly into this time of transformation and have been responding at a less rapid pace to environmental challenges The process of tuning universities together with their forms of knowledge production and their provision of education in science and mathematics with the demands of the informational society has been a complex process as complex as the general transformation undergoing in society Therefore an understanding of the current transitions in science and mathematics education has to consider different dimensions involved in such a change

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Education Ghislaine Gueudet,Marianna Bosch,Andrea A. diSessa,Oh Nam Kwon,Lieven Verschaffel,2016-07-07 This book examines the kinds of transitions that have been studied in mathematics education research It defines transition as a process of change and describes learning in an educational context as a transition process The book focuses on research in the area of mathematics education and starts out with a literature review describing the epistemological cognitive institutional and sociocultural perspectives on transition It then looks at the research questions posed in the studies and their link with transition and examines the theoretical approaches and methods used It explores whether the research conducted has led to the identification of continuous processes successive steps or discontinuities It answers the question of whether there are difficulties attached to the discontinuities identified and if so whether the research proposes means to reduce the gap to create a transition The book concludes with directions for future research on transitions in mathematics education

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

Practice-Oriented Research in Tertiary Mathematics Education Rolf Biehler, Michael Liebendörfer, Ghislaine Gueudet, Chris Rasmussen, Carl Winsløw, 2023-01-01 This edited volume presents a broad range of original practice oriented research studies about tertiary mathematics education These are based on current theoretical frameworks and on established and innovative empirical research methods It provides a relevant overview of current research along with being a valuable resource for researchers in tertiary mathematics education including novices in the field Its practice orientation research makes it attractive to university mathematics teachers interested in getting access to current ideas and results including theory based and empirically evaluated teaching and learning innovations The content of the book is spread over 5 sections The secondary tertiary transition University students mathematical practices and mathematical inquiry Research on teaching and curriculum design University students mathematical inquiry and Mathematics for non specialists *Handbook of International Research in Mathematics Education* Lyn D. English, David Kirshner, 2015-07-30 This third edition of the Handbook of International Research in Mathematics Education provides a comprehensive overview of the most recent theoretical and practical developments in the field of mathematics education Authored by an array of internationally recognized scholars and edited by Lyn English and David Kirshner this collection brings together overviews and advances in mathematics education research spanning established and emerging topics diverse workplace and school environments and globally representative research priorities New perspectives are presented on a range of critical topics including embodied learning the theory practice divide new developments in the early years educating future mathematics education professors problem solving in a 21st century curriculum culture and mathematics learning complex systems critical analysis of design based research multimodal technologies and e textbooks Comprised of 12 revised and 17 new chapters this edition extends the Handbook's original themes for international research in mathematics education and remains in the process a definitive resource for the field *The Proceedings of the 12th International Congress on Mathematical Education* Sung Je Cho, 2015-02-10 This book comprises the Proceedings of the 12th International Congress on Mathematical Education ICME 12 which was held at COEX in Seoul Korea from July 8th to 15th 2012 ICME 12 brought together 3500 experts from 92 countries working to understand all of the intellectual and attitudinal challenges in the subject of mathematics education as a multidisciplinary research and practice This work aims to serve as a platform for deeper more sensitive and more

collaborative involvement of all major contributors towards educational improvement and in research on the nature of teaching and learning in mathematics education It introduces the major activities of ICME 12 which have successfully contributed to the sustainable development of mathematics education across the world The program provides food for thought and inspiration for practice for everyone with an interest in mathematics education and makes an essential reference for teacher educators curriculum developers and researchers in mathematics education The work includes the texts of the four plenary lectures and three plenary panels and reports of three survey groups five National presentations the abstracts of fifty one Regular lectures reports of thirty seven Topic Study Groups and seventeen Discussion Groups

Understanding Emotions in Mathematical Thinking and Learning Ulises Xolocotzin, 2017-05-12 Emotions play a critical role in mathematical cognition and learning Understanding Emotions in Mathematical Thinking and Learning offers a multidisciplinary approach to the role of emotions in numerical cognition mathematics education learning sciences and affective sciences It addresses ways in which emotions relate to cognitive processes involved in learning and doing mathematics including processing of numerical and physical magnitudes e g time and space performance in arithmetic and algebra problem solving and reasoning attitudes learning technologies and mathematics achievement Additionally it covers social and affective issues such as identity and attitudes toward mathematics Covers methodologies in studying emotion in mathematical knowledge Reflects the diverse and innovative nature of the methodological approaches and theoretical frameworks proposed by current investigations of emotions and mathematical cognition Includes perspectives from cognitive experimental psychology neuroscience and from sociocultural semiotic and discursive approaches Explores the role of anxiety in mathematical learning Synthesizes unifies the work of multiple sub disciplines in one place

Mathematics and Transition to School Bob Perry, Amy MacDonald, Ann Gervasoni, 2015-01-09 This edited book brings together for the first time an international collection of work focused on two important aspects of any young child s life learning mathematics and starting primary or elementary school The chapters take a variety of perspectives and integrate these two components in sometimes explicit and sometimes more subtle ways The key issues and themes explored in this book are the mathematical and other strengths that all participants in the transition to school bring to this period of a child s life the opportunities provided by transition to school for young children s mathematics learning the importance of partnerships among adults and among adults and children for effective school transitions and mathematics learning and teaching the critical impact of expectations on their mathematics learning as children start school the importance of providing children with meaningful challenging and relevant mathematical experiences throughout transition to school the entitlement of children and educators to experience assessment and instructional pedagogies that match the strengths of the learners and the teachers the importance for the aspirations of children families communities educators and educational organisations to be recognised as legitimate and key determinants of actions experiences and successes in both transition to school and mathematics learning

and the belief that young children are powerful mathematics learners who can demonstrate this power as they start school In each chapter authors reflect on their work in the area of mathematics and transition to school place that work within the overall context of research in these fields predict the trajectory of this work in the future and consider the implications of the work both theoretically and practically

Research in Mathematics Education in Australasia 2012-2015 Katie Makar, Shelley Dole, Jana Visnovska, Marilyn Goos, Anne Bennison, Kym Fry, 2016-06-02 With the ninth edition of the four yearly review of mathematics education research in Australasia the Mathematics Education Research Group of Australasia MERGA discusses the Australasian research in mathematics education in the four years from 2012 2015 This review aims to critically promote quality research and focus on the building of research capacity in Australasia

Advances in the Anthropological Theory of the Didactic Yves Chevallard, Berta Barquero, Marianna Bosch, Ignasi Florensa, Josep Gascón, Pedro Nicolás, Noemí Ruiz-Munzón, 2022-01-22 The book focuses on the latest developments of the Anthropological Theory of the Didactic ATD and its links with other approaches in mathematics education Leading researchers in the ATD and especially its creator Yves Chevallard present recent research results theoretical advances and new methodologies in this approach concerning critical educational problems at all levels The book is addressed to researchers in mathematics education and all related fields to teacher educators and teachers in primary secondary and tertiary education interested in curriculum issues and research in didactics The book includes four sections that correspond to four axes of current research in the framework of the ATD The first one studies the relations between the ATD and other research frameworks The second section focuses on the crucial role of didactics in teacher education and the experiences carried out at different instructional levels The third section addresses the curriculum problem in the historical transition from the classical paradigm of visiting works to the emerging didactic paradigm of questioning the world The last section is about research in didactics at the university level with investigations about the analysis of didactic transposition processes and the design and implementation of various instructional formats

Mathematics Teachers in Transition Elizabeth Fennema, Barbara Scott Nelson, 2013-04-03 This book addresses the need of professional development leaders and policymakers for scholarly knowledge about influencing teachers to modify mathematical instruction to bring it more in alignment with the recommendations of the current reform movement initiated by the National Council of Teachers of Mathematics The book presents theoretical perspectives for studying analyzing and understanding teacher change descriptions of contextual variables to be considered as one studies and attempts to understand teacher change and descriptions of professional development programs that resulted in teacher change One chapter builds a rationale for looking to developmental psychology for guidance in constructing models of reconstructing new forms of mathematical instruction Another highlights the relevance to mathematics teacher development of research based knowledge about how children construct mathematical ideas Other chapters explore the relationships between the various contexts of schooling and instructional change Included also are chapters that describe and analyze

major reform efforts designed to assist teachers in modifying their instructional practices Cognitively Guided Instruction Math Cubed Project Impact Mathematics in Context and the Case Based Project Finally the current state of knowledge about encouraging teachers to modify their instruction is discussed the implications of major research and implementation findings are suggested and some of the major questions that need to be addressed are identified such as what we have learned about teacher change

Handbook of Research on K-12 Blended and Virtual Learning Through the i²Flex Classroom

Model Avgerinou, Maria D.,Pelonis, Peggy,2021-03-05 Teaching models that focus on blended and virtual learning have become important during the past year and have become integral for the continuance of learning The i Flex classroom model a variation of blended learning allows non interactive teaching activities to take place without teachers direct involvement freeing up time for more meaningful teacher student and student student interactions There is evidence that i Flex leads to increased student engagement and motivation as well as better exploitation of teachers and classroom time leading to the development of higher order cognitive skills as well as study skills for students future needs related to citizenship college and careers The Handbook of Research on K 12 Blended and Virtual Learning Through the i Flex Classroom Model focuses not only on how to design deliver and evaluate courses but also on how to assess teacher performance in a blended i2Flex way at the K12 level The book will discuss the implementation of the i Flex isquareFlex a non traditional learning methodology which integrates internet based delivery of content and instruction with faculty guided student independent learning in combination with face to face classroom instruction aiming at developing higher order cognitive skills within a flexible learning design framework While highlighting new methods for improving the classroom and learning experience in addition to preparing students for higher education and careers this publication is an essential reference source for pre service and in service teachers researchers administrators educational technology developers and students interested in how the i2Flex model was implemented in classrooms and the effects of this learning model

Resources in Education ,2001 *Forging Connections in Early Mathematics Teaching and Learning* Virginia Kinnear,Mun Yee Lai,Tracey Muir,2017-12-12 This edited book promotes thinking dialogue research and theorisation on multiple ways of making connections in mathematics teaching and learning in early childhood education The book addresses some key challenges in research policy and practice in early childhood mathematics education It examines diverse ways for learning experiences to connect young children to mathematics and the importance of forging connections between mathematics and young children s lives as key elements in their engagement with mathematics Each chapter provides research or theoretical provocations and pedagogical implications for connecting children s lived experiences and ways of learning in mathematics teaching The chapters are drawn from a range of international authors who raise important ideas within the overall context of current research and consider the theoretical and practical implications of their research As such the book advances current thinking on mathematics teaching and learning for children in the early years from birth to eight years with an emphasis on children

aged birth to 5 years It considers the purpose and value in connecting mathematics teaching and learning to children s lives and provides provocations for both educators and researchers on the many under researched and under represented aspects of early years mathematics teaching and learning Critical Issues in Mathematics Education Bharath Sriraman,Paul Ernest,Brian Greer,2009-06-01 The word critical in the title of this collection has three meanings all of which are relevant One meaning as applied to a situation or problem is at a point of crisis A second meaning is expressing adverse or disapproving comments or judgments A third is related to the verb to critique meaning to analyze the merits and faults of The authors contributing to this book pose challenging questions from multiple perspectives about the roles of mathematics in society and the implications for education Traditional reasons for teaching mathematics include preparing a new generation of mathematics researchers and a cadre of technically competent users of mathematics training students to think logically and because mathematics is as much part of cultural heritage as literature or music These reasons remain valid though open to critique but a deeper analysis is required that recognizes the roles of mathematics in framing many aspects of contemporary society that will connect mathematics education to the lived experiences of students their communities and society in general and that acknowledges the global ethical responsibilities of mathematicians and mathematics educators The book is organized in four sections 1 Mathematics education For what and why 2 Globalization and cultural diversity 3 Mathematics education and society and 4 Social justice in and through mathematics education The chapters address fundamental issues such as the relevance of school mathematics in people s lives creating a sense of agency for the field of mathematics education and redefining the relationship between mathematics as discipline mathematics as school subject and mathematics as part of people s lives Social Interactions in Multicultural Settings ,2019-02-11 Multicultural issues are part of the agenda for researchers academics and politicians The new technologies have brought multiculturalism into our professional and personal lives opening new possibilities for social interactions among people from different countries cultures ages and gender Being able to deal with diversity including other cultures is a must in the 21st century This book is an opportunity to read narratives about social interactions in multicultural settings and to discuss the role they play in the construction of school and social achievement It is not only a book on multiculturalism It is also a multicultural book including an introduction and 13 chapters from authors representing 11 countries and many more cultures It is a journey that brings you through different settings situations and scenarios describing them vividly so that the reader can have an authentic taste of them This is a book that researchers academics teachers policy makers and politicians should read It illuminates many of the problems related to multiculturalism But it also reports on educational experiences and forms of interacting that help solving these problems It also illustrates the barriers that still exist and that keep many persons apart from equity Moreover due to its narrative mood the descriptions of what happens in different educational systems and episodes that could happen to us all including our kids this is a book for parents youngsters and all the ones interested in knowing other cultures After all

education is an issue that is related to each human being We are all cultural individuals who need to interact with each other Thus this is a book to learn how social interactions in such a demanding multicultural world can help us live in peace and understand each other Transitions to School - International Research, Policy and Practice Bob Perry,Sue Dockett,Anne Petriwskyj,2013-11-04 This book provides an important compilation and synthesis of current work in transition to school research The book focuses strongly on the theoretical underpinnings of research in transition to school It outlines key theoretical positions and connects those to the implications for policy and practice thereby challenging readers to re conceptualize their understandings expectations and perceptions of transition to school The exploration of this range of theoretical perspectives and the application of these to a wide range of research and research contexts makes this book an important and innovative contribution to the scholarship of transition to school research A substantial part of the book is devoted to detailed examples of transition to school practice These chapters provide innovative examples of evidence based practice and contribute in turn to practice based evidence The book is also devoted to considering policy issues and implications related to the transition to school It records a genuine collaborative effort to bring together a range of perspectives into a Transition to School Position Statement that will inform ongoing research practice and policy The collaborative research policy and practice based development of this position statement represents a world first Register of Educational Research in the United Kingdom, 1992-1995 National Foundation For Educational Research,1995 This latest volume of the Register of Educational Research in the United Kingdom lists all the major research projects being undertaken in Britain during the latter months of 1992 the whole of 1993 and 1994 and the early months of 1995 Each entry provides names and addresses of the researchers a detailed abstract the source and amount of the grant where applicable the length of the project and details of published material about the research

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