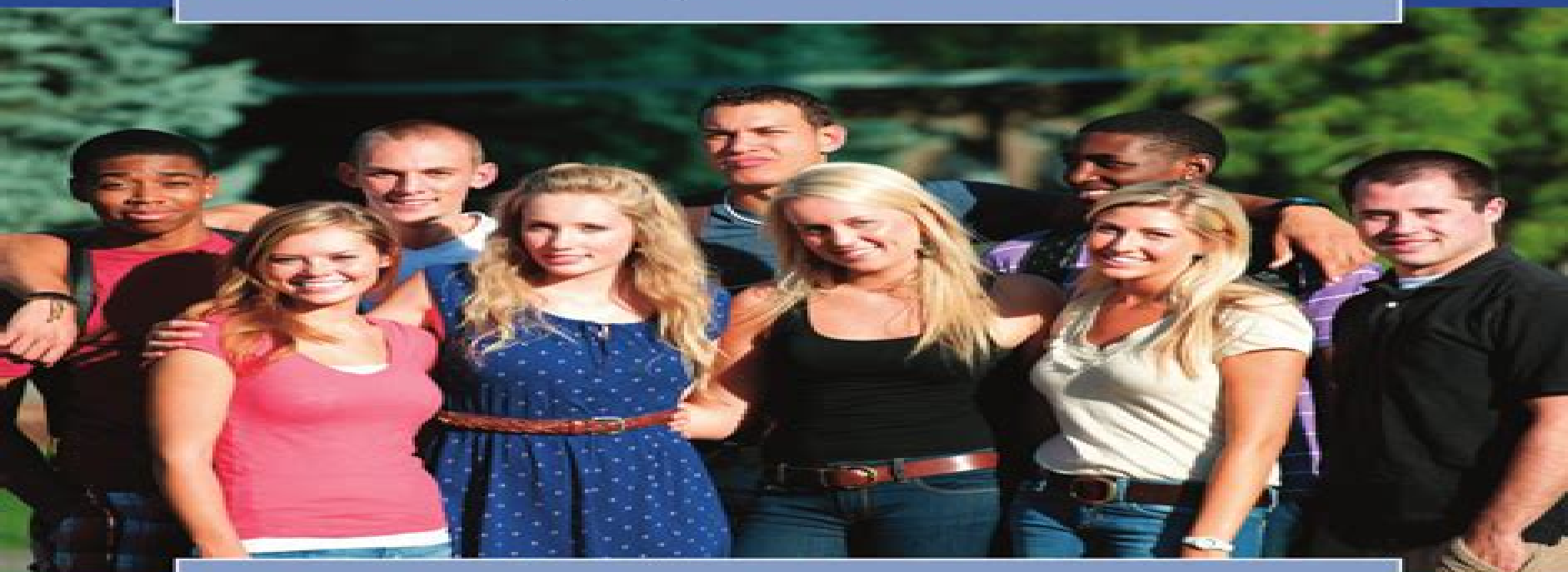


The Second Handbook of Research on the Psychology of Mathematics Education

The Journey Continues

Ángel Gutiérrez, Gilah C. Leder and
Paolo Boero (Eds.)



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Handbook Of Research On The Psychology Of Mathematics Education

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Handbook Of Research On The Psychology Of Mathematics Education:

Handbook of Research on the Psychology of Mathematics Education, 2006-01-01 This volume is a compilation of the research produced by the International Group for the Psychology of Mathematics Education PME since its creation 30 years ago It has been written to become an essential reference for Mathematics Education research in the coming years The chapters offer summaries and synthesis of the research produced by the PME Group presented to let the readers grasp the evolution of paradigms questions methodologies and most relevant research results during the last 30 years They also include extensive lists of references Beyond this the chapters raise the main current research questions and suggest directions for future research The handbook is divided into five sections devoted to the main research domains of interest to the PME Group The first three sections summarize cognitively oriented research on learning and teaching specific content areas transversal areas and based on technology rich environments The fourth section is devoted to the research on social affective cultural and cognitive aspects of Mathematics Education Finally the fifth section includes two chapters summarizing the PME research on teacher training and professional life of mathematics teachers The volume is the result of the effort of 30 authors and 26 reviewers Most of them are recognized leading PME researchers with great expertise on the topic of their chapter This handbook shall be of interest to both experienced researchers and doctoral students needing detailed synthesis of the advances and future directions of research in Mathematics Education and also to mathematics teacher trainers who need to have a comprehensive reference as background for their courses on Mathematics Education

The Second Handbook of Research on the Psychology of Mathematics Education Ángel Gutiérrez, Gilah C. Leder, Paolo Boero, 2016-07-23 Since its establishment in 1976 PME The International Group for the Psychology of Mathematics Education is serving as a much sought after venue for scientific debate among those at the cutting edge of the field as well as an engine for the development of research in mathematics education A wide range of research activities conducted over the last ten years by PME members and their colleagues are documented and critically reviewed in this handbook released to celebrate the Group's 40 year anniversary milestone The book is divided into four main sections Cognitive aspects of learning and teaching content areas Cognitive aspects of learning and teaching transverse areas Social aspects of learning and teaching mathematics and Professional aspects of teaching mathematics The selection for each chapter of a team of at least two authors mostly located in different parts of the world ensured effective coverage of each field High quality was further enhanced by the scrupulous review of early chapter drafts by two leaders in the relevant field The resulting volume with its compilation of the most relevant aspects of research in the field and its emphasis on trends and future developments will be a rich and welcome resource for both mature and emerging researchers in mathematics education

Handbook of Research on Mathematics Teaching and Learning Douglas Grouws, 2006-11-01 Sponsored by the National Council of Teachers of Mathematics and written by leading experts in the field of mathematics education the Handbook is specifically

designed to make important vital scholarship accessible to mathematics education professors graduate students educational researchers staff development directors curriculum supervisors and teachers The Handbook provides a framework for understanding the evolution of the mathematics education research field against the backdrop of well established conceptual historical theoretical and methodological perspectives It is an indispensable working tool for everyone interested in pursuing research in mathematics education as the references for each of the Handbook s twenty nine chapters are complete resources for both current and past work in that particular area

Handbook of International Research in Mathematics Education Lyn D. English, David Kirshner, 2010-04-02 The second edition continues the mission of bringing together important new mathematics education research that makes a difference in both theory and practice It updates and extends the Handbook s original key themes and issues for international research in mathematics education for the 21st century namely priorities in international mathematics education research lifelong democratic access to powerful mathematical ideas advances in research methodologies influences of advanced technologies Each of these themes is examined in terms of learners teachers and learning contexts with theory development being an important component of all these aspects This edition also examines other catalysts that have gained increased import in recent years including a stronger focus on the teacher and teacher practice a renewed interest in theory development an increased focus on the mathematics needed in work place settings and a proliferation of research designs and methodologies that have provided unprecedented opportunities for investigating and ultimately improving mathematical teaching and learning This edition includes ten totally new chapters all other chapters are thoroughly revised and updated

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 co ordinated 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

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 für 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

Visualizing Mathematics Kelly S. Mix, Michael T. Battista, 2018-12-07 This unique volume surveys recent research on spatial visualization in mathematics in the fields of cognitive psychology and mathematics education The general topic of spatial skill and mathematics has a long research tradition but has been gaining attention in recent years although much of this research happens in disconnected subfields This volume aims to promote interaction between researchers not only to provide a more comprehensive view of spatial visualization and mathematics but also to stimulate innovative new directions in research based on a more coordinated effort It features ten chapters authored by leading researchers in cognitive psychology and mathematics education as well as includes dynamic commentaries by mathematics education researchers on cognitive psychology chapters and by cognitive psychologists on mathematics education chapters Among the topics included From intuitive spatial measurement to understanding of units Spatial reasoning a critical problem solving tool in children's mathematics strategy tool kit What processes underlie the relation between spatial skill and mathematics Learning with and from drawing in early years geometry Communication of visual information and complexity of reasoning by mathematically talented students *Visualizing Mathematics* makes substantial progress in understanding the role of spatial reasoning in mathematical thought and in connecting various subfields of research It promises to make an impact among psychologists education scholars and mathematics educators in the convergence of psychology and education **International**

Encyclopedia of Education, 2009-04-17 The field of education has experienced extraordinary technological societal and institutional change in recent years making it one of the most fascinating yet complex fields of study in social science Unequalled in its combination of authoritative scholarship and comprehensive coverage *International Encyclopedia of Education* Third Edition succeeds two highly successful previous editions 1985 1994 in aiming to encapsulate research in this vibrant field for the twenty first century reader Under development for five years this work encompasses over 1 000 articles across 24 individual areas of coverage and is expected to become the dominant resource in the field Education is a multidisciplinary and international field drawing on a wide range of social sciences and humanities disciplines and this new edition comprehensively matches this diversity The diverse background and multidisciplinary subject coverage of the

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Research Trends in Mathematics Teacher Education Jane-Jane Lo, Keith R. Leatham, Laura R. Van Zoest, 2014-05-28 Research on the preparation and continued development of mathematics teachers is becoming an increasingly important subset of mathematics education research Such research explores the attributes knowledge skills and beliefs of mathematics teachers as well as methods for assessing and developing these critical aspects of teachers and influences on teaching Research Trends in Mathematics Teacher Education focuses on three major themes in current mathematics teacher education research mathematical knowledge for teaching teacher beliefs and identities and tools and techniques to support teacher learning Through careful reports of individual research studies and cross study syntheses of the state of research in these areas the book provides insights into teachers learning processes and how these processes can be harnessed to develop effective teachers Chapters investigate bedrock skills needed for working with primary and secondary learners writing relevant problems planning lessons being attentive to student learning and illustrate how knowledge can be accessed assessed and nurtured over the course of a teaching career Commentaries provide context for current research while identifying areas deserving future study Included among the topics Teachers curricular knowledge Teachers personal and classroom mathematics Teachers learning journeys toward reasoning and sense making Teachers transitions in noticing Teachers uses of a learning trajectory as a tool for mathematics lesson planning A unique and timely set of perspectives on the professional development of mathematics teachers at all stages of their careers Research Trends in Mathematics Teacher Education brings clarity and practical advice to researchers as well as practitioners in this increasingly critical arena

Teachers of Mathematics Working and Learning in Collaborative Groups Hilda Borko, Despina Potari, 2024-06-03 This open access book is the product of an international study which offers a state of the art summary of mathematics teacher collaboration with respect to theory research practice and policy The authors leading researchers and teachers on mathematics teacher collaboration represent a wide range of countries and cultures Chapters explore the various forms of teacher collaboration the diversity of settings and groupings in which mathematics teacher collaboration occurs the tools and resources that support mathematics teacher collaboration and are the product of collaboration and the breadth of outcomes of such collaboration Teachers experiences and learning in

collaborative settings are represented through their own voices as well as the voices of researchers. Forms and outcomes of collaboration are considered through a variety of theoretical perspectives and methodological approaches. The authors reflect on the policy implications of this work and suggest new directions of research that take into account contextual, cultural, national and political dimensions that impact teachers' work and learning through collaboration. The book is a valuable resource for researchers, practitioners and policy makers who are interested in the power of teacher collaboration and its history and potential for promoting educational innovations and equitable experiences for all teachers and learners.

Critical Issues in Mathematics Education Philip Clarkson, Norma C. Presmeg, 2008-09-22. Critical Issues in Mathematics Education presents the significant contributions of Professor Alan Bishop within the mathematics education research community. Six critical issues, each of which have had paramount importance in the development of mathematics education research, are reviewed and include a discussion of current developments in each area: Teacher decision making, spatial visualizing, geometry, teachers and research, cultural, social aspects of mathematics education, sociopolitical issues and values. These serve as the basic issues discussed in this examination of mathematics education over the last fifty years, during which Professor Bishop has been active in the field. A comprehensive discussion of each of these topics is realized by offering the reader a classic research contribution of Professor Bishop's together with commentary and invited chapters from leading experts in the field of mathematics education. Critical Issues in Mathematics Education will make an invaluable contribution to the ongoing reflection of mathematics education researchers worldwide but also to policy makers and teacher educators who wish to understand some of the key issues with which mathematics education has been and still is concerned and the context within which Professor Bishop's key contributions to these research issues were made. *Proof and Proving in Mathematics Education* Gila Hanna, Michael de Villiers, 2012-06-14. THIS BOOK IS AVAILABLE AS OPEN ACCESS BOOK ON SPRINGERLINK. One of the most significant tasks facing mathematics educators is to understand the role of mathematical reasoning and proving in mathematics teaching so that its presence in instruction can be enhanced. This challenge has been given even greater importance by the assignment to proof of a more prominent place in the mathematics curriculum at all levels. Along with this renewed emphasis, there has been an upsurge in research on the teaching and learning of proof at all grade levels, leading to a re-examination of the role of proof in the curriculum and of its relation to other forms of explanation, illustration and justification. This book, resulting from the 19th ICMI Study, brings together a variety of viewpoints on issues such as: The potential role of reasoning and proof in deepening mathematical understanding in the classroom as it does in mathematical practice; The developmental nature of mathematical reasoning and proof in teaching and learning from the earliest grades; The development of suitable curriculum materials and teacher education programs to support the teaching of proof and proving; The book considers proof and proving as complex but foundational in mathematics. Through the systematic examination of recent research, this volume offers new ideas aimed at enhancing the place of proof and proving in our

classrooms Third International Handbook of Mathematics Education M.A. (Ken) Clements, Alan Bishop, Christine Keitel-Kreidt, Jeremy Kilpatrick, Frederick Koon-Shing Leung, 2012-11-15 The four sections in this Third International Handbook are concerned with a social political and cultural dimensions in mathematics education b mathematics education as a field of study c technology in the mathematics curriculum and d international perspectives on mathematics education These themes are taken up by 84 internationally recognized scholars based in 26 different nations Each of section is structured on the basis of past present and future aspects The first chapter in a section provides historical perspectives How did we get to where we are now the middle chapters in a section analyze present day key issues and themes Where are we now and what recent events have been especially significant and the final chapter in a section reflects on policy matters Where are we going and what should we do Readership Teachers mathematics educators ed policy makers mathematicians graduate students undergraduate students Large set of authoritative international authors **Learning Through Teaching Mathematics** Roza Leikin, Rina Zazkis, 2010-04-10 The idea of teachers Learning through Teaching LTT when presented to a na ve bystander appears as an oxymoron Are we not supposed to learn before we teach After all under the usual circumstances learning is the task for those who are being taught not of those who teach However this book is about the learning of teachers not the learning of students It is an ancient wisdom that the best way to truly learn something is to teach it to others Nevertheless once a teacher has taught a particular topic or concept and consequently truly learned it what is left for this teacher to learn As evident in this book the experience of teaching presents teachers with an exciting opportunity for learning throughout their entire career This means acquiring a better understanding of what is being taught and moreover learning a variety of new things What these new things may be and how they are learned is addressed in the collection of chapters in this volume LTT is acknowledged by multiple researchers and mathematics educators In the rst chapter Leikin and Zazkis review literature that recognizes this phenomenon and stress that only a small number of studies attend systematically to LTT p cesses The authors in this volume purposefully analyze the teaching of mathematics as a source for teachers own learning **The Nature and Development of Mathematics** John Adams, Patrick Barmby, Alex Mesoudi, 2017-04-21 From an infant s first grasp of quantity to Einstein s theory of relativity the human experience of number has intrigued researchers for centuries Numeracy and mathematics have played fundamental roles in the development of societies and civilisations and yet there is an essential mystery to these concepts evidenced by the fear many people still feel when confronted by apparently simple sums Including perspectives from anthropology education and psychology The Nature and Development of Mathematics addresses three core questions Is maths natural What is the impact of our culture and environment on mathematical thinking And how can we improve our mathematical ability Examining the cognitive processes that we use the origins of these skills and their cultural context and how learning and teaching can be supported in the classroom the book contextualises each issue within the wider field arguing that only by taking a cross disciplinary

perspective can we fully understand what it means to be numerate as well as how we become numerate in our modern world This is a unique collection including contributions from a range of renowned international researchers It will be of interest to students and researchers across cognitive psychology cultural anthropology and educational research

Mathematical Knowledge in Teaching Tim Rowland, Kenneth Ruthven, 2011-01-06 The quality of primary and secondary school mathematics teaching is generally agreed to depend crucially on the subject related knowledge of the teacher However there is increasing recognition that effective teaching calls for distinctive forms of subject related knowledge and thinking Thus established ways of conceptualizing developing and assessing mathematical knowledge for teaching may be less than adequate These are important issues for policy and practice because of longstanding difficulties in recruiting teachers who are confident and conventionally well qualified in mathematics and because of rising concern that teaching of the subject has not adapted sufficiently The issues to be examined in Mathematical Knowledge in Teaching are of considerable significance in addressing global aspirations to raise standards of teaching and learning in mathematics by developing more effective approaches to characterizing assessing and developing mathematical knowledge for teaching

Mathematics Education and Technology-Rethinking the Terrain Celia Hoyles, Jean-Baptiste Lagrange, 2009-10-09 Mathematics Education and Technology Rethinking the Terrain revisits the important 1985 ICMI Study on the influence of computers and informatics on mathematics and its teaching The focus of this book resulting from the seventeenth Study led by ICMI is the use of digital technologies in mathematics teaching and learning in countries across the world Specifically it focuses on cultural diversity and how this diversity impinges on the use of digital technologies in mathematics teaching and learning Within this focus themes such as mathematics and mathematical practices learning and assessing mathematics with and through digital technologies teachers and teaching design of learning environments and curricula implementation of curricula and classroom practice access equity and socio cultural issues and connectivity and virtual networks for learning serve to organize the study and bring it coherence Providing a state of the art view of the domain with regards to research innovating practices and technological development Mathematics Education and Technology Rethinking the Terrain is of interest to researchers and all those interested in the role that digital technology plays in mathematics education

Global Perspectives and Practices for Reform-Based Mathematics Teaching Kartal, Ozgul, Popovic, Gorjana, Morrissey, Susie, 2022-04-22 Reform based mathematics has become a popular topic in the education field as this teaching emphasizes classroom discourse and instructional goals related to student engagement and an understanding of mathematical reasoning concepts and procedures using instructional practices that build on students informal knowledge of mathematics It also connects mathematics with other disciplines and the real world and provides opportunities for students to contribute and invent their own methods during problem solving Further study on the best practices benefits and challenges of implementing this teaching into education is required Global Perspectives and Practices for Reform Based Mathematics Teaching explores international

perspectives on diverse reform based practices in teaching and learning mathematics describes challenges and issues for teachers and teacher educators promotes reflection and academic discussion at various levels and in various educational systems and raises questions for the field of mathematics education Covering a range of topics such as teacher preparation programs and integrated learning spaces this reference work is ideal for academicians practitioners researchers instructors educators and students

Research on e-Learning and ICT in Education Athanassios Jimoyiannis, 2011-09-28 This book aims to serve as a multidisciplinary forum covering technical pedagogical organizational instructional as well as policy aspects of ICT in Education and e Learning Special emphasis is given to applied research relevant to educational practice guided by the educational realities in schools colleges universities and informal learning organizations In a more generic scope the volume aims to encompass current trends and issues determining ICT integration in practice including learning and teaching curriculum and instructional design learning media and environments teacher education and professional development assessment and evaluation etc

Fostering Scientific Habits of Mind, 2009-01-01 The history of human development records the courageous efforts made by the generation of teacher educators to train the school leaders who are responsible to implement educational policies They have endured the burden and challenges of the times and refine the pedagogies and education systems with many innovative approaches As the world faces increasing uncertainties and shift to knowledge economy education plays a larger role in creating productive persons Designing and managing learning school organizations that can sustain a competitive advantage in this fast changing environment demands transformative leaders who would envision building intellectual capital for the future Many books on teacher education educational management and leadership exist in the past But most books do not keep up with the fast changing educational scene and only a few include future scenarios This book presents anticipated trends and demands of the new knowledge economy achieving goals with the use of various tools generative and collaborative efforts increasing leadership capability in dynamic and complex contexts enculturation of cutting edge knowledge for educational advancement and creation of teams that focus learning organizations The book brings together prominent and leading teacher educators and researchers from around the world to present their scholarship theories and practice case studies state of the art approaches and future oriented predictions This book embodies collective knowledge inquiry and represents professional conversations The chapters provides information on recent trends and development in teacher education the important role of educational management and leadership in educational transformations promising practices for desired outcomes The book is a critical and specialized resource that describes how transformative leadership can play an important role in achieving excellence in education The topics are covered in the book are educational leadership and effective teaching research in transformational leadership and professional development and social capital building in schools

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