

Current issues on Mathematics Education around Europe

Introduction

In all the meetings of the EMS- Educational Committee, updated reports are presented by the participants on the current situation related to mathematics education in their countries. Although these reports express the members' personal opinions and do not necessarily reflect national institutional views, they address important issues that provide an initial comparative picture of mathematics education in Europe. The countries that are represented in the reports are Austria, Belgium, Czech Republic, Denmark, England, Finland, France, Germany, Greece, Israel, Italy, Portugal, Russia and Spain. In this short paper, the discussion will be around four main aspects that have been addressed in most reports concerning: the overall educational and social matters that have an effect on mathematics education in different educational levels; the curriculum, and the teacher education and professional development. Finally the role of local associations, research groups and national projects is also a factor that seems to influence mathematics education at the levels of both research and practice.

Social and Educational Issues

Financial crisis around Europe, especially in some countries (e.g. Greece, Italy, Portugal, Spain), has resulted in salary cuts in the public sector and a number of educational changes (e.g. merging of schools and universities, reduction of funding, increase of the number of students in the classroom) each of which have had a negative impact in many teachers' motivation. In many countries, for example in France, Denmark, England, Israel and Germany, there is shortage of school mathematics teachers for all or for some levels of educations and in some cases where mathematics teaching is undertaken by out-of-field-teachers, there is the problem of rather low mathematical background even if their engagement is not problematic. In France, another reason that seems to create unwillingness for graduates to choose the teaching profession is the sheer number of challenges: the recent reform requires that they must simultaneously get a Master degree, succeed in the national competition for teacher recruitment, and teach full time in schools, with no professional preparation.

Current Issues On Mathematics Education Around Europe

**Seppo Pohjolainen, Tuomas
Myllykoski, Christian Mercat, Sergey
Sosnovsky**

Current Issues On Mathematics Education Around Europe:

Eastern European Mathematics Education in the Decades of Change Alexander Karp, 2020-05-04 This contributed volume is devoted to the recent history and evolution of mathematics education in Eastern Europe exploring how it was influenced by social and political changes in this part of the world Despite the broad recognition of the importance of these changes little scholarship exists that examines the ways in which they were followed by changes in the teaching of mathematics in the post socialist countries Indeed the analyzed processes are complex and vary across the states Accordingly this book touches on many factors including differences in cultures and traditions that find expression in the teaching of mathematics Specifically this volume seeks to explore what changes there were in education in general and in the position of mathematics in school education in these years and how these changes may be explained and documented what changes there were in the content of mathematics education and its assessment and how were they motivated and adopted what new textbooks appeared and what new methodological ideas were offered in them how and why mathematics teacher education and or professional development changed what was the role if any of foreign influences on mathematics education etc The book will be of interest to both researchers in mathematics education and practitioners teachers as well as a broader audience of historians and educators exploring the political aspects of education

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

Modern Mathematics Education for Engineering Curricula in Europe Seppo Pohjolainen, Tuomas Myllykoski, Christian Mercat, Sergey Sosnovsky, 2018-07-16 This open access book provides a

comprehensive overview of the core subjects comprising mathematical curricula for engineering studies in five European countries and identifies differences between two strong traditions of teaching mathematics to engineers. The collective work of experts from a dozen universities critically examines various aspects of higher mathematical education. The two EU Tempus IV projects MetaMath and MathGeAr investigate the current methodologies of mathematics education for technical and engineering disciplines. The projects aim to improve the existing mathematics curricula in Russian, Georgian, and Armenian universities by introducing modern technology-enhanced learning (TEL) methods and tools as well as by shifting the focus of engineering mathematics education from a purely theoretical tradition to a more applied paradigm. MetaMath and MathGeAr have brought together mathematics educators, TEL specialists, and experts in education quality assurance from 21 organizations across six countries. The results of a comprehensive comparative analysis of the entire spectrum of mathematics courses in the EU, Russia, Georgia, and Armenia have been conducted, have allowed the consortium to pinpoint and introduce several modifications to their curricula while preserving the generally strong state of university mathematics education in these countries. The book presents the methodology, procedure, and results of this analysis. This book is a valuable resource for teachers, especially those teaching mathematics and curriculum planners for engineers, as well as for a general audience interested in scientific and technical higher education.

Globalized Curriculum Methods for Modern Mathematics Education Tella, Adedeji, 2018-07-27. The field of education is in constant flux as new theories and practices emerge to engage students and improve the learning experience. Globalization has created new challenges for mathematics educators as they are compelled to respond to the shifting patterns and practices of everyday life and stay abreast of the latest research in education, curriculum development, and technologies. *Globalized Curriculum Methods for Modern Mathematics Education* is a comprehensive and timely publication that contains the latest research in mathematics education and modern globalized curriculum development and technologies. The book examines subjects such as teaching competencies, digital games for teaching and learning mathematics, and the challenges and prospects of globalized science curriculum. This is an ideal resource for educators, academicians, teachers, policy makers, researchers, and graduate-level students seeking to further their research in mathematics education.

Modern Educational Methods and Strategies in Teaching Mathematics Yousef Methkal, Abd Algani, Jamal Eshan, 2022-11-18. This book looks into the subject of classroom mathematics education. It shows that students' understanding and enthusiasm in mathematics grow as they progress through elementary school, as do their thinking skills. It defines the five building blocks of learning mathematics for primary school children, as well as the motivational and affective determinants in elementary school mathematics. The book also argues that mathematical aptitude is critical for a society's economic success, as other professions such as engineering, sciences, social sciences, and even the arts require a strong grasp of the field. Thus, in secondary mathematics education, the formation of identity, as well as how students prefer to learn, is stated. The text includes an overview of curriculum design and the main components of curriculum.

development It shows that mathematics education and learning may be viewed as a progressive system and emphasizes the importance of student involvement in learning *Proceedings of the 18th European Conference on Games Based Learning* Kristine Kilsa,Rajiv Vaid Basaiawmoit,2024 *Current And Advanced Researches In Science And Math Education I* Tayfun Tutak,2024-05-03 **New Pedagogical Approaches in Game Enhanced Learning: Curriculum Integration** de Freitas, Sara,Ott, Michela,Popescu, Maria Magdalena,Stanescu, Ioana,2013-04-30 This book addresses the major challenges associated with adopting digital games into a standard curriculum providing fresh perspectives from current practitioners in the education field Provided by publisher **Handbook of International Research in Mathematics Education** Lyn D. English,David Kirshner,2010-04-02 This book brings together mathematics education research that makes a difference in both theory and practice research that anticipates problems and needed knowledge before they become impediments to progress **Topics and Trends in Current Science Education** Catherine Bruguière,Andrée Tiberghien,Pierre Clément,2013-11-19 This book features 35 of best papers from the 9th European Science Education Research Association Conference ESERA 2011 held in Lyon France September 5th 9th 2011 The ESERA international conference featured some 1 200 participants from Africa Asia Australia Europe as well as North and South America offering insight into the field at the end of the first decade of the 21st century This book presents studies that represent the current orientations of research in science education and includes studies in different educational traditions from around the world It is organized into six parts around the three poles content students teachers and their interrelations of science education after a general presentation of the volume first part the second part concerns SSI Socio Scientific Issues dealing with new types of content the third the teachers the fourth the students the fifth the relationships between teaching and learning and the sixth the teaching resources and the curricula **Second International Handbook of Mathematics Education** Alan Bishop,M.A. (Ken) Clements,Christine Keitel-Kreidt,Jeremy Kilpatrick,Frederick Koon-Shing Leung,2012-02-02 ALAN 1 BISHOP The first International Handbook on Mathematics Education was published by Kluwer Academic Publishers in 1996 However most of the writing for that handbook was done in 1995 and generally reflected the main research and development foci prior to 1994 There were four sections 36 chapters and some 150 people contributed to the final volume either as author reviewer editor or critical friend The task was a monumental one attempting to cover the major research and practice developments in the international field of mathematics education as it appeared to the contributors in 1995 Inevitably there were certain omissions some developments were only starting to emerge and some literatures were only sketchy and speculative However that Handbook has had to be reprinted three times so it clearly fulfilled a need and I personally hope that it lived up to what I wrote in its Introduction The Handbook thus attempts not merely to present a description of the international state of the field but also to offer synthetic and reflective overviews on the different directions being taken by the field on the gaps existing in our present knowledge on the current problems being faced and on the future possibilities for development Bishop

et al 1996 Since that time there has been even more activity in our field and now seems a good time to take stock again to reflect on what has happened since 1995 and to create a second Handbook with the same overall goals *European Congress of Mathematics* Antal Balog, Domokos Szasz, András Recski, Gyula O.H. Katona, 2012-12-06 This is the second volume of the proceedings of the second European Congress of Mathematics Volume I presents the speeches delivered at the Congress the list of lectures and short summaries of the achievements of the prize winners Together with volume II it contains a collection of contributions by the invited lecturers Finally volume II also presents reports on some of the Round Table discussions This two volume set thus gives an overview of the state of the art in many fields of mathematics and is therefore of interest to every professional mathematician Contributors Vol I N Alon L Ambrosio K Astala R Benedetti Ch Bessenrodt F Bethuel P Björstad E Bolthausen J Bricmont A Kupiainen D Burago L Caporaso U Dierkes I Dynnikov L H Eliasson W T Gowers H Hedenmalm A Huber J Kaczorowski J Kollár D O Kramkov A N Shiryaev C Lescop R M Ruzhansky Vol II J Matousek D McDuff A S Merkurjev V Milman Sturmfels T Nowicki E Olivieri E Scoppola V P Platonov J P Schell L Polterovich L Pyber N Simányi J P Solov'ev A Stipsicz G Tardos J P Tignol A P Veselov E Zuazua Challenges in Basic Mathematics Education International Group of Experts on Science and Mathematics Education Policies, Paris, 2009, UNESCO, 2012-12-31

Youngsters Solving Mathematical Problems with Technology Susana Carreira, Keith Jones, Nélia Amado, Hélia Jacinto, Sandra Nobre, 2016-02-19 This book contributes to both mathematical problem solving and the communication of mathematics by students and the role of personal and home technologies in learning beyond school It does this by reporting on major results and implications of the Problem Web project that investigated youngsters mathematical problem solving and in particular their use of digital technologies in tackling and communicating the results of their problem solving in environments beyond school The book has two focuses Mathematical problem solving skills and strategies forms of representing and expressing mathematical thinking technological based solutions and students and teachers perspectives on mathematics learning especially school compared to beyond school mathematics European Traditions in Didactics of Mathematics Werner Blum, Michèle Artigue, Maria Alessandra Mariotti, Rudolf Sträßer, Marja Van den Heuvel-Panhuizen, 2019-02-18 This open access book discusses several didactic traditions in mathematics education in countries across Europe including France the Netherlands Italy Germany the Czech and Slovakian Republics and the Scandinavian states It shows that while they all share common features both in the practice of learning and teaching at school and in research and development they each have special features due to specific historical and cultural developments The book also presents interesting historical facts about these didactic traditions the theories and examples developed in these countries *Integrating Touch-Enabled and Mobile Devices into Contemporary Mathematics Education* Meletiou-Mavrotheris, Maria, Mavrou, Katerina, Paparistodemou, Efi, 2015-07-13 Despite increased interest in mobile devices as learning tools the amount of available primary research studies on their integration into mathematics teaching and

learning is still relatively small due to the novelty of these technologies Integrating Touch Enabled and Mobile Devices into Contemporary Mathematics Education presents the best practices in mathematics education research and teaching practice by providing an account of current and future trends and issues in mobile mathematics learning and associated technologies and educational methodologies This edited volume approaches a broad audience including researchers and practitioners interested in the exploitation of mobile technologies in mathematics teaching and learning as well as mathematics teachers at all levels This premier reference source compiles the best practices and recommended processes for effectively utilizing the vast capabilities of mobile technologies in the mathematics classroom through a collection of chapters covering topics including but not limited to touch enabled virtual mapping perceptual learning technologies mobile teaching statistics apps for mobile devices smartphones for the visually impaired pedagogical and instructional design and touch screen interfaces in algebraic instruction

Handbook on the History of Mathematics Education Alexander Karp, Gert Schubring, 2014-01-25 This is the first comprehensive International Handbook on the History of Mathematics Education covering a wide spectrum of epochs and civilizations countries and cultures Until now much of the research into the rich and varied history of mathematics education has remained inaccessible to the vast majority of scholars not least because it has been written in the language and for readers of an individual country And yet a historical overview however brief has become an indispensable element of nearly every dissertation and scholarly article This handbook provides for the first time a comprehensive and systematic aid for researchers around the world in finding the information they need about historical developments in mathematics education not only in their own countries but globally as well Although written primarily for mathematics educators this handbook will also be of interest to researchers of the history of education in general as well as specialists in cultural and even social history

Understanding and Enriching Problem Solving in Primary Mathematics Patrick Barmby, David Bolden, Lynn Thompson, 2025-02-28 This up to date book is essential reading for all those teaching or training to teach primary mathematics Problem solving is a key aspect of teaching and learning mathematics but also an area where teachers and pupils often struggle Set within the context of the new primary curriculum and drawing on research and practice the book identifies the key knowledge and skills required in teaching and learning problem solving in mathematics and examines how these and can be applied in the classroom It explores the issues in depth while remaining straightforward and relevant emphasises the enrichment of maths through problem solving and provides opportunities for teachers to reflect on and further develop their classroom practice

[Proceedings of the 13th International Congress on Mathematical Education](#) Gabriele Kaiser, 2017-10-31 This book is open access under a CC BY 4.0 license The book presents the Proceedings of the 13th International Congress on Mathematical Education ICME 13 and is based on the presentations given at the 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 brought together about 3 500 mathematics educators from 105 countries additionally 250 teachers from German speaking countries met for specific activities Directly before the congress activities were offered for 450 Early Career Researchers The proceedings give a comprehensive overview on the current state of the art of the discussions on mathematics education and display the breadth and deepness of current research on mathematical teaching and learning processes The book introduces the major activities of ICME 13 namely articles from the four plenary lecturers and two plenary panels articles from the five ICMI awardees reports from six national presentations three reports from the thematic afternoon devoted to specific features of ICME 13 Furthermore the proceedings contain descriptions of the 54 Topic Study Groups which formed the heart of the congress and reports from 29 Discussion Groups and 31 Workshops The additional important activities of ICME 13 namely papers from the invited lecturers will be presented in the second volume of the proceedings

Culturally Responsive Mathematics Education
Brian Greer, Swapna Mukhopadhyay, Arthur B. Powell, Sharon Nelson-Barber, 2009-05-20 This critical new collection presents mathematics education from a culturally responsive perspective and offers a broad perspective of mathematics as a significant liberating intellectual force in our society

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