



COMPUTER AIDED ASSESSMENT AND LEARNING IN MATHEMATICS

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Department of Mathematics

KEYWORDS:

Funding allocated: £

The project involved the following activities:

- a) Audit of materials available on the internet for investigating the idea of convergence in Mathematical Analysis; this is a subject which students typically find difficult.
- b) Production of java applets for exploration of the ideas of convergence in analysis.
- c) Identification of partners in the sector for the development of tools for computer aided assessment.
- d) Training of Leicester colleagues in the use of software developed by colleagues from the sector.
- e) Installation of software system for computer-aided assessment (this has not worked).
- f) Dissemination to staff in the department through staff meetings.
- g) The broadening of departmental activity in the area of computer aided learning.
- h) The increase of experience developed in the department to the use of technologies for distance learning.

1. PROJECT OUTCOMES AND ACHIEVEMENTS

We have learnt a great deal on how to design and implement questions for online assessment, which proved to be a substantially different endeavour to designing questions in classical Problem Sheets. We also developed effective ways of giving fair marking schemes, as when working on a CAA-problem the whole calculation of the student is not available (hence, marks can only come from the answer). We also understood for which classes of problems it is beneficial to use CAA. Also, we have established collaboration and communication with Dr. Robert Scheichl and his group from the Department of Mathematics at the University of Bath, UK, that has already developed two CAA revision Problem Sheets for their Vector Calculus module. Moreover, a joint pool of template exercises and frequent discussion between the Leicester and Bath CAA teams are, currently, in place.

Computer Aided Assessment Of Mathematics Computer Aided Assessment Of Mathematics

Sung Je Cho



Computer Aided Assessment Of Mathematics Computer Aided Assessment Of Mathematics:

Computer Aided Assessment of Mathematics Chris Sangwin, 2013-05-02 Assessment is a key driver in mathematics education This book examines computer aided assessment CAA of mathematics in which computer algebra systems CAS are used to establish the mathematical properties of expressions provided by students in response to questions In order to automate such assessment the relevant criteria must be encoded and in articulating precisely the desired criteria the teacher needs to think very carefully about the goals of the task Hence CAA acts as a vehicle to examine assessment and mathematics education in detail and from a fresh perspective One example is how it is natural for busy teachers to set only those questions that can be marked by hand in a straightforward way even though the constraints of paper based formats restrict what they do and why There are other kinds of questions such as those with non unique correct answers or where assessing the properties requires the marker themselves to undertake a significant computation It is simply not sensible for a person to set these to large groups of students when marking by hand However such questions have their place and value in provoking thought and learning This book aimed at teachers in both schools and universities explores how in certain cases different question types can be automatically assessed Case studies of existing systems have been included to illustrate this in a concrete and practical way

Technology Enhanced Assessment Desirée Joosten-ten Brinke, Mart Laanpere, 2017-05-11 This book constitutes the proceedings of the 19th International Conference on Technology Enhanced Assessment TEA 2016 held in Tallinn Estonia in October 2016 The 16 full papers presented were carefully selected from 38 submissions They are centered around topics like measurement of higher order skills collaborative problem solving or presentation skills the development of guidelines for authentication control the role of self assessment

Intelligent Algorithms and Software for Computer-aided Assessment in Mathematics D. Al-jumeily, 2000

Teaching Mathematics Online: Emergent Technologies and Methodologies Juan, Angel A., Huertas, Maria A., Trenholm, Sven, Steegmann, Cristina, 2011-08-31 This book shares theoretical and applied pedagogical models and systems used in math e learning including the use of computer supported collaborative learning which is common to most e learning practices Provided by publisher

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 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 Selected Regular Lectures from the 12th International Congress on Mathematical Education Sung Je Cho,2015-07-16 This book comprises the full selected Regular Lectures from 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 4700 experts from 100 countries working to understand all of the intellectual and attitudinal challenges in the subject of mathematics education as a multidisciplinary research and practice These selected Regular Lectures present the work of fifty one prominent mathematics educators from all over the globe The 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 *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 **Mathematical Software - ICMS 2018** James H. Davenport,Manuel Kauers,George Labahn,Josef Urban,2018-07-17 This book constitutes the proceedings of the 6th International Conference on Mathematical Software ICMS 2018 held in South Bend IN USA in July 2018 The 59 papers included in this volume were carefully reviewed and selected from numerous submissions The program of the 2018 meeting consisted of 20 topical sessions each of which providing an overview of the challenges achievements and progress in a subeld of mathematical software research development and use **Handbook of Digital Resources in Mathematics**

Education Birgit Pepin,Ghislaine Gueudet,Jeffrey Choppin,2024-06-21 This handbook presents the state of the art scholarship on theoretical frames mathematical content learning environments pedagogic practices teacher professional learning and policy issues related to the development and use of digital resources in mathematics education With the advent of more and more open access digital resources teachers choose from the web what they see fit for their classroom students choose in the moment what they need for their projects and learning paths However educators and students often find it difficult to choose from the abundance of materials on offer as they are uncertain about their quality and beneficial use It is clear that at a time of bouleversement of the teaching learning processes it is crucial to understand the quality and the potentially transformative aspects of digital resources This book provides comprehensive analyses of and insights into the transformative aspects of digital resources

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