Teaching Mathematics Online: Emergent Technologies and Methodologies

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Educational technologies (e-learning environments or learning management systems for individual and collaborative learning, Internet resources for teaching and learning, academic materials in electronic format, specific subject-related software, groupware and social network software, etc.) are changing the way in which higher education is delivered.

Teaching Mathematics Online: Emergent Technologies and Methodologies 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. The book also forecasts emerging technologies and tendencies regarding mathematical software, learning management systems, and mathematics education online and presents up-to-date research work on how mathematics education is changing in a global and Web-based world.

Topics Covered:

- Collaborative Learning in Mathematical Education
- Computer Supported Mathematical Learning
- Distributed E-Learning Environments for Mathematics
- E-Learning Management Systems and Mathematical Education
- Emerging Technologies in Mathematical Education
- Evaluation of Technology Systems for Math E-Learning
- Free and Open Source Software for Math Learning
- Groupware Systems in Mathematical Teaching
- Simulation-Supported Learning and Instruction in Mathematics
- Web-Based Mathematical Instruction/Learning

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Market: This premier publication is essential for all academic and research library reference collections. It is a crucial tool for academicians, researchers, and practitioners and is ideal for classroom use.
Section 1: Blended Experiences in Mathematics e-Learning

Chapter 1
A Model for Asynchronous Discussions in a Mathematics Content Course
Miller Travis K. (Millersville University, United States)

Chapter 2
A Blended Learning Approach in Mathematics
Abramoziira B. (ORT Braude College, Israel)
Berezina M. (ORT Braude College, Israel)
Berman A. (Technion Israel Institute of Technology, Israel)
Shvartsman L. (ORT Braude College, Israel)

Chapter 3
Screencasting for Mathematics Online Learning:
Loch Birgit (Swinburne University of Technology, Australia)

Chapter 4
Mathematics Education:
Albano Giovannina (Università di Salerno, Italy)

Chapter 5
Best Practices for Hybrid Mathematics Courses
Perdue Diana S. (Rimwe Educational Resources, USA)

Chapter 6
Implementation of Learning Outcomes in Mathematics for Non-Mathematics Major by Using E-Learning
Divjak B. (University of Zagreb, Croatia)

Section 2: Pure Online Experiences in Mathematics e-Learning

Chapter 7
Online Communities of Practice as Vehicles for Teacher Professional Development
Meletiou-Mavrotheris Maria (European University, Cyprus)

Chapter 8
Mathematics Bridging Education Using an Online, Adaptive E-Tutorial:
Dirk T. Tempelar (Maastricht University School of Business & Economics, the Netherlands)
Renzies Bart (Centre for Educational and Academic Development, University of Surrey, U.K.)
Kaper Wolter (Universiteit van Amsterdam, the Netherlands)
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Evert van de Vrie (Open Universiteit Nederland, the Netherlands)
Henk van der Kooij (Friedenthal Institute, Universiteit Utrecht, the Netherlands)
Cuypers Hans (Technische Universiteit Eindhoven, the Netherlands)

Chapter 9
Teaching Mathematics Teachers Online:
Jarvis D. H. (Nipissing University, Canada)

Chapter 10
Developing Teachers' Mathematical Knowledge for Teaching through Online Collaboration
Silverman Jason (Drexel University, USA)
Clay Ellen L. (Drexel University, USA)

Chapter 11
Self-Regulated Learning and Self Assessment in Online Mathematics Bridging Courses
Bienler R. (University of Paderborn, Germany)
Fischer P. R. (University of Kassel, Germany)
Hochmuth R. (University of Kassel, Germany)
Wassong Th. (University of Paderborn, Germany)

Chapter 12
Long-Term Experiences in Mathematics E-Learning in Europe and the USA
Trenholm Sven (Loughborough University, UK)
Juan Angel A. (Open University of Catalonia, Spain)
Simons Jorge (Massachusetts Institute of Technology, MA, USA)
Oliveira Amilcar (Universidade Aberta, Portugal)
Oliveira Teresa (Universidade Aberta, Portugal)

Section 3: Mathematics Software & Web Resources for Mathematics e-Learning

Chapter 13
My Equations Are the Same as Yours!
Badger M (School of Mathematics, University of Birmingham, UK)
Sangwin C. J (Maths, Stats & OR Network, School of Mathematics, University of Birmingham, UK)

Chapter 14
Interactive Web-Based Tools for Learning Mathematics:
Cherkas Barry (Hunter College of the City University of New York, USA)
Weaver Rachael M. (Hunter College of the City University of New York, USA)

Chapter 15
NAUK.
Lojk M. (University of Ljubljana, Faculty of Mathematics and Physics, Slovenia)
Lukić P. (University of Ljubljana, Faculty of Mathematics and Physics, Slovenia)
Horvat B. (University of Ljubljana, Faculty of Mathematics and Physics, Slovenia)

Chapter 16
Software Tools Used in Math Refresher Courses at the University of Alcalá, Spain
Alcázar J.G. (Department of Mathematics, University of Alcalá, Spain)
Marvá M. (Department of Mathematics, University of Alcalá, Spain)
Orden D. (Department of Mathematics, University of Alcalá, Spain)
San Segundo F. (Department of Mathematics, University of Alcalá, Spain)

Chapter 17
Formula Editors and Handwriting in Mathematical E-Learning
Misfeldt Morten (The Danish School of Education, Aarhus University, Denmark)
Sanne Anders (Norwegian University of Science and Technology (NTNU), Norway)

Chapter 18
The Role of Technology in Mathematics Support:
Mac an Bhaird Ciarán (National University of Ireland Maynooth, Ireland)
O’Shea Ann (National University of Ireland Maynooth, Ireland)