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Updated March 14th, 2010

Call for Chapters for IGI Book

<http://dpcs.uoc.edu/emath>

Teaching Mathematics Online: Emergent Technologies and Methodologies

[PDF version of this Call for Chapters](#) 

CALL FOR CHAPTERS - IGI GLOBAL

- 2-5 Page Proposal Deadline: **March 15th, 2010**
- Book Title: *Teaching Mathematics Online: Emergent Technologies and Methodologies*
- Keywords: Math e-learning, math education, online learning, asynchronous online, blended learning, mathematical software, learning management systems, higher education.
- To be published by IGI Global <http://www.igi-global.com>. Part of the *Advances in Distance Education Technologies Series* <http://www.igi-global.com/bookseries/details.asp?id=13>.
- A book edited by:

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INTRODUCTION

Educational technologies are changing the way in which higher education is delivered. These technologies include 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. With the ubiquitous nature of technological innovation, over the last decades not only have we seen the growth of new purely-online universities, but we are also witnessing the transformation of how instruction is being delivered in most traditional face-to-face universities -affecting the nature of the courses as well as degree programs they offer. These technological innovations have driven the growth of distance learning opportunities, as students who are time-bound due to job or travel difficulties or place-bound due to geographic location or physical disabilities can now access courses and degree programs at their convenience. E-learning models are currently practiced widely all over the world. Regarding the areas of Mathematics and Statistics, educational reforms are widespread both in purely-online and face-to-face education. Many instructors have been encouraged to try new teaching strategies based on online support, inter-disciplinary collaborative learning, and integration of mathematical and statistical software in their courses. University departments worldwide have been leveraging technological capabilities in creating new engaging curricula that promotes conceptual understanding instead of procedural knowledge. Nevertheless, seeing implementation in mathematics has not been easy -numerous challenges must be confronted. Some of these challenges are due to the intrinsic demographic characteristics of the so-called "Internet-generation" students while others are due to the intrinsic disciplinary nature of Mathematics and Statistics.

RECOMMENDED TOPICS INCLUDE, BUT ARE NOT LIMITED TO, THE FOLLOWING:

- Mathematical e-learning
- Computer Supported Mathematical Learning
- Groupware systems in Mathematical teaching
- Collaborative learning in Mathematical education
- Distributed e-learning environments for Mathematics
- Web-based Mathematical instruction/learning
- Evaluation of technology systems for Math e-learning
- Free and open source software for Math learning
- Simulation-supported learning and instruction in Mathematics
- E-learning management systems and Mathematical education
- Emerging technologies in Mathematical education
- Technology-driven Math e-learning models and strategies
- Multimedia and interactive Math e-learning systems
- Technological standardization in Mathematical learning
- Practices in Mathematical learning and teaching
- Surveys of Math e-learning adoption and results in education
- Future of Math e-learning

OVERALL OBJECTIVES OF THE BOOK

- To identify and publish worldwide best practices regarding Math e-learning in higher education.

- To share theoretical or applied pedagogical models and systems used in Math e-learning including the use of computer-supported collaborative learning common to most e-learning practices.
- To forecast emerging technologies and tendencies regarding mathematical software, learning management systems and mathematics education online.
- To provide the academic community with a base text that could serve as a reference in research in mathematics education.
- To present up-to-date research work on how mathematics education is changing in a global and web-based world.

TARGET AUDIENCE

The target audience of this book are researchers, academics and students involved in e-learning research and practice, in particular those in the fields of mathematics and statistics. This book will be also of interest for instructional designers implementing math courses online.

SUBMISSION PROCEDURE

Researchers and practitioners are invited to submit on or before **March 15th, 2010**, a **2-5 page manuscript proposal (MS Word)** clearly explaining the mission and concerns of the proposed chapter. Authors of accepted proposals will be notified by **May 1st, 2010** about the status of their proposals and sent chapter organizational guidelines. Full chapters are expected to be submitted by **July 1st, 2010**. All submitted chapters will be reviewed on a **double-blind review** basis.

Inquiries and submissions can be forwarded by e-mail to any of the book editors (indicate subject: *Teaching Mathematics Online: Emergent Technologies and Methodologies*).

PUBLISHER

This book is scheduled to be published by IGI Global (formerly Idea Group Inc.), publisher of the "Information Science Reference" (formerly Idea Group Reference), "Medical Information Science Reference," "Business Science Reference," and "Engineering Science Reference" imprints. For additional information regarding the publisher, please visit <http://www.igi-global.com>. This publication is anticipated to be released in 2011.

IMPORTANT DATES

- 2-5 Page Proposal Deadline: **March 15th, 2010**
- Proposal Acceptance/Rejection: May 1st, 2010
- Full Chapters Deadline: **July 1st, 2010**
- Review Results: September 15th, 2010
- Revised Chapters Deadline: **October 15th, 2010**
- Notification of Final Acceptation/Rejection: October 31st, 2010
- Submission of Final Chapters: **November 15th, 2010**

EDITORIAL ADVISORY BOARD

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