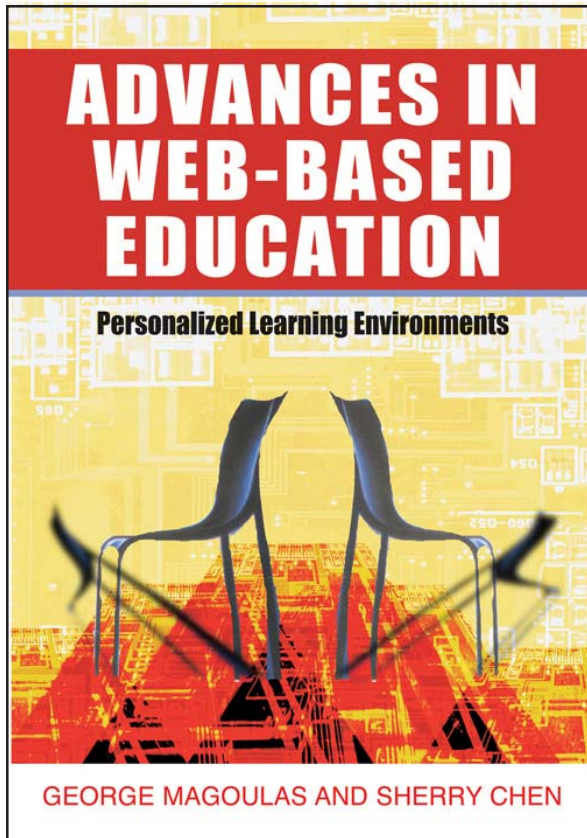# INFORMATION SCIENCE PUBLISHING

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Advances in Web-Based Education

Personalized Learning Environments

Edited by:
George D. Magoulas
Birkbeck College, University of London, UK
Sherry Chen
Brunel University, UK

Advances in technology are increasingly impacting the way in which curriculum is delivered and assessed. The emergence of the Internet has offered learners a new instructional delivery system that connects them with educational resources.

Advances in Web-Based Education: Personalized Learning Environments covers a wide range of factors that influence the design, use and adoption of personalized learning environments, and it shows how user and pedagogical considerations can be integrated into the design, development and implementation of adaptive hypermedia systems to create effective personalized learning environments.

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- An adaptive predictive model for student modelling
- Giving learners a real sense of control over adaptivity
- Building an instructional framework to support learner control in adaptive educational hypermedia systems
- Bridging the gap with MAID
- An adaptive feedback framework to support reflection, guiding and tutoring
- Adaptable navigation in a SCORM compliant learning module
- Authoring of adaptive hypermedia
- From non-adaptive to adaptive educational hypermedia

And More...

Advances in Web-Based Education

- Explores how to embrace the various dimensions of user traits into personalized learning environments
- Covers a wide range of issues involved in designing and implementing environments for personalized learning, such as user modeling and authoring
- Provides several examples of implementation in various educational domains
- Teaches design guidelines for the development adaptive hypermedia that can accommodate individual differences
- Shows examples of how learners' traits can be combined in a personalized learning environment

About the Editors

Dr. George D. Magoulas is Reader in Computer Science in the School of Computer Science and Information Systems at Birkbeck College, University of London. Dr Magoulas was educated at the University of Patras, Greece, in Electrical and Computer Engineering (BEng/MEng, PhD), and holds a Post Graduate Certificate in Teaching and Learning in Higher Education from Brunel University, UK. He has published over 100 research contributions in leading international journals, conferences and books, and has participated in several industrial and academic research projects at European and National levels. Dr. Magoulas is a member of the IEEE, the User Modeling Inc., the Technical Chamber of Greece and the Hellenic Artificial Intelligence Society. His work in personalized systems is currently funded by the UK Engineering and Physical Sciences Research Council, and the UK Arts and Humanities Research Board.

Dr. Sherry Y. Chen received her Certificate of Computer Programming from the National Taiwan University, her Doctor of Philosophy in the Department of Information Studies from the University of Sheffield (UK), her Master of Library Science from the University of Maryland (USA), and her Bachelor of Art from Fu Jen Catholic University (Taiwan). Dr. Chen is currently a Lecturer in the Department of Information Systems and Computing at Brunel University (UK).

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