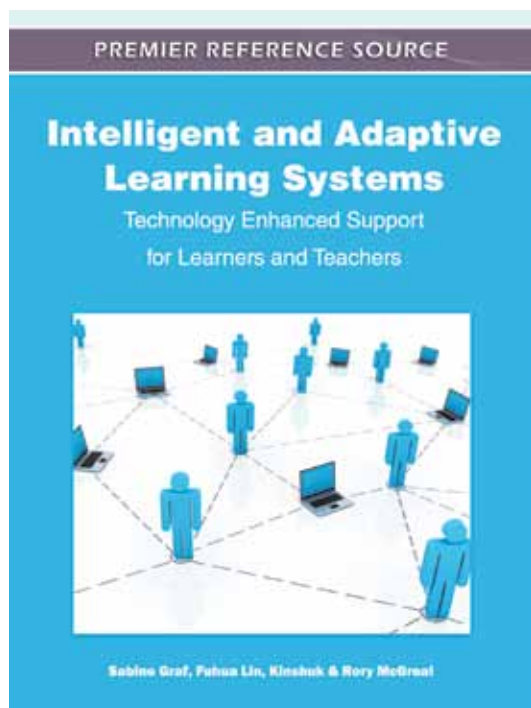


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Released: August 2011

Intelligent and Adaptive Learning Systems: Technology Enhanced Support for Learners and Teachers



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Technology enhanced learning takes place in many different forms and contexts, including formal and informal settings, individual and collaborative learning, learning in the classroom, at home, at work, and outdoor in real life situations, as well as desktop-based learning and learning by using mobile devices. Environments range from desktop-based learning systems such as learning management systems, which present learners with learning material and activities, to mobile, pervasive, and ubiquitous learning environments which are used in real life settings and enable learners to learn from real learning objects. In each of these forms and contexts, adaptive and intelligent support has potential to contribute in making such learning environments more personalized, user-friendly, and effective in supporting learners in learning.

Intelligent and Adaptive Learning Systems: Technology Enhanced Support for Learners and Teachers focuses on how intelligent support and adaptive features can be integrated in currently used learning systems and discusses how intelligent and adaptive learning systems can be improved in order to provide a better learning environment for learners. This book provides academics as well as professional practitioners innovative research work for enhancing learning environments with adaptively and intelligent support in different contexts and settings, ranging from provision of courses and assessment in formal desktop-based learning systems to learning environments that support collaborative, informal, ubiquitous learning.

Topics Covered:

- Automatic Composition of Exams and Creation Of Questions
- Curriculum Planning
- Group Formation
- Individual Support of Learners in Groups
- Intelligent and Adaptive Feedback for Learners
- Peer Assessment
- Presentation and Navigation Support
- Sequencing of Learning Objects

ISBN: 9781609608422; © 2012; 424 pp.
Print: US \$195.00 | Perpetual: US \$295.00 | Print + Perpetual: US \$390.00

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.

Sabine Graf has a PhD from Vienna University of Technology, Austria, and is presently an Assistant Professor at Athabasca University, School of Computing and Information Systems, in Canada. Her research expertise and interests include adaptivity and personalization, student modeling, ubiquitous and mobile learning, artificial intelligence, and collaborative learning technologies. She has published more than 60 peer-reviewed journal papers, book chapters, and conference papers in these areas, of which three conference papers were awarded with the best paper award. Dr. Graf is Executive Board Member of the IEEE Technical Committee on Learning Technologies, Editor of the *Learning Technology Newsletter*, a publication of the IEEE Computer Society's Technical Committee on Learning Technology (TCLT), and Associate Editor of the *International Journal of Interaction Design and Architectures*. She is an active member of the research community, serving as editorial board member of three international journals, workshop chair and organizer of eight international workshops, doctoral consortium chair at three international conferences, and guest editor of three special issues. Furthermore, Dr. Graf has been invited to give keynote/invited talks at universities/companies/conferences in Austria, Canada, Colombia, New Zealand, Taiwan, and UK.

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