Recommender systems have shown to be successful in many domains where information overload exists. This success has motivated research on how to deploy recommender systems in educational scenarios to facilitate access to a wide spectrum of information. Tackling open issues in their deployment is gaining importance as lifelong learning becomes a necessity of the current knowledge-based society. Although Educational Recommender Systems (ERS) share the same key objectives as recommenders for e-commerce applications, there are some particularities that should be considered before directly applying existing solutions from those applications.

Educational Recommender Systems and Technologies: Practices and Challenges aims to provide a comprehensive review of state-of-the-art practices for ERS, as well as the challenges to achieve their actual deployment. Discussing such topics as the state-of-the-art of ERS, methodologies to develop ERS, and architectures to support the recommendation process, this book covers researchers interested in recommendation strategies for educational scenarios and in evaluating the impact of recommendations in learning, as well as academics and practitioners in the area of technology enhanced learning.

Topics Covered:
- Building Inclusive ERS
- Current Limitations of ERS
- Developing ERS
- ERS for Enhancing Meta-Cognitive Features
- ERS in Collaborative Settings
- Main Challenges for ERS
- Meta-Cognitive Issues and ERS
- Methodologies to Develop ERS
- Modeling Issues in Developing ERS
- Peer-To-Peer Learning and ERS
- Recommendation Techniques for ERS

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: Knowledge Modeling for the Recommendation Process

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Educational Recommendation in an Informal Intentional Learning System
Okoye Ifeyinwa (University of Colorado at Boulder, USA)
Maull Keith (University of Colorado at Boulder, USA)
Foster James (University of Colorado at Boulder, USA)
Sumner Tamara (University of Colorado at Boulder, USA)

Chapter 2
Meta:
Underwood Jody S. (Intelligent Automation, Inc., USA)

Chapter 3
Context-Aware Recommendations using Topic Maps Technology for the Enhancement of the Creativity Process
SOLID George A. (University of Cyprus, Cyprus)
Metzotttis Christos (University of Cyprus, Cyprus)
Tramavari Aimilia (University of Cyprus, Cyprus)
Papapoulos George A. (University of Cyprus, Cyprus)

Chapter 4
An Ontology Network for Educational Recommender Systems
Díaz Alcia (Universidad Nacional de La Plata, Argentina)
Mota Regina (Universidad de la República, Uruguay)
Robner Edelweis (Universidad de la República, Uruguay)
Vansiri Libertad (Universidad de la República, Uruguay)

Section 2: Techniques, Algorithms and Architectures to Support the Recommendation Process

Chapter 5
Reputation in Peer-Based Learning Environments
Hennis Thieme (Delft University of Technology, The Netherlands)
Laizkosch Stephan (Delft University of Technology, The Netherlands)
Veen Wim (Delft University of Technology, The Netherlands)

Chapter 6
Factorization Techniques for Predicting Student Performance
Thai-Nghe Nguyen (University of Hildesheim, Germany)
Drumond Lucus (University of Hildesheim, Germany)
Horwarth Tomáš (University of Hildesheim, Germany)
Krohn-Grermbergher Artus (University of Hildesheim, Germany)
Nanopoulos Alexandros (University of Hildesheim, Germany)
Schmidt-Thieme Lars (University of Hildesheim, Germany)

Chapter 7
Clustering of the Web Search Results in Educational Recommender Systems
Bodea Constanta-Nicoleta (Academy of Economic Studies, Romania)
Dascułu Maria-Iuliana (Academy of Economic Studies, Romania)
Lipai Adina (Academy of Economic Studies, Romania)

Section 3: Real World E-Learning Scenarios

Chapter 11
Case Study:
Leino Juha (University of Tampere, Finland)

Section 4: Challenges for Educational Recommender Systems

Chapter 12
Challenges to Use Recommender Systems to Enhance Meta-Cognitive Functioning in Online Learners
Zhou Mingming (Nanyang Technological University, Singapore)
Xu Yabo (Sun Yet-sen University, P. R. China)

Chapter 13
Providing Recommendations for Mobile Learning
Liu Chengzhi (Norwegian University of Science and Technology, Norway)
Divitini Monica (Norwegian University of Science and Technology, Norway)