Metacognition and Successful Learning Strategies in Higher Education

Part of the Advances in Higher Education and Professional Development Book Series

Elena Railean (Tiraspol State University, Moldova), Alev Elçi (Aksaray University, Turkey) and Atilla Elçi (Aksaray University, Turkey)

Description:

Metacognition plays an important role in numerous aspects of higher educational learning strategies. When properly integrated in the educational system, schools are better equipped to build more efficient and successful learning strategies for students in higher education.

Metacognition and Successful Learning Strategies in Higher Education is a detailed resource of scholarly perspectives that discusses current trends in learning assessments. Features extensive coverage on topics such as spiritual intelligence strategies, literacy development, and ubiquitous learning.

Readers:

This is an ideal reference source for academicians, graduate students, practitioners, and researchers who want to improve their learning strategies using metacognition studies.


Topics Covered:

- Intellectual Skills
- Spiritual Intelligence
- Literacy Development
- STEAM Education
- Non-Algorithmic Education
- Ubiquitous Learning
- Social Network Analysis

Hardcover + Free E-Book: $185.00  E-Book Only: $185.00

Order Information
Phone: 717-533-8845 x100
Toll Free: 1-866-342-6657
Fax: 717-533-8661 or 717-533-7115
Online Bookstore: www.igi-global.com
Table of Contents

Foreword

Preface

Acknowledgment

Section 1
Ubiquitous Learning Environment for the 21st Century
Generative Competence

Chapter 1
Metacognition in Higher Education: Successful Learning
Strategies and Tactics for Sustainability
Elena Railean, Tiraspol State University, Republic of Moldova

Chapter 2
Development of Metacognition in Higher Education: Concepts
and Strategies
Maizam Alias, Universiti Tun Hussein Onn Malaysia, Malaysia
Nor Lisa Sulaiman, Universiti Tun Hussein Onn Malaysia, Malaysia

Chapter 3
Academic Learning between Cognition and Metacognition:
Analyses and Highlights in Higher Education
Ioan Neacscu, University of Bucharest, Romania

Chapter 4
Metacognition and Metacognitive Skills: Technology for
Development of Intellectual Skills
Nailya Sh. Valeyeva, Kazan National Research Technological
University, Russian Federation
Roman Kupriyanov, Moscow State Pedagogical University,
Russian Federation
Elvira R. Valeyeva, Kazan National Research Technological
University, Russian Federation

Section 2
Improving Metacognitive Skills and Strategies in Higher
Education

Chapter 5
Learning to Learn at the Crossroads of Theory and Practice:
Learn at the Crossroads
Manoj Kumar, International Engineering Services, India

Chapter 6
Metacognitive Strategies in Higher Education: Development of
Spiritual Intelligence Strategies within Training of the Academic
Staff
Birma N. State University of Moldova, Republic of Moldova

Butnari Nadejda, University State of Moldova, Republic of
Moldova

Chapter 7
Metacognition of Organization Members as the Basis
of Learning Strategy in Higher Education: The Staff's Idea of
Organization
Irina Sergeyevna Yakimanskaya, Orenburg State University,
Russian Federation
Anna Mikhailovna Molokostova, Orenburg State University,
Russian Federation
Milyausha Yakubovna Ibragimova, Kazan (Volga region)
Federal University, Russian Federation

Chapter 8
Improving Metacognitive Skills in Higher Education: Focusing
on Student's Psychological Correlates
Adela Moraru, Dimitrie Cantemir University of Targu Mures,
Romania

Chapter 9
Facebook Discussion to Enhance English Learners’
Metacognitive Strategies
Pei-Ling Yang, Oriental Institute of Technology, Taiwan

Section 3
The Importance of Metacognition for Teaching Art,
Mathematics and Literature

Chapter 10
Conceptual Framework for Non-Algorithmic Education in
STEAM Education: Toward Metacognitive Strategies
Marina Morari, “Alecu Russo” State University, Balti, Republic
of Moldova

Chapter 11
Investigating the Correlation between Clicker Usage and
Learning Gains in University Mathematics: The Influence of
Metacognitive Growth
Samuel Olugbenga King, Coventry University, USA

Chapter 12
Using Metacognitive Strategies in the STEM Field
Gina Mariano, Troy University, USA
Fred J. Figliano, Troy University, USA
Autumn Dozier, Middle Tennessee State University, USA

Chapter 13
Metacognition in the Teaching of Literature
Martina Petrikova, University of Presov, Slovakia

Compilation of References
About the Contributions

Index

Elena Railean, PhD in Pedagogy, is an Associate Professor at Tiraspol State University. She is the author of 4 monographs, 2
edited books, and 75 scientific articles. The main area of research is: global education, applied learning theory and modeling,
metacognition, learning strategies, knowledge management and digital textbooks use and development. The last projects
are: Railean, E. (2017). User interface design of digital textbooks: How screens affect learning (pp. 1-97). In Huang, R., Kinshuk, J.,
Hershey, PA: IGI Global and Railean, E. (2015). Psychological and pedagogical consideration in digital textbook use and
development (pp. 1-295). Hershey, PA: IGI Global.
**Alev Elçi, PhD** works as Assistant Professor in Aksaray University, Management Information Systems Department. She was a visiting researcher in Roger Williams University with a six months grant of Scientific and Technological Research Council of Turkey (TÜBİTAK). Her main research areas are faculty development, technology enhanced learning, educational technology, social networks, learning communities, animation and game based learning, internationalization, and narrative approaches. She has a book titled “Faculty Beliefs and Needs: Opening the Gate to ICT-based Professional Development in Teaching and Learning”. She is currently teaching database management, management information systems, knowledge economy and management.

**Alev Elçi** is full professor, chairman of Dept Electrical-Electronics and Computer Engineering, Faculty of Engineering at Aksaray University since August 2012. His Professional practice includes the Int'l Telecom Union, Switzerland, as chief technical advisor for computerization field projects (1985-97) and Info Tech & Telecoms Pvt Ltd as founder/managing director, Turkey (1997-2003). He has organized/served for committees of numerous international conferences. He has organized IEEE COMPSAC & ESAS since 2006, SinConfs since 2007; and, IJPCS Symposia 2008-9. He has published over a hundred journal and conference papers, edited the Semantic Agent Systems (Springer, 2011), Theory and Practice of Cryptography Solutions for Secure Information Systems (IGI Global, 2013) and the proceedings of SIN Conferences by ACM, ESAS 2006-14 by IEEE CS. He was the program chair for the 36th IEEE COMPSAC (2012); track chair for 2008-2013, Standing Committee Member 2014 onwards. He is an associate editor of Expert Systems: The Journal of Knowledge Engineering and editorial board member of several other journals. BSEE METU, Ankara (1970), M.Sc. & Ph.D. in Computer Sciences, Purdue Univ, USA (1973, 1975).