Formative Assessment, Learning Data Analytics and Gamification. Intelligent Data-Centric Systems: Sensor Collected Intelligence

Description:
Formative Assessment, Learning Data Analytics and Gamification: An ICT Education discusses the challenges associated with assessing student progress given the explosion of e-learning environments, such as MOOCs and online courses that incorporate activities such as design and modeling. This book shows educators how to effectively garner intelligent data from online educational environments that combine assessment and gamification.

This data, when used effectively, can have a positive impact on learning environments and be used for building learner profiles, community building, and as a tactic to create a collaborative team. Using numerous illustrative examples and theoretical and practical results, leading international experts discuss application of automatic techniques for e-assessment of learning activities, methods to collect, analyze, and correctly visualize learning data in educational environments, applications, benefits and challenges of using gamification techniques in academic contexts, and solutions and strategies for increasing student participation and performance.

- Discusses application of automatic techniques for e-assessment of learning activities
- Presents strategies to provide immediate and useful feedback on students’ activities
- Provides methods to collect, analyze, and correctly visualize learning data in educational environments
- Explains the applications, benefits, and challenges of using gamification techniques in academic contexts
- Offers solutions to increase students’ participation and performance while lowering drop-out rates and retention levels

Contents:
Introduction Chapter: Challenges in ICT Education: An overview

Topics: ICT Education
eLearning
CSCL
Formative tools for e-Assessment, Learning Data Analytics
Gamification for education
Adaptive and personalized e-Learning
Affective and emotional approaches
Live and virtualized collaboration
Security for e-Learning
Multimedia systems for e-Learning

SECTION I:
Strategies and Tools for Formative e-Assessment

Topics: Formative assessment for e-Learning
Feedback generation, support and automation
Methodologies for the design of e-assessment activities, resources and tools
Self, peer and collaborative e-assessment
Human-Computer interaction in e-assessment and feedback
Best practices and case studies in e-assessment and feedback

eLearning, m-learning, u-Learning and CSCL
Feedback generation, support and automation
Knowledge-based technologies for e-Learning
Methodologies for the design of e-assessment activities, resources and tools
Best practices and case studies in e-assessment and feedback

SECTION II:

Learning Data Analytics for Tracking and Decision Making

Topics: Learning Data Analytics
Monitoring and analysis of individual and group interactions
Knowledge-based technologies for e-Learning
Information visualization techniques for supporting and analyzing group learning processes
Assessment Analytics

Data Learning Analytics

Monitoring and analysis of individual and group interactions

Information visualization techniques for supporting and analyzing group learning processes

Data Assessment Analytics

Pattern Recognition and Text Analytics

Prediction, Personalization & Adaptation

SECTION III:

Methodologies and Techniques for Gamification

Topics: Gamification for e-Learning
Techniques and strategies of gamification in educational environments
Best practices and user experiences of gamification in e-Learning


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