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Big Data and Learning Analytics in Higher Education

Current Theory and Practice

 Springer

Big Data And Learning Analytics In Higher Education

Current Theory And Practice

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Big Data And Learning Analytics In Higher Education Current Theory And Practice:

Big Data and Learning Analytics in Higher Education Ben Kei Daniel, 2016-08-27 This book focuses on the uses of big data in the context of higher education The book describes a wide range of administrative and operational data gathering processes aimed at assessing institutional performance and progress in order to predict future performance and identifies potential issues related to academic programming research teaching and learning Big data refers to data which is fundamentally too big and complex and moves too fast for the processing capacity of conventional database systems The value of big data is the ability to identify useful data and turn it into useable information by identifying patterns and deviations from patterns

Learning Analytics in Higher Education Jaime Lester, Carrie Klein, Aditya Johri, Huzefa Rangwala, 2018-08-06 Learning Analytics in Higher Education provides a foundational understanding of how learning analytics is defined what barriers and opportunities exist and how it can be used to improve practice including strategic planning course development teaching pedagogy and student assessment Well known contributors provide empirical theoretical and practical perspectives on the current use and future potential of learning analytics for student learning and data driven decision making ways to effectively evaluate and research learning analytics integration of learning analytics into practice organizational barriers and opportunities for harnessing Big Data to create and support use of these tools and ethical considerations related to privacy and consent Designed to give readers a practical and theoretical foundation in learning analytics and how data can support student success in higher education this book is a valuable resource for scholars and administrators

Strategy, Policy, Practice, and Governance for AI in Higher Education Institutions Almaraz-Menéndez, Fernando, Maz-Machado, Alexander, López-Esteban, Carmen, Almaraz-López, Cristina, 2022-05-27 The digital transformation of higher education institutions has accelerated in the last decade due to the confluent development of digital technologies Understanding how artificial intelligence enabled changes and improvements in universities in relation to teaching management sustainability and research allows researchers to understand the advances and identify the challenges that may arise This knowledge provides technological instruments as well as cognitive philosophical and epistemological tools to address different current issues Strategy Policy Practice and Governance for AI in Higher Education Institutions offers both empirical and theoretical information focused on artificial intelligence and its various applications in higher education institutions It includes research results authoritative overview articles high quality analysis on trends comparative studies and analysis of cases that focus on issues including ethical issues and risks for applying AI in higher education policies to introduce AI in curricula and applications in teaching and learning Covering topics such as artificial intelligence ethics energy efficiency and postsecondary administrative leadership this premier reference source is an essential resource for computer scientists AI scientists administration of higher education institutions educators and faculty of higher education pre service teachers researchers IT professionals and academicians

Adoption of Data Analytics in Higher Education Learning

and Teaching Dirk Ifenthaler, David Gibson, 2020-08-10 The book aims to advance global knowledge and practice in applying data science to transform higher education learning and teaching to improve personalization access and effectiveness of education for all Currently higher education institutions and involved stakeholders can derive multiple benefits from educational data mining and learning analytics by using different data analytics strategies to produce summative real time and predictive or prescriptive insights and recommendations Educational data mining refers to the process of extracting useful information out of a large collection of complex educational datasets while learning analytics emphasizes insights and responses to real time learning processes based on educational information from digital learning environments administrative systems and social platforms This volume provides insight into the emerging paradigms frameworks methods and processes of managing change to better facilitate organizational transformation toward implementation of educational data mining and learning analytics It features current research exploring the a theoretical foundation and empirical evidence of the adoption of learning analytics b technological infrastructure and staff capabilities required as well as c case studies that describe current practices and experiences in the use of data analytics in higher education **Theory and Method in Higher Education Research** Jeroen Huisman, Malcolm Tight, 2024-12-09 In this volume of Theory and Method in Higher Education Research the international authorship stemming from the UK Germany Belgium the Netherlands Austria Norway and Italy provide rich and varied forum for higher education discussions around issues of theory and method

Responsible Analytics and Data Mining in Education Badrul H. Khan, Joseph Rene Corbeil, Maria Elena Corbeil, 2018-12-07 Winner of two Outstanding Book Awards from the Association of Educational Communications and Technology Culture Learning how the data and its interpretations may inadvertently impact students faculty and institutions the quality and reliability of data as well as the accuracy of data based decisions ethical implications surrounding the collection distribution and use of student generated data and more This volume unpacks and explores this complex issue through a systematic framework whose dimensions address the issues that must be considered before implementation of a new initiative or program **Intelligent Systems and Learning Data Analytics in Online Education** Santi Caballé, Stavros N. Demetriadis, Eduardo Gómez-Sánchez, Pantelis M. Papadopoulos, Armin Weinberger, 2021-06-15 Intelligent Systems and Learning Data Analytics in Online Education provides novel artificial intelligence AI and analytics based methods to improve online teaching and learning This book addresses key problems such as attrition and lack of engagement in MOOCs and online learning in general This book explores the state of the art of artificial intelligence software tools and innovative learning strategies to provide better understanding and solutions to the various challenges of current e learning in general and MOOC education In particular Intelligent Systems and Learning Data Analytics in Online Education shares stimulating theoretical and practical research from leading international experts This publication provides useful references for educational institutions industry academic researchers professionals developers and practitioners to evaluate and apply

Presents the application of innovative AI techniques to collaborative learning activities Offers strategies to provide automatic and effective tutoring to students activities Offers methods to collect analyze and correctly visualize learning data in educational environments *Big Data* John Storm Pedersen, Adrian Wilkinson, 2019 Promise Application and Pitfalls

Computational Intelligence in Industry 4.0 and 5.0 Applications JOSEPH BAMIDELE AWOTUNDE, Kamalakanta Muduli, BISWAJIT BRAHMA, 2025-02-06 Industry 4.0 and 5.0 applications will revolutionize production enabling smart manufacturing machines to interact with their environments These machines will become self aware self learning and capable of real time data interpretation for self diagnosis and prevention of production issues They will also self calibrate and prioritize tasks to enhance production quality and efficiency Computational Intelligence in Industry 4.0 and 5.0 Applications examines applications that merge three key disciplines computational intelligence CI Industry 4.0 and Industry 5.0 It presents solutions using Industrial Internet of Things IIoT technologies augmented by CI based techniques modeling controls estimations applications systems and future scopes These applications use data from smart sensors processed through enhanced CI methods to make smart automation more effective Industry 4.0 integrates data and intelligent automation into manufacturing using technologies like CI the IoT the IIoT and cloud computing It transforms data into actionable insights for decision making and process optimization essential for modern competitive businesses managing high speed data integration in production processes Currently Industries 4.0 and 5.0 are undergoing significant transformations due to advances in applying artificial intelligence AI big data analytics telecommunication technologies and control theory These applications are increasingly multidisciplinary integrating mechanical control and information technologies However they face such technical challenges as parametric uncertainties external disturbances sensor noise and mechanical failures To address these this book examines such CI technologies as fuzzy logic neural networks and reinforcement learning and their application to modeling control and estimation It also covers recent advancements in IIoT sensors microcontrollers and big data analytics that further enhance CI based solutions in Industry 4.0 and 5.0 systems Data Cultures in Higher Education Juliana E. Raffaghelli, Albert Sangrà, 2023-03-07 This collection focuses on the role of higher education institutions concerning datafication as a complex phenomenon It explores how the universities can develop data literacies shaping tomorrow skills and formae mentis to face the most deleterious effects of datafication but also to engage in creative and constructive ways with data Notably the book spots data practices within the two most relevant sides of academics professional practice namely research and teaching Hence the collection seeks to reflect on faculty's professional learning about data infrastructures and practices The book draws on a range of studies covering the higher education response to the several facets of data in society from data surveillance and the algorithmic control of human behaviour to empowerment through the use of open data The research reported ranges from literature overviews to multi case and in depth case studies illustrating institutional and educational responses to different problems connected to data The ultimate intention is to provide conceptual bases and

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Table of Contents Big Data And Learning Analytics In Higher Education Current Theory And Practice

1. Understanding the eBook Big Data And Learning Analytics In Higher Education Current Theory And Practice
 - The Rise of Digital Reading Big Data And Learning Analytics In Higher Education Current Theory And Practice
 - Advantages of eBooks Over Traditional Books
2. Identifying Big Data And Learning Analytics In Higher Education Current Theory And Practice
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Big Data And Learning Analytics In Higher Education Current Theory And Practice
 - User-Friendly Interface
4. Exploring eBook Recommendations from Big Data And Learning Analytics In Higher Education Current Theory And Practice
 - Personalized Recommendations
 - Big Data And Learning Analytics In Higher Education Current Theory And Practice User Reviews and Ratings
 - Big Data And Learning Analytics In Higher Education Current Theory And Practice and Bestseller Lists

5. Accessing Big Data And Learning Analytics In Higher Education Current Theory And Practice Free and Paid eBooks
 - Big Data And Learning Analytics In Higher Education Current Theory And Practice Public Domain eBooks
 - Big Data And Learning Analytics In Higher Education Current Theory And Practice eBook Subscription Services
 - Big Data And Learning Analytics In Higher Education Current Theory And Practice Budget-Friendly Options
6. Navigating Big Data And Learning Analytics In Higher Education Current Theory And Practice eBook Formats
 - ePub, PDF, MOBI, and More
 - Big Data And Learning Analytics In Higher Education Current Theory And Practice Compatibility with Devices
 - Big Data And Learning Analytics In Higher Education Current Theory And Practice Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Big Data And Learning Analytics In Higher Education Current Theory And Practice
 - Highlighting and Note-Taking Big Data And Learning Analytics In Higher Education Current Theory And Practice
 - Interactive Elements Big Data And Learning Analytics In Higher Education Current Theory And Practice
8. Staying Engaged with Big Data And Learning Analytics In Higher Education Current Theory And Practice
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Big Data And Learning Analytics In Higher Education Current Theory And Practice
9. Balancing eBooks and Physical Books Big Data And Learning Analytics In Higher Education Current Theory And Practice
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Big Data And Learning Analytics In Higher Education Current Theory And Practice
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Big Data And Learning Analytics In Higher Education Current Theory And Practice
 - Setting Reading Goals Big Data And Learning Analytics In Higher Education Current Theory And Practice
 - Carving Out Dedicated Reading Time

12. Sourcing Reliable Information of Big Data And Learning Analytics In Higher Education Current Theory And Practice
 - Fact-Checking eBook Content of Big Data And Learning Analytics In Higher Education Current Theory And Practice
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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