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Advanced AI and Data Science Applications D. Sivabalaselvamani,G. Revathy,Ranjit Singh Sarban Singh,2025-09-25
Advanced AI and Data Science Applications explores how the latest developments in artificial intelligence AI and data science are transforming diverse domains The book blends theory and practice to serve as a roadmap to help readers understand how these cutting edge technologies are revolutionizing practices across various fields By providing a mix of theoretical insights and practical implementations the book offers a holistic understanding of advanced AI and data science applications Highlights of the book include Metaheuristic optimization techniques for solving complex AI model training challenges The impact of AI and data science on urban development Implementing AI for enhanced cybersecurity in industrial control systems A comparative study of traditional and AI based methods for English speech recognition Temporal dependency modeling in real time data streams using a deep learning model Predictive analytics for financial fraud detection and risk management Data science in manufacturing for cost reduction and efficiency AI driven agricultural analytics Featuring such advanced modeling techniques as predictive modeling simulation and optimization algorithms the book presents innovative solutions that emphasize benefits and practicality With its emphasis on interdisciplinary applications it showcases successful projects that underscore the synergy between AI and data science domains empowering readers to harness the power of innovation for enhanced problem solving and efficiency in interdisciplinary realms Sustainable Production through Advanced Manufacturing, Intelligent Automation and Work Integrated Learning Joel Andersson,Shrikant Joshi,Lennart Malmsköld,2024-05-15 Collaboration between those working in product development and production is essential for successful product realization The Swedish Production Academy SPA was founded in 2006 with the aim of driving and developing production research and higher education in Sweden and increasing national cooperation in research and education within the area of production This book presents the proceedings of SPS2024 the 11th Swedish Production Symposium held from 23 to 26 April 2024 in Trollhättan Sweden The conference provided a platform for SPA members as well as for professionals from industry and academia interested in production research and education from around the world to share insights and ideas The title and overarching theme of SPS2024 was Sustainable Production through Advanced Manufacturing Intelligent Automation and Work Integrated Learning and the conference emphasized stakeholder value the societal role of industry worker wellbeing and environmental sustainability in alignment with the European Commission's vision for the future of manufacturing The 59 papers included here were accepted for publication and presentation at the symposium after a thorough review process They are divided into 6 sections reflecting the thematic areas of the conference which were sustainable manufacturing smart production and automation digitalization for efficient product realization circular production industrial transformation for sustainability and the integration of education and research Highlighting the latest developments and advances in automation and sustainable production the book will be of interest to all those

working in the field **Blended Learning. Sustainable and Flexible Smart Learning** Will W. K. Ma, Simon S. K. Cheung, Chen Li, Praewpran Prayadsab, Anan Mungwattana, 2025-07-25 This book constitutes the refereed proceedings of the 18th International Conference on Blended Learning ICBL 2025 held in Bangkok Thailand during July 22 25 2025 The 24 full papers included in this book were carefully reviewed and selected from 60 submissions They were organized in topical sections as follows Keynotes AI and Robotics in Education Innovative Teaching Methods in Blended Learning Pedagogical Strategies and Student Engagement Evaluation and Feedback in Blended Learning Data Driven Learning Analytics and Context Aware Systems *Text-book of Advanced Machine Work* Robert Henry Smith, 1915 **The Prentice Hall Guide to Expert Systems** Robert A. Edmunds, 1988 A non technical discussion aimed at the business user **The Architect** , 1884 *Proceedings* American Society for Engineering Education. Conference, 1992 *Bulletin* Northwestern University (Evanston, Ill.), 1911 *Idaho Bulletin of Education* Idaho. State Board of Education, 1920 **Graduate Catalog** , 1969 Describes the purpose of the university admission requirements classes and class descriptions tuition and fees buildings and grounds and faculty *Advanced Bee-culture* William Z. Hutchinson, 1918 **Rural Californian** , 1891 **Electric Waves** Heinrich Hertz, 1893 *Annual Circular of the Illinois Industrial University* University of Illinois (Urbana-Champaign campus), 1904 **Boiler Maker and Sheet Metal Worker** , 1900 **Report of the Board of Managers of the New York State Reformatory** New York State Reformatory (Elmira, N.Y.), 1894 *Accounting Principles and Procedure: Advanced accounting, 1949* Charles Heinrichs Langer, 1934 **Written evidence** Great Britain. Parliament. House of Lords. Science and Technology Committee, 1984 **Datamation** , 1982 *Digital Rendering for Fashion and Costume* Lalon Alexander, Theresa Alexander, 2026-02-26 Digital Rendering for Fashion and Costume is the most up to date text on fashion illustration and costume rendering across several of the most popular platforms in the fashion industry

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