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Beyond Code Daniel Plate, James Hutson, 2025-09-02 AI powered coding tools are revolutionizing software development transforming programming from a specialized skill into an accessible educational practice across disciplines This book investigates how tools such as Cursor AI GitHub Copilot and Replit s Ghostwriter are dismantling traditional barriers to entry for learners particularly those from non STEM backgrounds by enabling natural language code generation intelligent debugging and interactive project based learning Bridging the gap between theoretical instruction and practical application the book serves as both a guide and a critical framework for integrating generative AI into curricula It highlights how these tools expand the boundaries of programming education by supporting interdisciplinary applications from literary analysis to creative writing thereby making coding relevant and actionable for students in the humanities and beyond The book equips educators with the tools and strategies necessary to incorporate AI assisted programming into diverse academic contexts by offering lesson plans and adaptable project models This resource is essential for instructors seeking to demystify coding promote inclusivity in technical learning and reimagine the role of software literacy in the twenty first century classroom

AI in Agriculture for Sustainable and Economic Management Sirisha Potluri, Suneeta Satpathy, Santi Swarup Basa, Antonio Zuorro, 2024-08-01 This book explains the best practices and their respective outcomes in artificial intelligence AI to meet sustainable development goals and demands It examines the practices technologies and innovations at the core of various research issues to meet the sustainable development demands in agriculture to balance social economic and environmental sustainability with AI AI in Agriculture for Sustainable and Economic Management discusses AI driven nanotechnology approaches for precision agriculture and solutions for the optimization of farming resources and their management The authors examine the impact of AI in agriculture and how technology driven sustainable farming with smart waste water treatment for zero waste for the circular economy can extend crop shelf life It discusses how AI expertise can be advantageous to envisage and evaluate the increasing demands of productivity and to help to maintain ecosystems and strengthen the capacity for crop adaptation in response to drastic changes in climate and weather natural disasters and other significant factors These findings and practices are also useful to emphasize how an agricultural ecosystem can be advanced and industrialized so that it can aid not only large commercial farms but also smaller farmlands Finally it also discusses how AI practices will help to find a balance between the volume of food manufactured and the proper maintenance of the ecosystem This book is intended for researchers and upper graduate students interested in artificial intelligence in agricultural engineering AI advances in crop science and technology for sustainable development *Generative Systems and Intelligent Tutoring Systems* Sabine Graf, Angelos Markos, 2025-07-28 This book constitutes the refereed proceedings of the 21st International Conference on Intelligent Tutoring Systems ITS 2025 held in Alexandroupolis Greece during June 2 6 2025 The 21 full papers 27 short papers and 5 posters included in this book were carefully reviewed and selected from 67

submissions The papers are organized in the following topical conference tracks

Part I Generative Tutoring Systems The goal of this part is to show how new techniques inspired by artificial intelligence AI and new methods in education can improve learning teaching and generate the capacity for knowledge acquisition and much more

Part II Application areas environments and techniques for AI systems This part shows the progress of research investigating the different application areas such as education health techniques such as neural networks data mining natural language processing and environments such as games virtual reality cognitive robots for effective AI systems

Emotions in Code - The AI Frontier of Sentiment Analysis, 2025-10-15 What happens when machines start to understand maybe even feel our emotions Emotions in Code The AI Frontier of Sentiment Analysis explores the fascinating intersection of artificial intelligence and human emotions As algorithms become more sophisticated they are learning not just to process data but to in effect read between the lines interpreting tone mimicking affect and reacting to our moods in real time In a world increasingly shaped by AI grasping how these systems interpret sentiment is not just useful it is vital The call for emotional intelligence in our technologies echoes louder than ever Addressing this urgent need the book provides A layered exploration of sentiment analysis from paradoxical challenges to emerging empathy algorithms A look at the machine learning methods behind emotional recognition in language voice and behavior Case studies and insights from across the globe spanning media healthcare finance and more Reflections on the ethical stakes of emotional AI what it means for trust communication and the human experience Blending technical depth with real world relevance this book caters to researchers developers and anyone curious about how machines are becoming smarter at reading us and what that means for the future

Empowering Digital Education with ChatGPT Mohamed Lahby, 2024-11-12 Recently there has been a significant increase in the development and interest in applying generative AI across various domains including education The emergence of large language models LLMs such as the ChatGPT tool fueled by advancements in generative AI is profoundly reshaping education The use of the ChatGPT tool offers personalized support improves accessibility and introduces innovative methods for students and educators to engage with information and learning materials Furthermore ChatGPT facilitates a wide range of language learning services including language instruction speech recognition pronunciation feedback and immersive virtual simulations for hands on learning experiences This book explores the transformative potential of the ChatGPT tool within education shedding light on the opportunities that arise through the integration of the ChatGPT tool into various aspects of the learning process It serves as a platform for the community to share cutting edge research ideas concerning the use of the ChatGPT tool in digital education Readers will discover how the ChatGPT tool can enhance student engagement foster personalized learning experiences facilitate intelligent tutoring systems support virtual classroom interactions and revolutionize assessment and feedback mechanisms

Human Factors, Business Management and Society Vesa Salminen, 2025-07-26 Proceedings of the 16th International Conference on Applied Human Factors and Ergonomics and the Affiliated Conferences Orlando Florida USA 26

30 July 2025 Artificial Intelligence in HCI Helmut Degen, Stavroula Ntoa, 2025-06-30 The four volume set LNAI 15819 15822 constitutes the thoroughly refereed proceedings of the 6th International Conference on Artificial Intelligence in HCI AI HCI 2025 held as part of the 27th International Conference HCI International 2025 which took place in Gothenburg Sweden June 22 17 2025 The total of 1430 papers and 355 posters included in the HCII 2025 proceedings was carefully reviewed and selected from 7972 submissions The papers have been organized in topical sections as follows Part I Trust and Explainability in Human AI Interaction User Perceptions Acceptance and Engagement with AI UX and Socio Technical Considerations in AI Part II Bias Mitigation and Ethics in AI Systems Human AI Collaboration and Teaming Chatbots and AI Driven Conversational Agents AI in Language Processing and Communication Part III Generative AI in HCI Human LLM Interactions and UX Considerations Everyday AI Enhancing Culture Well Being and Urban Living Part IV AI Driven Creativity Applications and Challenges AI in Industry Automation and Robotics Human Centered AI and Machine Learning Technologies *Artificial Intelligence and Human Performance in Transportation* Dimitrios Ziakkas, Anastasios Plioutsias, 2024-10-30 Artificial Intelligence AI is a major technological advancement in the 21st century With its influence spreading to all aspects of our lives and the engineering sector establishing well defined objectives is crucial for successfully integrating AI in the field of transportation This book presents different ways of adopting emerging technologies in transportation operations including security safety online training and autonomous vehicle operations on land sea and air This guide is a dynamic resource for senior management and decision makers with essential practical advice distilled from the expertise of specialists in the field It addresses the most critical issues facing transportation service providers in adopting AI and investigates the relationship between the human operator and the technology to navigate what is and is not feasible or impossible Case studies of actual implementation provide context to common scenarios in the transportation sector This book will serve the reader as the starting point for practical questions regarding the deployment and safety assurance of new and emergent technologies in the transportation domains Artificial Intelligence and Human Performance in Transportation is a beneficial read for professionals in the fields of Human Factors Engineering Aviation Maritime and Land Logistics Manufacturing Accident Investigation and Safety Cybersecurity and Human Resources Software Maintenance - A Management Perspective Phaneendra Nath Vellanky, 2007-10-23 Computer systems play an important role in our society Software drives those systems Massive investments of time and resources are made in developing and implementing these systems Maintenance is inevitable It is hard and costly Considerable resources are required to keep the systems active and dependable We cannot maintain software unless maintainability characters are built into the products and processes There is an urgent need to reinforce software development practices based on quality and reliability principles Though maintenance is a mini development lifecycle it has its own problems Maintenance issues need corresponding tools and techniques to address them Software professionals are key players in maintenance While development is an art and science maintenance is a craft We

need to develop maintenance personnel to master this craft Technology impact is very high in systems world today We can no longer conduct business in the way we did before That calls for reengineering systems and software Even reengineered software needs maintenance soon after its implementation We have to take business knowledge procedures and data into the newly reengineered world Software maintenance people can play an important role in this migration process Software technology is moving into global and distributed networking environments Client server systems and object orientation are on their way Massively parallel processing systems and networking resources are changing database services into corporate data warehouses Software engineering environments rapid application development tools are changing the way we used to develop and maintain software Software maintenance is moving from code maintenance to design maintenance even onto specification maintenance Modifications today are made at specification level regenerating the software components testing and integrating them with the system Eventually software maintenance has to manage the evolution and evolutionary characteristics of software systems Software professionals have to maintain not only the software but the momentum of change in systems and software In this study we observe various issues tools and techniques and the emerging trends in software technology with particular reference to maintenance We are not searching for specific solutions We are identifying issues and finding ways to manage them live with them and control their negative impact

AI Magazine ,1993 PC AI ,1998 AI Systems in Government Conference ,1989 **Power** ,1923 **AI Expert** ,1987 **Implementing Japanese AI Techniques** Richard Tabor Greene,1990 **The Paper and Printing Trades Journal** ,1883 **Yearly Proceedings of A.I. & S.E.E.** Association of Iron and Steel Electrical Engineers (U.S.),1932 *Annual AI Systems in Government Conference* ,1989 *Western City* ,1951 **Native American Report** ,2002

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