

A futuristic, blue-toned graphic with the text "AI OVERVIEW" centered. The background features a dark, metallic structure with glowing blue lights and a large, stylized white wave-like shape on the left. The overall aesthetic is high-tech and digital.

AI

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Readings in Artificial Intelligence and Databases John Mylopoulos, Michael L. Brodie, 2014-06-28 The interaction of database and AI technologies is crucial to such applications as data mining active databases and knowledge based expert systems This volume collects the primary readings on the interactions actual and potential between these two fields The editors have chosen articles to balance significant early research and the best and most comprehensive articles from the 1980s An in depth introduction discusses basic research motivations giving a survey of the history concepts and terminology of the interaction Major themes approaches and results open issues and future directions are all discussed including the results of a major survey conducted by the editors of current work in industry and research labs Thirteen sections follow each with a short introduction Topics examined include semantic data models with emphasis on conceptual modeling techniques for databases and information systems and the integration of data model concepts in high level data languages definition and maintenance of integrity constraints in databases and knowledge bases natural language front ends object oriented database management systems implementation issues such as concurrency control and error recovery and representation of time and knowledge incompleteness from the viewpoints of databases logic programming and AI

Introduction to Generative AI, Second Edition Numa Dhamani, 2026-01-13 Get up to speed quickly with generative AI AI tools like ChatGPT and Gemini automated coding tools like Cursor and Copilot and countless LLM powered agents have become a part of daily life They ve also spawned a storm of misinformation hype and doomsaying that makes it tough to understand exactly what Generative AI actually is and what it can really do Introduction to Generative AI Second Edition delivers a clearly written survey of generative AI fundamentals along with the techniques and strategies you need to use AI safely and effectively In this easy to read introduction you ll learn How large language models LLMs work How to apply AI across personal and professional work The social legal and policy landscape around generative AI Emerging trends like reasoning models and vibe coding Introduction to Generative AI Second Edition guides you from your first eye opening interaction with tools like ChatGPT to how AI tools can transform your personal and professional life safely and responsibly This second edition has been completely revised to reflect the latest developments in the field from the latest innovations in prompt engineering and AI agents to fresh coverage of multimodal training reasoning models no code tools retrieval augmented generation RAG and more About the book Introduction to Generative AI Second Edition is an up to date guide to the capabilities risks and limitations of tools like ChatGPT Gemini and Claude This easy to follow guide moves quickly through the basics giving you the skills and understanding to use AI with confidence Along the way you ll explore how AI is impacting even established industries with an expert level look at global investment in AI AI education policy AI s economic impact and the ongoing legal and ethical issues of AI usage About the reader For anyone interested in generative AI No technical experience required About the author Numa Dhamani is a natural language processing expert working at the

intersection of technology and society Maggie Engler is an engineer and researcher currently working on safety for large language models

Teaching Information Seeking Jon Ostenson, 2025-05-30 Teaching Information Seeking redefines how we approach research and information literacy in today's information rich world inviting teachers to re imagine teaching research The book combines insights from fields such as library and information sciences journalism and media literacy to offer fresh strategies and perspectives for guiding students through evolving landscapes of information While a focus on concepts and skills has long been important in teaching research this book integrates significant new understandings about the role dispositions play in how well students embrace and utilize skill based knowledge The book provides conceptual knowledge and learning activities that support writing teachers as they help students learn throughout the research or inquiry process of asking questions finding information and sharing their learning purposefully and ethically Chapters with a pedagogical focus and approach include activities informed by the author's decades of experience teaching writing These activities are described in depth including assignment prompts sample work and scripts for think aloud protocols and discussions the author has led that engage students in deeper learning around these critical skills and dispositions Teaching Information Seeking serves as a comprehensive guide for educators looking to foster meaningful information literacy and critical thinking skills in their students This book is ideal for teachers and teacher educators who want to equip students with the skills and dispositions needed for effective research and information literacy Readers will find teacher friendly research grounded insights and activities that can be readily applied in the classroom

Managing Innovation Joe Tidd, John R. Bessant, 2024-11-05 The new edition of the bestselling textbook on Innovation Management provides a strong knowledge base and a creative and entrepreneurial management mindset Acclaimed for its practical evidence based tools and resources *Managing Innovation* provides the knowledge base required to manage innovation technology and new product development With an integrated process approach this classic textbook helps students understand and develop the unique skill set required to manage innovation and innovation processes in the commercial public and social sectors Fully updated with new data new methods and new approaches the eighth edition of *Managing Innovation* emphasizes real world application over abstract theory Numerous practical and experience tested processes models and tools help students develop a productive innovation management mindset accompanied by a wealth of case studies and examples illustrating that successful innovation management is much more than managing a single aspect such as creativity entrepreneurship or product development Offering a strong empirical approach that is supportive of tailored experimentation *Managing Innovation Integrating Technological Market and Organizational Change Eighth Edition* is the perfect textbook for MBA MSc and final year undergraduate management and engineering courses on innovation and a must have resource for professional training courses seminars and workshops New to this Edition Updated chapters on digital innovation business model innovation open innovation user innovation social and sustainable innovation service and crowdsourcing Enhanced presentation of material

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Introduction to Information Systems R. Kelly Rainer,Brad Prince,Cristobal Sanchez-Rodriguez,Ingrid Spletstoesser-Hogeterp,2025-12-22 As digital transformation reshapes the business landscape today s students need to understand how information systems drive organizational success across all industries Introduction to Information Systems 7th Canadian Edition delivers this essential knowledge through rich Canadian content global perspectives and active learning approaches that prepare students for real world challenges This comprehensive text demonstrates how IT serves as the backbone of modern organizations whether students are pursuing careers in accounting finance marketing human resources operations management or MIS Students explore how information systems enable companies to increase profitability enhance customer service streamline operations and create competitive advantage in today s data driven economy Indigenous perspectives highlight the unique characteristics of Indigenous businesses and their use of technology enriching students understanding of diverse approaches to organizational success

Human Factors and Design Yuri Spirochkin,2023-02-27 This book describes various manifestations of human factors when interacting with potentially dangerous technical systems airplanes launch vehicles and spaceships nuclear power plants energy saturated ground vehicles and infrastructure facilities The idea of the book arose from the desire to find a common ground between industries that are important for safety Their similarity lies in addition to the technological advancement of products and solutions in equally high safety requirements in particular taking into account the influence of human factor Thus it is of relevance to analyze an impact of human factor in the context of safety The matter is rather complex on the one hand humans manage technical systems on the other hand human errors negligence or evil intentions can turn the system into a threat with disastrous consequences However human interaction with any technical system begins earlier in the design stage In this stage designer being creator of the system must ensure a safe operation and take into consideration possible risks including those caused by human factors itself The book is interdisciplinary in nature and intended mainly for designers of technical systems aiming to assist the specialists in understanding the issues of human participation in life cycle of these systems The examples given are intended to benefit from experiences of not one but a number of industries

An Overview of Artificial Intelligence and Robotics: Artificial intelligence. pt. A. The core ingredients. pt. B. Fundamental application areas. pt. C. Basic AI topics William B. Gevarter,1983

Advances in Computational Intelligence. MICAI 2025 International Workshops Lourdes Martínez-Villaseñor,Roberto A. Vázquez,Gilberto Ochoa-Ruiz,Martín Montes Rivera,Saúl Zapotecas-Martínez,María Lucía Barrón-Estrada,Efrén Mezura-Montes,Arturo Gomez

Chavez,2026-02-19 This book constitutes the proceedings of several workshops which were held in conjunction with the MICAI 2025 International Workshops on Advances in Computational Intelligence MICAI 2025 held in Guanajuato Mexico during November 3 7 2025 The 59 revised full papers presented in this book were carefully reviewed and selected from 85 submissions The first part contains 33 papers from the 18th workshop of Hybrid Intelligent Systems HIS 2025 and the first workshop on Evolutionary Computation and Swarm Intelligence ECSI 2025 The second volume contains 26 papers from the 18th Workshop on Intelligent Learning Environments WILE 2025 the 7th Workshop on New Trends in Computational Intelligence and Applications CIAPP 2025 and the first workshop on Challenges in Holistic AI for Real world Applications and Learning Systems CHARAL 2025 *An Overview of Artificial Intelligence and Robotics. Volume I - Artificial Intelligence. Part C - Basic AI Topics* United States. National Aeronautics and Space Administration,William B. Gevarter,1983 **Leading Digital Transformation** Einar Iveroth,Jan Lindvall,Johan Magnusson,2025-11-21 Leading Digital Transformation Management Governance and Control explores how digital transformation is reshaping governance control and management across organizations and society It examines the effects of digitalization on strategy structure and systems while offering historical context and addressing key areas such as AI digital platforms sustainability leadership risk regulation and ethics Uncovering the hidden forces driving digitalization this book highlights the positive potential for digital technologies to guide and govern organizations toward a better society In combining analytical depth with thematic breadth the authors capture the complexity of digital transformation while also addressing practical implications for governance strategy and control Comprehensive and accessible this book serves as an indispensable guide for those seeking to understand the challenges and opportunities of digital transformation This is an ideal book for students and practitioners in the areas of digital transformation innovation organizational change corporate governance and leadership **Advanced Topics in Artificial Intelligence** Vladimír Mařík,Olga Štěpánková,Robert Trappl,1992 This volume contains the texts of 26 lectures and contributions to the program of the International Summer School on Advanced Topics in Artificial Intelligence held in Prague Czechoslovakia July 6 17 1992 The summerschool was intended for postgraduate students researchers and all those who want to learn about recent progress in both theoretical and applied AI The papers in the volume are organized into nine parts Introduction Logic and logic programming Machine learning Planning and scheduling Uncertainty Second generation expert systemsand knowledge engineering Qualitative reasoning Neurocomputing Natural language and interfaces PUBLISHER S WEBSITE **Preparing Pre-Service Teachers to Integrate Technology in K-12 Classrooms: Standards and Best Practices** Webb, C. Lorraine,Lindner, Amanda L.,2022-06-30 With the evolving technologies available to educators and the increased importance of including technologies in the classroom it is critical for instructors to understand how to successfully utilize these emerging technologies within their curriculum To ensure they are prepared further study on the best practices and challenges of implementation is required Preparing Pre Service Teachers to Integrate Technology in K 12 Classrooms

Standards and Best Practices focuses on preparing future teachers to integrate technology into their everyday teaching by providing a compilation of current research surrounding the inclusion and utilization of technology as an educational tool. Covering key topics such as digital assessment, flipped classrooms, technology integration, and artificial intelligence, this reference work is ideal for teacher educators, administrators, stakeholders, researchers, academicians, scholars, practitioners, instructors, and students. *Artificial Intelligence in Medical Imaging* Erik R. Ranschaert, Sergey Morozov, Paul R.

Algra, 2019-01-29 This book provides a thorough overview of the ongoing evolution in the application of artificial intelligence (AI) within healthcare and radiology, enabling readers to gain a deeper insight into the technological background of AI and the impacts of new and emerging technologies on medical imaging. After an introduction on game changers in radiology such as deep learning technology, the technological evolution of AI in computing science and medical image computing is described with explanation of basic principles and the types and subtypes of AI. Subsequent sections address the use of imaging biomarkers, the development and validation of AI applications, and various aspects and issues relating to the growing role of big data in radiology. Diverse real-life clinical applications of AI are then outlined for different body parts, demonstrating their ability to add value to daily radiology practices. The concluding section focuses on the impact of AI on radiology and the implications for radiologists, for example with respect to training. Written by radiologists and IT professionals, the book will be of high value for radiologists, medical clinical physicists, IT specialists, and imaging informatics professionals. *Artificial Intelligence Suitability. Assessment of Manufacturing-Execution-System Functions* Yasin Sengöz, 2020-09-01 Master's Thesis from the year 2020 in the subject Computer Sciences, Artificial Intelligence, grade 2.0. Jnkping International Business School, School of Engineering, course Final Project Work in Production Systems, language English, abstract. The thesis work introduces an assessment framework consisting of decisive criteria and related indicators which describe qualitatively the suitability of AI for MES functions based on three criteria with related indicators. In addition, the researcher displays furthermore how the developed assessment framework can be used in order to assess the MES functions regarding their AI readiness. In order to cope with the findings through the thesis work, an inductive research approach has been applied. Existing literature in the fields of intelligent manufacturing, Manufacturing Execution Systems, machine learning, deep learning, intelligent manufacturing, digital twin, and assessment methodologies have been extensively studied in order to base the theoretical developed framework on grounded theory. A case study was carried out in order to test the validity and reliability of the developed assessment framework for industry. The outcome of this thesis work was an assessment framework consisting of decisive criteria and related indicators when evaluating a MES function in respect to its AI suitability. Furthermore, an assessment checklist has been provided for the industry in order to be able to assess a MES function regarding AI support in a quick and pragmatic manner. To generate a more generalizable assessment framework, criteria and indicators have to be adapted. Likewise, testing the outcome of analogue and digital assessment methodologies will provide material for

future studies Artificial Intelligence arises in the manufacturing field very rapidly Implementing Artificial Intelligence AI solutions and algorithms in the manufacturing environment is a well known research field in academia On the other hand Manufacturing Execution System MES providers do not have a theoretical and pragmatic framework regarding the evaluation of MES functions in respect to their suitability for Artificial Intelligence In order to be able to pre evaluate whether a MES function shall be AI supported an intense literature research has been conducted Academia shows few investigations regarding this field of research Recent studies have been concerning about possible applications for MES functions in combination with AI However there is a lack of research in terms of pre evaluating a MES function before embedding the function with AI support since the development of AI solutions for MES functions without pre evaluating those bears a waste of valuable resources

An Analysis of the Application of AI to the Development of Intelligent Aids for Flight Crew Tasks Sheldon Baron,1985 **An introduction to Greek and Latin etymology** John Peile,1872 *Introduction to Artificial Intelligence Techniques* Chin-Liang Chang,1985 An introduction to artificial intelligence knowledge representation languages and Prolog **Introduction to Political Science** James Wilford Garner,1910 Presents a collection of experiments exploring the properties of heat [The Introduction to Hegel's Philosophy of Fine Art](#) Georg Wilhelm Friedrich Hegel,1886 **Introduction to the Literature of Europe** Henry Hallam,1879

Whispering the Secrets of Language: An Mental Quest through **Ai Overview Ideas**

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