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Integrated Formal Methods Nikolai Kosmatov,Laura Kovács,2024-11-12 This volume LNCS constitutes the refereed proceedings of the 19th International Conference on Integrated Formal Methods IFM 2024 during 13 15 November 2024 held in Manchester UK The 19 full papers presented in this volume were carefully reviewed and selected from 58 submissions The conference focuses on all aspects of the design of integrated techniques including language design verification and validation automated tool support and the use of such techniques in software engineering practice

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Machine Learning and Knowledge Extraction Andreas Holzinger,Peter Kieseberg,A Min Tjoa,Edgar Weippl,2019-08-22 This book constitutes the refereed proceedings of the IFIP TC 5 TC 12 WG 8 4 8 9 12 9 International Cross Domain Conference for Machine Learning and Knowledge Extraction CD MAKE 2019 held in Canterbury UK in August 2019 The 25

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Artificial Intelligence-Empowered Bio-medical Applications Dimitrios P. Panagoulias, George A. Tsihrintzis, Maria Virvou, 2025-07-19 The book delves into advancements in personalized medicine highlighting the transition from generalized treatments to tailored strategies through AI and machine learning It first emphasizes the role of biomarkers in training predictive models and neural networks enhancing disease diagnosis and patient management It then explores AI driven healthcare systems particularly the use of microservices to improve scalability and management Additionally it examines regulatory challenges the need for AI explainability and the PINXEL framework which defines explainability requirements using the technology acceptance model TAM and the diffusion of innovation theory DOI Furthermore the book evaluates the capabilities of large language models including ChatGPT and GPT 4V in medical applications with a focus on diagnosis and structured assessments in general pathology Lastly it introduces an AI powered system for primary care diagnosis that integrates language models machine learning and rule based systems The interactive AI assistants Med Primary AI assistant and Dermacen Analytica leverage natural language processing image analysis and multi modal AI to enhance patient interactions and provide healthcare professionals with high accuracy personalized diagnostic support By taking a holistic

approach the book underscores the integration of AI into healthcare aiming to support medical professionals in patient diagnosis and management with precision and adaptability **Scientific and Technical Aerospace Reports** ,1989

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Artificial Intelligence Stuart Jonathan Russell,Peter Norvig,Ernest Davis,2010 Artificial intelligence A Modern Approach 3e is ideal for one or two semester undergraduate or graduate level courses in Artificial Intelligence It is also a valuable resource for computer professionals linguists and cognitive scientists interested in artificial intelligence The revision of this best selling text offers the most comprehensive up to date introduction to the theory and practice of artificial intelligence

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