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(Eds.)

# Artificial Intelligence Applications and Innovations

AIAI 2020 IFIP WG 12.5  
International Workshops

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# Artificial Intelligence Applications Innovations International

**Mounir El Khatib, Haitham M.  
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## **Artificial Intelligence Applications Innovations International:**

**Artificial Intelligence Applications and Innovations. AIAI 2021 IFIP WG 12.5 International Workshops** Ilias Maglogiannis, John Macintyre, Lazaros Iliadis, 2021-06-26 This book constitutes the refereed proceedings of six International Workshops held as parallel events of the 17th IFIP WG 12.5 International Conference on Artificial Intelligence Applications and Innovations AIAI 2021 virtually and in Hersonissos Crete Greece in June 2021 the 6th Workshop on 5G Putting Intelligence to the Network Edge 5G PINE 2021 Artificial Intelligence in Biomedical Engineering and Informatics Workshop AI BIO 2021 Workshop on Defense Applications of AI DAAI 2021 Distributed AI for Resource Constrained Platforms Workshop DARE 2021 Energy Efficiency and Artificial Intelligence Workshop EEAI 2021 and the 10th Mining Humanistic Data Workshop MHDW 2021 The 24 full papers and 16 short papers presented at these workshops were carefully reviewed and selected from 72 submissions The papers presented at 5G PINE focus on the latest AI applications in the telecommunication industry and AI in modern 5G oriented telecommunications infrastructures The papers chosen for AI BIO 2021 present research on the subject of AI in its broadest sense in biomedical engineering and health informatics The DAAI 2021 papers aim at presenting recent evolutions in artificial intelligence applicable to defense and security applications The papers selected for DARE 2021 address a variety of pertinent and challenging topics within the scope of distributed AI for resource constrained platforms The papers presented at EEAI 2021 aim to bring together interdisciplinary approaches that focus on the application of AI driven solutions for increasing and improving energy efficiency of residential and tertiary buildings and of occupant behavior The MHDW papers focus on topics such as recommendation systems sentiment analysis pattern recognition data mining and time series

**Artificial Intelligence Applications and Innovations. AIAI 2022 IFIP WG 12.5 International Workshops** Ilias Maglogiannis, Lazaros Iliadis, John Macintyre, Paulo Cortez, 2022-06-16 This book constitutes the refereed proceedings of five International Workshops held as parallel events of the 18th IFIP WG 12.5 International Conference on Artificial Intelligence Applications and Innovations AIAI 2022 virtually and in Hersonissos Crete Greece in June 2022 the 11th Mining Humanistic Data Workshop MHDW 2022 the 7th 5G Putting Intelligence to the Network Edge Workshop 5G PINE 2022 the 1st workshop on AI in Energy Building and Micro Grids AIBMG 2022 the 1st Workshop Special Session on Machine Learning and Big Data in Health Care ML HC 2022 and the 2nd Workshop on Artificial Intelligence in Biomedical Engineering and Informatics AIBEI 2022 The 35 full papers presented at these workshops were carefully reviewed and selected from 74 submissions

**Artificial Intelligence Applications and Innovations. AIAI 2023 IFIP WG 12.5 International Workshops** Ilias Maglogiannis, Lazaros Iliadis, Antonios Papaleonidas, Ioannis Chochliouros, 2023-06-01 This book constitutes the refereed proceedings of four International Workshops held as parallel events of the 19th IFIP WG 12.5 International Conference on Artificial Intelligence Applications and Innovations AIAI 2023 held in Le n Spain during June 14 17 2023 the 12th Workshop on Mining Humanistic Data MHDW 2023 the 8th Workshop on

5G Putting Intelligence to the Network Edge 5G PINE 2023 the second Workshop on AI in Energy Buildings and Micro Grids Workshop BMG 2023 and the First Workshop on Visual Analytics Approaches for Complex Problems in Engineering and Biomedicine VAA CP EB 2023 This event was held in hybrid mode The 37 regular papers presented at these workshops were carefully reviewed and selected from 86 submissions Artificial Intelligence Applications and Innovations. AIAI 2025 IFIP WG 12.5 International Workshops Antonios Papaleonidas, Elias Pimenidis, Harris Papadopoulos, Ioannis Chochliouros, 2025-06-24 This 2 volume set constitutes the refereed proceedings of International Workshops held as parallel events of the 21st IFIP WG 12.5 International Conference on Artificial Intelligence Applications and Innovations AIAI 2025 held in Limassol Cyprus during June 26-29 2025 The 44 full papers and 6 short papers presented in these proceedings were carefully reviewed and selected from 117 submissions The AIAI 2025 conference hosts several workshops that support innovative research on various specific and hot scientific domains every year These satellite events offer a deep insight into both rapid advances and timely creative applications of AI *Artificial Intelligence Applications and Innovations* John MacIntyre, Ilias Maglogiannis, Lazaros Iliadis, Elias Pimenidis, 2019-05-15 This book constitutes the refereed proceedings of two International Workshops held as parallel events of the 15th IFIP WG 12.5 International Conference on Artificial Intelligence Applications and Innovations AIAI 2019 in Hersonissos Crete Greece in May 2019 the 8th Mining Humanistic Data Workshop MHDW 2019 and the 4th Workshop on 5G Putting Intelligence to the Network Edge 5G PINE 2019 The 6 full papers and 4 short papers presented at MHDW 2019 were carefully reviewed and selected from 13 submissions out of the 14 papers submitted to 5G PINE 2019 6 were accepted as full papers and 1 as short paper The MHDW papers focus on the application of innovative as well as existing data matching fusion and mining and knowledge discovery and management techniques such as decision rules decision trees association rules ontologies and alignments clustering filtering learning classifier systems neural networks support vector machines preprocessing post processing feature selection visualization techniques to data derived from all areas of humanistic sciences e.g. linguistic historical behavioral psychological artistic musical educational social and ubiquitous computing and bioinformatics The papers presented at 5G PINE focus on several innovative findings coming directly from modern European research in the area of modern 5G telecommunications infrastructures and related innovative services and cover a wide variety of technical and business aspects promoting options for growth and development *Artificial Intelligence Applications and Innovations. AIAI 2024 IFIP WG 12.5 International Workshops* Ilias Maglogiannis, Lazaros Iliadis, Ioannis Karydis, Antonios Papaleonidas, Ioannis Chochliouros, 2024-06-22 This book constitutes the refereed proceedings of three International Workshops held as parallel events of the IFIP WG 12.5 International Workshops on Artificial Intelligence Applications and Innovations AIAI 2024 held in Corfu Greece during June 27-30 2024 The 30 full papers and 4 short papers presented in this book were carefully reviewed and selected from 69 submissions AIAI 2024 Workshop volume presents papers from the following three workshops 13th event of the International

Mining Humanistic Data Workshop MHDW 2024 9th 5G PINE Workshop 5G PINE 2024 1st Workshop on AI Applications for Achieving the Green Deal Targets 4GD 2024      Artificial Intelligence Applications and Innovations Ilias Maglogiannis, Lazaros Iliadis, John MacIntyre, Manuel Dominguez, 2023-05-31 This two volume set of IFIP AICT 675 and 676 constitutes the refereed proceedings of the 19th IFIP WG 12.5 International Conference on Artificial Intelligence Applications and Innovations AIAI 2023 held in Le n Spain during June 14-17 2023. This event was held in hybrid mode. The 75 regular papers and 17 short papers presented in this two volume set were carefully reviewed and selected from 185 submissions. The papers cover the following topics: Deep Learning, Reinforcement, Recurrent, Gradient Boosting, Adversarial Agents, Case Based Reasoning, Sentiment Analysis, Biomedical Image Analysis, CNN, Convolutional Neural Networks, YOLO, CNN, Cyber Security, Anomaly Detection, Explainable AI, Social Impact of AI, Graph Neural Networks, Constraint Programming, IoT, Fuzzy Modeling, Augmented Reality, LEARNING, Active AutoEncoders, Federated Machine Learning, Natural Language Optimization, Genetic Programming, Robotics, Spiking NN and Text Mining, Transfer Learning      **Artificial Intelligence Applications and Innovations** Lazaros S. Iliadis, Ilias Maglogiannis, Harris Papadopoulos, 2011-09-15 The two volume set IFIP AICT 363 and 364 constitutes the refereed proceedings of the 12th International Conference on Engineering Applications of Neural Networks EANN 2011 and the 7th IFIP WG 12.5 International Conference AIAI 2011 held jointly in Corfu, Greece in September 2011. The 52 revised full papers and 28 revised short papers presented together with 31 workshop papers were carefully reviewed and selected from 150 submissions. The second volume includes the papers that were accepted for presentation at the AIAI 2011 conference. They are organized in topical sections on: computer vision and robotics; classification; pattern recognition; financial and management applications of AI; fuzzy systems; learning and novel algorithms; recurrent and radial basis function ANN; machine learning; generic algorithms; data mining; reinforcement learning; Web applications of ANN; medical applications of ANN; and ethics of AI and environmental and earth applications of AI. The volume also contains the accepted papers from the First Workshop on Computational Intelligence in Software Engineering CISE 2011 and the Workshop on Artificial Intelligence Applications in Biomedicine AIAB 2011      **Artificial Intelligence Applications and Innovations** Harris Papadopoulos, Andreas S. Andreou, Max Bramer, 2010-10-02 The abundance of information and increase in computing power currently enable researchers to tackle highly complicated and challenging computational problems. Solutions to such problems are now feasible using advances and innovations from the area of Artificial Intelligence. The general focus of the AIAI conference is to provide insights on how Artificial Intelligence may be applied in real world situations and serve the study, analysis and modeling of theoretical and practical issues. This volume contains papers selected for presentation at the 6th IFIP Conference on Artificial Intelligence Applications and Innovations AIAI 2010 and held in Larnaca, Cyprus during October 6-7 2010. IFIP AIAI 2010 was co-organized by the University of Cyprus and the Cyprus University of Technology and was sponsored by the Cyprus University of Technology, Frederick University.

and the Cyprus Tourism Organization AIAI 2010 is the official conference of the WG12.5 Artificial Intelligence Applications working group of IFIP TC12 the International Federation for Information Processing Technical Committee on Artificial Intelligence AI AIAI is a conference that grows in significance every year attracting researchers from different countries around the globe It maintains high quality standards and welcomes research papers describing technical advances and engineering and industrial applications of intelligent systems AIAI 2010 was not confined to introducing how AI may be applied in real life situations but also included innovative methods techniques tools and ideas of AI expressed at the algorithmic or systemic level *Artificial Intelligence Applications and Innovations* Lazaros Iliadis, Ilias Maglogiannis, Harris

Papadopoulos, Spyros Sioutas, Christos Makris, 2014-09-15 This book constitutes the refereed proceedings of four AIAI 2014 workshops co located with the 10th IFIP WG 12.5 International Conference on Artificial Intelligence Applications and Innovations AIAI 2014 held in Rhodes Greece in September 2014 the Third Workshop on Intelligent Innovative Ways for Video to Video Communications in Modern Smart Cities IIVC 2014 the Third Workshop on Mining Humanistic Data MHDW 2014 the Third Workshop on Conformal Prediction and Its Applications CoPA 2014 and the First Workshop on New Methods and Tools for Big Data MT4BD 2014 The 36 revised full papers presented were carefully reviewed and selected from numerous submissions They cover a large range of topics in basic AI research approaches and applications in real world scenarios Proceedings of Tenth International Congress on Information and Communication Technology Xin-She

Yang, Simon Sherratt, Nilanjan Dey, Amit Joshi, 2025-11-01 This book gathers selected high quality research papers presented at the Tenth International Congress on Information and Communication Technology ICICT 2025 held in London on February 18-21, 2025 It discusses emerging topics pertaining to information and communication technology ICT for managerial applications e governance e agriculture e education and computing technologies the Internet of Things IoT and e mining Written by respected experts and researchers working on ICT the book offers an asset for young researchers involved in advanced studies The book is presented in ten volumes **Innovative Approaches for International Competitiveness**

**Through Human Resource Management** Pawirosumarto, Suharno, 2025-05-09 In an era of global interconnectedness and competition organizations utilize innovative approaches to human resource management HRM to remain competitive Effective HRM strategies include cross cultural management global workforce optimization and the integration of technology in employee development By embracing diversity fostering a culture of continuous learning and leveraging data driven insights businesses can cultivate a workforce that is adaptable to the needs of global markets Strategic HRM practices such as flexible work models employee empowerment and leadership development programs empower organizations to respond to market shifts quickly and maintain a competitive edge across borders In this context innovative HRM approaches are a tool for operational efficiency and long term international success *Innovative Approaches for International Competitiveness Through Human Resource Management* explores contemporary challenges and strategies in human resource management

HRM within a global context It examines digital transformation competency development cultural dynamics and best practices in HRM across different countries This book covers topics such as global business automation and talent acquisition and is a useful resource for business owners managers computer engineers educators academicians researchers and data scientists      **Artificial Intelligence Applications to Smart City and Smart Enterprise** Donato

Impedovo,Giuseppe Pirlo,2020-11-23 Smart cities operate under more resource efficient management and economy than ordinary cities As such advanced business models have emerged around smart cities which led to the creation of smart enterprises and organizations that depend on advanced technologies This book includes 21 selected and peer reviewed articles contributed in the wide spectrum of artificial intelligence applications to smart cities Chapters refer to the following areas of interest vehicular traffic prediction social big data analysis smart city management driving and routing localization safety health and life quality      **Technological Innovation and AI for Sustainable Development in Events and Festivals** Anukrati Sharma,Jeetesh Kumar,Shruti Arora,2025-05-30

From sustainable event planning to the influence of VR AI and mobile applications on tourist behaviour this book explores the dynamic landscape where innovation meets tradition It studies the intersection of green technologies sustainable infrastructure and the delicate balance between cutting edge tools and the intrinsic emotional aspects of human engagement Aligned with the United Nations 17 Sustainable Development Goals the book highlights AI s potential to drive meaningful contributions to a sustainable future It anticipates the imminent transformation of festivals and events through technological innovation and AI implementation It will allow the reader to gain insights into how automation streamlines logistics optimizes marketing efforts and enhances the overall attendee experience

**Handbook of Artificial Intelligence Applications for Industrial Sustainability** Vikas Garg,Richa Goel,Pooja Tiwari,Esra S. Döngül,2024-01-30 The subject of Artificial Intelligence AI is continuing on its journey of affecting each and every individual and will keep on this path in the times to come This handbook is a collection of topics on the application of artificial intelligence applications for sustainability in different areas It provides an insight into the various uses of concepts and practical examples for different domains all in one place which makes it unique and important for the potential reader Handbook of Artificial Intelligence Applications for Industrial Sustainability Concepts and Practical Examples examines the influence of AI and how it can be used in several industries to improve corporate performance reduce security concerns improve customer experience and ultimately generate value for customers and maximize profits The handbook offers practical examples concepts and applications that provide an easy understanding and implementation process It provides AI applications in many fields such as sustainable credit decisions cyber security and fraud prevention warehouse management and much more This handbook will provide insight to customers managers professionals engineers researchers and students on the various uses of AI and sustainability in different domains All of this needed information compiled into one handbook makes it unique and important for the engineering business and computer science communities      **Innovative Computing**

**and Communications** Aboul Ella Hassanien, Sameer Anand, Ajay Jaiswal, Prabhat Kumar, 2024-10-14 This book includes high quality research papers presented at the Seventh International Conference on Innovative Computing and Communication ICICC 2024 which is held at the Shaheed Sukhdev College of Business Studies University of Delhi Delhi India on 16 17 February 2024 Introducing the innovative works of scientists professors research scholars students and industrial experts in the field of computing and communication the book promotes the transformation of fundamental research into institutional and industrialized research and the conversion of applied exploration into real time applications

**Data Processing and Networking** Abhishek Swaroop, Bal Virdee, Sérgio Duarte Correia, Jan Valicek, 2025-10-02 This book includes selected papers presented at the International Conference on Data Processing and Networking ICDPN 2024 organized by the Institute of Technology and Business in esk Bud jovice Near Prague Czech Republic during October 25 26 2024 It covers up to date cutting edge research on big data processing and analytics data mining and machine learning artificial intelligence and deep learning wireless mobile and ad hoc networks network security and privacy Internet of things IoT and sensor networks data communication and computer vision and image processing

**Revolutionizing the AI-Digital Landscape** Alex Khang, Pushan Kumar Dutta, Sachin Gupta, Nishu Ayedee, Sandeep Chatterjee, 2024-06-07 This book investigates the growing influence of artificial intelligence in the marketing sphere providing insights into how AI can be harnessed for developing more effective and efficient marketing strategies In addition the book offers a comprehensive overview of the various digital marketing tools available to entrepreneurs discussing their features benefits and potential drawbacks This helps entrepreneurs make well informed decisions when selecting the tools most suited to their needs and objectives It is designed to help entrepreneurs develop and implement successful strategies leveraging the latest tools and technologies to achieve their business goals As the digital landscape continues to evolve rapidly this book serves as a valuable resource for entrepreneurs looking to stay ahead of the curve and capitalize on new opportunities The book s scope encompasses many topics including customer experience content marketing AI strategy and digital marketing tools

**Sustainable Innovation for Engineering Management (SIEM)** Mounir El Khatib, Haitham M. Alzoubi, Yordanka Angelova, 2025-11-02 This book dives into topics like renewable energy adoption how AI and IoT can create smarter systems and the transition toward more sustainable infrastructures The SIEM book offers an in depth look at how sustainable innovation is transforming engineering management providing readers with practical insights and strategies It focuses on advanced technologies data driven approaches and circular economy concepts aiming to tackle the key challenges that today s engineers and managers are facing With a focus on the circular economy it explores how engineering leaders can integrate sustainability into their processes to achieve both efficiency and growth Practical examples and real world cases are also included showing how companies around the world are balancing innovation with environmental goals In an era where businesses are under pressure to reduce their environmental impact while staying competitive this book gives actionable tools and strategies for



achieving both From big data applications in decision making to AI powered solutions Sustainable Innovation for Engineering Management SIEM equips readers with the knowledge they need to succeed in this evolving field Designed for professionals academics and students this book creates a bridge between theory and real world practices Whether you are working to solve current industry problems or looking to inspire sustainable change within your organization this book is a valuable resource for driving innovation and fostering sustainability together Proceedings of the International Conference on Innovation and Regenerative Trends in Tourism and Hospitality Industry (IRTTHI 2024) Manish Sharma,Ajit Kumar Singh,Pankaj Tyagi,2024-06-13 This is an open access book The 1st International Conference on the theme Innovation and Regenerative Trends in Tourism and Hospitality Industry under the umbrella of SRISHTI will be held on the 14th 15th and 16th March 2024 bringing together corporate professionals academicians and innovators This conference encourages academician engagement and networking by sharing ideas research and practical insights Innovation and regenerative trends drive the conference s exploration of sustainable practices and transformational tourism and hospitality initiatives The Tracks with multiple fields have already been shared separately not limited to in the brochure template Along with this renowned keynote speakers industry professionals and academicians will discuss tourism and hospitality s contemporary issues and potential The conference promotes knowledge sharing and creative problem solving to solve current difficulties and create a more sustainable and regenerative tourism and hospitality business It fosters research and innovation that meets the demands of a globalized and conscious travel and hospitality community

Artificial Intelligence Applications Innovations International: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous compelling novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the captivating narratives that have enthralled audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Artificial Intelligence Applications Innovations International : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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