

wolfram technology conference 2023

wolfram technology conference 2023 represented a landmark event in the realm of computational technology and advanced software solutions. This conference brought together experts, developers, researchers, and enthusiasts from around the globe to explore the latest innovations in Wolfram's ecosystem, including Mathematica, Wolfram Language, Wolfram Alpha, and cloud computing technologies. The 2023 edition emphasized cutting-edge developments, real-world applications, and educational initiatives designed to empower professionals across industries. Attendees experienced in-depth sessions, hands-on workshops, and keynote presentations from leading figures in computational science. This article provides a comprehensive overview of the Wolfram Technology Conference 2023, detailing its key themes, major announcements, session highlights, and opportunities for networking and professional growth. Below is a structured guide to the main topics covered in this article.

- Overview of Wolfram Technology Conference 2023
- Keynote Speakers and Major Announcements
- Innovations in Wolfram Language and Mathematica
- Workshops and Hands-On Sessions
- Industry Applications and Use Cases
- Networking and Community Engagement
- Future Directions and Closing Remarks

Overview of Wolfram Technology Conference 2023

The Wolfram Technology Conference 2023 served as a pivotal gathering for the global community engaged with Wolfram's suite of computational tools. Hosted both in-person and virtually, the conference aimed to foster collaboration and knowledge sharing among scientists, engineers, educators, and developers. The event showcased the latest software updates, research breakthroughs, and practical applications of Wolfram technologies. With a diverse program spanning multiple days, the conference facilitated deep dives into technical innovations as well as broader discussions on the future of computation. Attendees benefited from robust networking opportunities and access to expert insights, positioning the conference as a critical platform for advancing computational technology.

Keynote Speakers and Major Announcements

The keynote sessions at the Wolfram Technology Conference 2023 featured prominent figures from both Wolfram Research and the broader scientific community. These presentations highlighted strategic directions, new product releases, and groundbreaking research enabled by Wolfram technologies. Notably, the conference unveiled enhancements to Wolfram Language, including expanded machine learning capabilities and improved cloud integration. Additionally, keynote speakers addressed the role of computational tools in accelerating scientific discovery and education. These announcements underscored Wolfram's commitment to innovation and providing users with powerful, scalable solutions.

Highlights from the Keynote Presentations

Keynote speeches covered a range of topics, such as:

- The integration of AI and symbolic computation in Wolfram Language
- Advancements in Wolfram Cloud infrastructure for seamless deployment
- New educational resources and programs to support STEM learning
- Collaborative projects leveraging Wolfram technology in industry and academia
- Future roadmap for expanding computational knowledge engines

Innovations in Wolfram Language and Mathematica

Central to the Wolfram Technology Conference 2023 was a focus on the evolution of Wolfram Language and Mathematica. These core technologies continue to drive computational innovation through enhanced functionality, user experience improvements, and expanded libraries. The conference sessions detailed updates that improved performance, introduced new data science tools, and extended visualization capabilities. Participants gained insights into how these innovations can streamline complex workflows and enable more sophisticated computational modeling.

New Features and Enhancements

Among the most significant innovations discussed were:

- Expanded neural network framework for deep learning integration
- Enhanced symbolic computation algorithms for faster problem-solving

- Improved interoperability with external APIs and data sources
- Augmented natural language understanding within Wolfram Alpha
- Customizable user interfaces and notebook enhancements

Workshops and Hands-On Sessions

The conference offered an extensive lineup of workshops and hands-on sessions designed to provide practical experience with Wolfram technologies. These interactive events catered to a range of skill levels, from beginners to advanced users. Attendees had the opportunity to work directly with Wolfram experts, gaining proficiency in coding, data analysis, and application development. The workshops emphasized real-world problem-solving and the application of computational tools to diverse domains such as finance, biology, and engineering.

Popular Workshop Topics

- Getting started with Wolfram Language: fundamentals and best practices
- Machine learning model creation and deployment using Wolfram tools
- Data visualization techniques for complex datasets
- Building interactive applications with Wolfram Cloud
- Leveraging Wolfram Alpha for data-driven decision making

Industry Applications and Use Cases

The Wolfram Technology Conference 2023 highlighted numerous industry applications, demonstrating the versatility of Wolfram technologies across sectors. Case studies presented during the event illustrated how organizations leverage computational tools to optimize workflows, enhance research, and innovate products. Industries featured included finance, healthcare, aerospace, education, and environmental science. These sessions showcased the practical benefits of integrating Wolfram technology into business and research environments.

Examples of Use Cases

- Financial modeling and predictive analytics in investment management

- Computational biology and genomics research acceleration
- Simulation and design in aerospace engineering projects
- Education platforms utilizing Wolfram tools for interactive learning
- Environmental data analysis for climate change studies

Networking and Community Engagement

Community engagement was a key component of the Wolfram Technology Conference 2023, fostering connections among users, developers, and researchers. The conference provided multiple forums for networking, including discussion panels, social events, and collaborative projects. These interactions facilitated knowledge exchange and built lasting professional relationships within the Wolfram ecosystem. Additionally, the conference recognized contributions from community members through awards and spotlight sessions.

Opportunities for Attendees

- Participating in roundtable discussions with Wolfram experts
- Joining user group meetings to share best practices
- Engaging in collaborative coding challenges and hackathons
- Accessing mentorship and support resources for professional development
- Celebrating achievements through community awards and recognition

Future Directions and Closing Remarks

Looking beyond the Wolfram Technology Conference 2023, the event emphasized the ongoing evolution of computational tools and their expanding impact on science and industry. Discussions highlighted future initiatives aimed at enhancing accessibility, scalability, and integration capabilities. The conference closed with a call to action for the global Wolfram community to continue innovating and collaborating. This spirit of progress ensures that Wolfram technologies will remain at the forefront of computational advancement, driving transformative outcomes worldwide.

Frequently Asked Questions

What is the Wolfram Technology Conference 2023?

The Wolfram Technology Conference 2023 is an annual event organized by Wolfram Research that showcases the latest advancements in Wolfram technologies, including Wolfram Language, Mathematica, Wolfram Alpha, and Wolfram Cloud.

When and where was the Wolfram Technology Conference 2023 held?

The Wolfram Technology Conference 2023 was held from October 16 to October 19, 2023, at the Hilton Austin in Austin, Texas.

What were some key highlights of the Wolfram Technology Conference 2023?

Key highlights included the unveiling of new features in Wolfram Language, workshops on AI integration, sessions on computational science applications, and networking opportunities with experts and developers.

Who should attend the Wolfram Technology Conference 2023?

The conference is ideal for researchers, educators, data scientists, developers, and enthusiasts interested in computational technology, Wolfram products, and innovations in AI and data science.

Are there any notable speakers or sessions from the Wolfram Technology Conference 2023?

Notable speakers included Stephen Wolfram, founder of Wolfram Research, along with industry experts presenting on topics such as symbolic computation, AI-powered tools, and computational education.

How can I access the materials or recordings from the Wolfram Technology Conference 2023?

Materials and session recordings from the conference are available to registered attendees through the Wolfram website, and some content may be accessible publicly on the Wolfram YouTube channel and official blog.

Additional Resources

1. *Exploring Wolfram Technology Conference 2023: Innovations and Insights*

This book provides a comprehensive overview of the key presentations and breakthroughs unveiled at the Wolfram Technology Conference 2023. It covers new features in Wolfram Language, advancements in computational technology, and highlights from expert talks. Readers will gain a deep understanding of how Wolfram technologies are evolving and impacting various fields.

2. *Mastering Wolfram Language: Techniques from the 2023 Conference*

Focused on practical applications, this book compiles advanced coding techniques and programming tips shared during the 2023 conference. It includes detailed examples and case studies to help users harness the full power of Wolfram Language. Ideal for developers looking to enhance their skills with cutting-edge methods.

3. *Data Science and AI with Wolfram: Insights from the 2023 Conference*

This title explores the latest developments in data science and artificial intelligence presented at the conference. It discusses new Wolfram tools designed for machine learning, data analysis, and AI model deployment. The book is a valuable resource for data scientists eager to integrate Wolfram technology into their workflows.

4. *Computational Mathematics: Advances from Wolfram Technology Conference 2023*

Delving into mathematical innovations, this book highlights new algorithms and computational techniques introduced at the event. It covers symbolic computation, numerical methods, and their applications in solving complex problems. Mathematicians and researchers will find it a valuable guide to state-of-the-art computational tools.

5. *Wolfram Cloud and Deployment Strategies: Lessons from 2023*

This book focuses on cloud computing advancements and deployment best practices shared during the conference. It explains how to leverage Wolfram Cloud for scalable applications, collaboration, and real-time data processing. Developers and IT professionals will benefit from practical advice on integrating Wolfram technology into cloud environments.

6. *Visualizations and Interactive Applications in Wolfram Language: 2023 Insights*

Highlighting the conference's focus on visualization, this book showcases innovative ways to create interactive graphics and dynamic content. It covers new features that enhance user engagement and data presentation. Designers, educators, and developers will find inspiration for creating compelling visual tools.

7. *Wolfram Education and Research: Trends from the 2023 Conference*

This title examines the role of Wolfram technology in education and scientific research as discussed at the conference. It includes case studies on how educators and researchers are using Wolfram tools to transform learning and discovery. The book offers guidance on integrating computational thinking into academic programs.

8. *Next-Generation Computational Interfaces: Highlights from Wolfram 2023*

Focusing on user interface design and interaction paradigms, this book covers the next generation of computational interfaces introduced at the conference. It discusses voice, gesture, and natural language integration with Wolfram technology. Readers will discover future trends shaping how users interact with computational systems.

9. *Wolfram Technology Conference 2023: A Developer's Companion*

Designed as a practical guide, this book compiles essential resources, tutorials, and tips from the 2023 conference aimed at developers. It helps readers quickly implement new features and optimize their Wolfram Language projects. Perfect for both beginners and experienced programmers seeking to stay up-to-date with Wolfram's ecosystem.

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wolfram technology conference 2023: ICTR 2023 6th International Conference on Tourism Research Dr Eirini Vlassi , Dr Despina Konstantinides , 2023-06-08

wolfram technology conference 2023: Artificial Intelligence in Education Technologies: New Development and Innovative Practices Tim Schlippe, Eric C. K. Cheng, Tianchong Wang, 2024-12-31 This book is a collection of selected research papers presented at the 2024 5th International Conference on Artificial Intelligence in Education Technology (AIET 2024), held in Barcelona, Spain, on July 29 - 31, 2024. AIET establishes a platform for AI in education researchers to present research, exchange innovative ideas, propose new models, as well as demonstrate advanced methodologies and novel systems. It is a timely and up-to-date publication responsive to the rapid development of AI technologies, practices and their increasingly complex interplay with the education domain. It promotes the cross-fertilisation of knowledge and ideas from researchers in various fields to construct the interdisciplinary research area of AI in Education. These subject areas include computer science, cognitive science, education, learning sciences, educational technology,

psychology, philosophy, sociology, anthropology and linguistics. The feature of this book will contribute from diverse perspectives to form a dynamic picture of AI in Education. It also includes various domain-specific areas for which AI and other education technology systems have been designed or used in an attempt to address challenges and transform educational practice. Education stands as a cornerstone for societal progress, and ensuring universal access to quality education is integral to achieving Goal 4 of the United Nations' Sustainable Development Goals (SDGs). The goal is to ensure inclusive and equitable quality education for all by 2030. This involves not only expanding access to education but also improving the quality of education to promote lifelong learning opportunities. AI has the potential to significantly contribute to the achievement of Goal 4. It is committed to exploring how AI may play a role in bringing more innovative practices, transforming education, and triggering an exponential leap towards the achievement of the Education 2030 Agenda. Providing broad coverage of recent technology-driven advances and addressing a number of learning-centric themes, the book is an informative and useful resource for researchers, practitioners, education leaders and policy-makers who are involved or interested in AI and education.

wolfram technology conference 2023: International Conference on Reliable Systems Engineering (ICoRSE) - 2023 Daniela Doina Cioboată, 2023-09-04 This book comprises state-of-the-art research results in the field of mechatronics and other closely related areas and that will be presented on occasion of the third "International Conference of Reliable Systems Engineering (ICoRSE 2023)" that will take place in Bucharest, Romania, between 07-08 September 2023. The first two ICoRSE editions brought together professors, Ph.D. students, and researchers in Europe, North America, and Asia, in countries such as: England, Albania, Austria, Bulgaria, Canada, Czech Republic, Germany, France, Italy, Portugal, Turkey, Ukraine, Uzbekistan, and Vietnam. In this year's edition of the conference, we have benefitted from the inclusion in the scientific committee of the conference of professors in all of these countries, and we cover a wide variety of topics, such as: theoretical and applied mechanics; cyber-physical systems, robotics, smart bio-medical and bio-mechatronic systems, new and intelligent materials and structures, modelling and simulation in mechanics and mechatronics, smart mechatronic production and control system, optics, control systems, big data modelling, micro- and nanotechnology, automation, manufacturing optimization, and other. Since the book's chapters represent contributions of scholars who work in both state-funded institutions and in the business environment, they reflect a clear picture of the novelties attained in the leading-edge sciences that are in the scope of the conference. It is our belief that the book is useful to both students and researchers in all areas of engineering, who will each find at least one topic worthy of their interest in this work.

wolfram technology conference 2023: The Second International Adaptive and Sustainable Science, Engineering and Technology Conference Sunday Cookey Ekpo, 2024-04-24 This proceedings presents papers from the Second International Adaptive and Sustainable Science, Engineering and Technology Conference (ASSET 2023), which took place simultaneously in Manchester, UK and Ikot Akpaden, Nigeria on 18-20, July 2023. The ASSET conference serves as an interactive forum for the advancement of the practice of adaptive and sustainable systems across the multiple disciplines and specialty areas involved with the science, engineering, and technology of integrated entities, complex systems, and networks. The conference provides an avenue for practitioners, researchers, managers, developers, analysts, educators, and users to exchange innovative ideas, concepts, applications, and lessons learned in addressing domain-specific problems, applications-oriented topics, methodologies, standards and multidisciplinary research opportunities and findings relating to ASSET systems.

wolfram technology conference 2023: New Technology in Education and Training Jon-Chao Hong, 2024-08-14 This book presents the selected papers of the 5th International Conference on Advance in Education and Information Technology (AEIT 2024), which was held in Nagoya, Japan, 2024 January 5-7. With a worldwide increase in technology-enhanced learning in school and industry settings, there has been a progressive increase in the implementation of new

technology in education and training. Issues surrounding teaching approaches, classroom management, and the evaluation of learning effectiveness are now considered of global concern. Topics and technical areas covered include but are not limited to: Online/Virtual Laboratories, Classroom and Laboratory Integration, Managed Learning Environments (MLEs), Learning Management Systems (LMS), Collaborative Virtual Environments (CVEs), and Experiences in Educational/Serious Games. This book serves as a useful reference for early career scholars, academics, entrepreneurs and professionals who are working in the field of implementing new technology in education and training.

wolfram technology conference 2023: *CONVR 2023 - Proceedings of the 23rd International Conference on Construction Applications of Virtual Reality* Pietro Capone, Vito Getuli , Farzad Pour Rahimian, Nashwan Dawood , Alessandro Bruttini, Tommaso Sorbi, 2023 Within the overarching theme of “Managing the Digital Transformation of Construction Industry” the 23rd International Conference on Construction Applications of Virtual Reality (CONVR 2023) presented 123 high-quality contributions on the topics of: Virtual and Augmented Reality (VR/AR), Building Information Modeling (BIM), Simulation and Automation, Computer Vision, Data Science, Artificial Intelligence, Linked Data, Semantic Web, Blockchain, Digital Twins, Health & Safety and Construction site management, Green buildings, Occupant-centric design and operation, Internet of Everything. The editors trust that this publication can stimulate and inspire academics, scholars and industry experts in the field, driving innovation, growth and global collaboration among researchers and stakeholders.

wolfram technology conference 2023: *Handbook of Systems Engineering and Analysis of Electro-Optical and Infrared Systems* William Wolfgang Arrasmith, 2025-06-30 There has been a lot of innovation in systems engineering and some fundamental advances in the fields of optics, imaging, lasers, and photonics that warrant attention. This volume focuses on concepts, principles, and methods of systems engineering-related topics from government, industrial, and academic settings such as development and operations (DevOps), agile methods, and the concept of the “digital twin.” *Handbook of Systems Engineering and Analysis of Electro-Optical and Infrared Systems: Concepts, Principles, and Methods* offers more information on decision and risk analysis and statistical methods in systems engineering such as design of experiments (DOX) methods, hypothesis testing, analysis of variance, blocking, 2k factorial analysis, and regression analysis. It includes new material on systems architecture to properly guide the evolving system design and bridge the gap between the requirements generation and design efforts. The integration of recent high-speed atmospheric turbulence research results in the optical technical examples and case studies to illustrate the new developments is also included. A presentation of new optical technical materials on adaptive optics (AO), atmospheric turbulence compensation (ATC), and laser systems along with more are also key updates that are emphasized in the second edition 2-volume set. Because this volume blends modern-day systems engineering methods with detailed optical systems analysis and applies these methodologies to EO/IR systems, this new edition is an excellent text for professionals in STEM disciplines who work with optical or infrared systems. It’s also a great practical reference text for practicing engineers and a solid educational text for graduate-level systems engineering, engineering, science, and technology students. This book is also available as a set *Handbook of Systems Engineering and Analysis of Electro-Optical and Infrared Systems* (978-1-032-22242-4).

wolfram technology conference 2023: *Model-Based Reasoning, Abductive Cognition, Creativity* Emiliano Ippoliti, Lorenzo Magnani, Selene Arfini, 2024-11-20 This book discusses how scientific and other types of cognition make use of models, abduction, and explanatory reasoning in order to produce important, innovative, and possibly creative changes in theories and concepts. Gathering revised contributions presented at the international conference on Model-Based Reasoning (MBR023), held on June 7–9, 2023 in Rome, Italy, the book addresses various intertwined topics ranging from the epistemology and applications of models also concerning the problem of knowledge production and scientific methodology (information visualization, experimental methods,

and design) to the analysis of their role in cognition, decision-making, also with respect to social implications. The problem of model-based cognition is also illustrated taking advantage of recent results regarding problem-solving, abduction, and logic, paying attention to a critique of the dominant and received approaches, to the aim of fostering new discussions and stimulate new ideas. All in all, the book provides researchers and graduate students in the fields of applied philosophy, epistemology, cognitive science, and artificial intelligence alike with an authoritative snapshot of the latest theories and applications of model-based reasoning.

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wolfram technology conference 2023: Intelligent Decision Technologies Ireneusz Czarnowski, R.J. Howlett, Lakhmi C. Jain, 2023-05-29 This book gathers selected papers from the KES-IDT 2023 Conference, held in Rome, Italy, on June 14–16, 2023. The book presents and discusses the latest research results and generates new ideas in the field of intelligent decision-making. The range of topics discussed is classification, prediction, data analysis, big data, data science, decision support, knowledge engineering and modeling in diverse areas such as finance, cybersecurity, economics, health, management and transportation. The problems in industry 4.0 and IoT are also addressed. The book contains several sections devoted to specific topics, such as intelligent data processing and its applications, high-dimensional data analysis and its applications, multi-criteria decision analysis—theory and applications, large-scale systems for intelligent decision-making and knowledge engineering, decision technologies and related topics in big data analysis of social and financial issues and decision-making theory for economics.

wolfram technology conference 2023: Online Laboratories in Engineering and Technology Education Dominik May, Michael E. Auer, Alexander Kist, 2025-01-29 This comprehensive book, divided into seven sections, showcases groundbreaking research findings that blend new experiences from the COVID-19 pandemic with long-term research on online laboratories and virtual experimentation. Providing an adequate learning experience in the laboratory has long been a major challenge in science, engineering, and technology education. Recent years have further revealed the complexities of offering distance or remotely accessible educational settings, particularly for laboratory-based courses. In response, many academic institutions have innovated by transitioning their laboratory classes into online laboratories or providing laboratory kits for at-home use. This unprecedented situation has sparked numerous new developments, approaches, and activities, revolutionizing the field. With contributions from leading researchers and practitioners across diverse disciplines, this book delves into current trends, addresses critical challenges, and uncovers future opportunities for laboratory-based education in the context of online learning. Whether readers are educators seeking innovative teaching strategies, researchers exploring the latest advancements, or academic leaders looking to enhance remote learning experiences, this book provides valuable insights and practical solutions. It explores how online laboratories are transforming education and discovers the potential they hold for the future.

wolfram technology conference 2023: Internet of Things Applications and Technology Faheem Syeed Masoodi, Alwi Bamhdi, Ankush Manocha, Tawseef Ahmed Teli, Zubair Sayeed Masoodi, Faheem Ahmad Reegu, 2024-09-23 The book provides a comprehensive examination of the integration of IoT technology into various industries and its impact on daily life, with a focus on the most recent advancements in the field. The technical aspects of IoT are thoroughly discussed, including the implementation of cutting-edge sensors, data communication protocols, and network topologies. The book also covers the latest advancements in areas such as edge computing, 5G networks, and AI-powered IoT devices. Emphasis is placed on the examination of IoT in real-world

applications, including healthcare, agriculture, transportation, and home automation. Other highlights of the book include: IoT-based systems for monitoring air and water quality Wearable devices for continuous monitoring of vital signs and other health metrics IoT-based systems for monitoring and optimizing crop growth and yields Connected vehicles for improved safety, efficiency, and traffic management Monitoring of goods and resources in transit to optimize delivery times With case studies and real-world examples, readers gain a comprehensive understanding of how IoT is revolutionizing various industries and enhancing daily life. This book is a comprehensive guide to the exciting world of IoT and its practical application.

wolfram technology conference 2023: *Proceedings of the 2nd International Conference on Neural Networks and Machine Learning 2023 (ICNNML 2023)* Ika Hesti Agustin, 2024-06-27 This is an open access book. It is with my great pleasure and honor to announce The 2nd International Conference on Neural Networks and Machine Learning which will be held from 7th – 8th November 2023 in the University of Jember, East Java, Indonesia. The selected paper will be Published in *Advances in Intelligent System Research* by Atlantis Press. It is the second international conference organized by CGANT Research Group, University of Jember.

wolfram technology conference 2023: *Advances in Nonlinear Dynamics, Volume I* Walter Lacarbonara, 2024-05-11 This volume aims to present the latest advancements in experimental, analytical, and numerical methodologies aimed at exploring the nonlinear dynamics of diverse systems across varying length and time scales. It delves into the following topics: Methodologies for nonlinear dynamic analysis (harmonic balance, asymptotic techniques, enhanced time integration) Data-driven dynamics, machine learning techniques Exploration of bifurcations and nonsmooth systems Nonlinear phenomena in mechanical systems and structures Experimental dynamics, system identification, and monitoring techniques Fluid-structure interaction Dynamics of multibody systems Turning processes, rotating systems, and systems with time delays

wolfram technology conference 2023: *Airships* Iver P. Cooper, 2025-05-15 Many people may know about the blazing crash of the Hindenburg in 1937 but are possibly unaware that it had made 62 flights before its final journey (including one transporting author Leslie Charteris, creator of The Saint). The disaster, however, did not end the airship era; blimps escorted convoys during World War II and were a part of air defense systems in the 1950s and 1960s. Airships still fly today, and new models are in the construction phase. This book examines this branch of aviation history, delving into the science and engineering of airships and their design flaws, weather difficulties and operational errors. The chapters focus on function (lift, propulsion, materials, ground handling and so forth). The book concludes with speculations about future airship designs and missions.

wolfram technology conference 2023: *ICGG 2024 - Proceedings of the 21st International Conference on Geometry and Graphics* Kazuki Takenouchi, 2024-09-26 This three-volume book gathers peer-reviewed papers presented at the 21st International Conference on Geometry and Graphics (ICGG 2024), held in Kitakyushu, Japan, from 5 to 9 August 2024. The conference started in 1978 and is promoted by the International Society for Geometry and Graphics, which aims to foster international collaboration and stimulate the scientific research and teaching methodology in the fields of Geometry and Graphics. The ICGG 2024 covered the following five topics taken over from ICGG 2022: Theoretical Graphics and Geometry; Applied Geometry and Graphics; Engineering Computer Graphics; Graphics Education; Geometry and Graphics in History, to which a new section of Related Topics was added in response to the growing body of research on Geometry and Graphics. Volume 3 collects papers on two of these topics, Engineering Computer Graphics and Geometry and Graphics in History, as well as poster papers on all these topics. Given its breadth of coverage, the book will introduce engineers, architects, and designers interested in computer applications, graphics, and geometry to the latest advances in the field, with a particular focus on science, the arts, and mathematics education.

wolfram technology conference 2023: *Proceedings of the 1st International Conference of New Energy* Mahmod Bin Othman, Samsul Ariffin Abdul Karim, Cecilia Devi Wilfred, Kean Chuan Lee, Rajalingam Sokkalingam, 2023-05-20 This book presents peer-reviewed articles from the 1st

International Conference on New Energy (ICNE 2022), held on 1-2 December at Sarawak in Malaysia. This book highlights the current trends/studies on fundamental of hydrogen technologies and the application of hydrogen as the new sustainable renewable energy. Topics included but not limited to are: hydrogen production, its storage and transportation, and hydrogen utilization. This book contributes in making green hydrogen competitive and ready for a scale up in the 2030s, towards the objective of reaching net zero emissions by 2050

wolfram technology conference 2023: AI and Language in the Urban Context Richard Coyne, 2025-04-08 In a world influenced increasingly by artificial intelligence (AI), the city emerges as a dynamic hub of digital conversations. AI and Language in the Urban Context offers a novel exploration of how AI, particularly large language models (LLMs), is transforming urban environments. Moving beyond the typical technological narratives, this book draws on the author's unique expertise in design, semiotics and hermeneutics to present a critical cultural perspective on AI's role in the city. Focusing on the intersection of urban theory and AI, the book reveals how conversational AI is reshaping social interactions, decision-making processes, and media in urban spaces. By merging practical knowledge of AI algorithms with an understanding of urban practices, the author highlights the opportunities and challenges AI presents for modern cities. This book is essential for anyone interested in the future of urban living. It provides a deep dive into the technical, social and cultural implications of AI in cities, offering practical examples and philosophical insights. Readers will gain a comprehensive understanding of how AI is influencing the design, governance and dynamics of urban life in the digital age. The Open Access version of this book, available at www.taylorfrancis.com, has been made available under a Creative Commons [Attribution-Non Commercial-No Derivatives (CC-BY-NC-ND) 4.0 license.

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