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Nota di contenuto	Building Climate Resilience In Urban Infrastructure With Machine Learning Techniques -- Enhancing Healthcare Infrastructure Through Smart Solutions -- Performance Evaluation Of Stored Image Data Sets Retrieval Using Image Attribute Average Technique In Smart Home Environment -- Utilizing Machine Learning Methods To Forecast Passenger Safety In Smart Urban Transportation Systems -- Geographic Information Systems (Gis) And Remote Sensing (Ris) In Urban Planning

Sommario/riassunto

This book commences with an editorial overview, providing a comprehensive introduction to the current landscape and future prospects in engineering and technology. Volume 1 of the International Conference on Innovative Discoveries and Emerging Advancements in Applied Sciences (iDEAAS) 2024 proceedings is a groundbreaking compilation that encapsulates the forefront of engineering and technological innovations. This meticulously curated book serves as a cornerstone for professionals, academics, and students who are navigating the ever-evolving realms of engineering and technology. This sets the tone for a deep dive into a series of specialized topics. In the aerospace and marine technologies section, the book presents pioneering research and studies. It offers insights into the latest advancements in aerospace engineering, delving into the complexities and innovations in aircraft and spacecraft design. Simultaneously, it explores the strides made in marine technologies, highlighting the synergies and technological crossovers between these two critical fields. The infrastructure and environment section addresses one of the most pressing concerns of the 21st century—sustainable development. This section is particularly insightful for its focus on the environmental impact of infrastructure development and the challenges of maintaining ecological balance. Mechatronics and automation is another highlight of this volume, where the fusion of mechanical engineering, electronics, and computing leads to fascinating innovations in automation and system design. This section underscores the importance of interdisciplinary approaches in solving complex engineering problems and enhancing operational efficiency in various industries. In the realm of computing and information technology, the book explores the transformative impact of digital technologies on engineering.. The book culminates with a comprehensive summary that not only synthesizes the key themes discussed but also looks ahead at the future of engineering and technology. It offers a visionary perspective on the emerging trends and potential advancements that are poised to redefine the engineering landscape.
