





Special Issue Reprint

Selected Papers from IEEE ICKII 2019

www.mdpi.com/books/reprint/2521

Edited by Teen-Hang Meen Wenbing Zhao Cheng-Fu Yang

ISBN 978-3-03936-160-1 (Hardback) ISBN 978-3-03936-161-8 (PDF)



This book, entitled "Selected papers from IEEE ICKII 2019", selected 13 excellent papers from the 260 papers presented in the IEEE International Conference on Knowledge Innovation and Invention (IEEE ICKII) 2019 on energies. The 2nd IEEE ICKII 2019 was held in Seoul, South Korea, 12-15 July, 2019, and provided a unified communication platform for research on information technology, innovation design, communication science and engineering, industrial design, creative design, applied mathematics, computer science, electrical and electronic engineering, mechanical and automation engineering, green technology and architecture engineering, material science, and other related fields. The ICKII conference enables interdisciplinary collaboration of science and engineering technologists in the academic and industrial fields, as well as international networking. This book is a collection of 13 research papers. The fields included are as follows: energy fundamentals, energy sources and energy carriers, energy exploration, intermediate and final energy use, energy conversion systems, and energy research and development. The main goals of this book are to encourage scientists to publish their experimental and theoretical results in as much detail as possible, and to discover new scientific knowledge relevant to the topics of energies.





MDPI Books offers quality open access book publishing to promote the exchange of ideas and knowledge in a globalized world. MDPI Books encompasses all the benefits of open access – high availability and visibility, as well as wide and rapid dissemination. With MDPI Books, you can complement the digital version of your work with a high quality printed counterpart.



Open Access

Your scholarly work is accessible worldwide without any restrictions. All authors retain the copyright for their work distributed under the terms of the Creative Commons Attribution License.



Author Focus

Authors and editors profit from MDPI's over two decades of experience in open access publishing, our customized personal support throughout the entire publication process, and competitive processing charges as well as unique contributor discounts on book purchases.



High Quality & Rapid Publication

MDPI ensures a thorough review for all published items and provides a fast publication procedure. State-of-the-art research and time-sensitive topics are released with a minimum amount of delay.



High Visibility

Due to our global network and well-known channel partners, we ensure maximum visibility and broad dissemination. Title information of books is sent to international indexing databases and archives, such as the Directory of Open Access Books (DOAB), and the Verzeichnis Lieferbarer Bücher (VLB).



Print on Demand and Multiple Formats

MDPI Books are available for purchase and to read online at any time. Our print-on-demand service offers a sustainable, cost-effective and fast way to publish MDPI Books printed versions.

MDPI AG Grosspeteranlage 5 4052 Basel Switzerland Tel: +41 61 683 77 34 www.mdpi.com/books books@mdpi.com

