

# The Future of Industrial Engineering: Highlights from the Proceedings of the 7th International Conference on Industrial Engineering (ICIE)



**International Conference of  
Innovation and Entrepreneurship  
ICIE2022**

**A P U**  
ASIA PACIFIC UNIVERSITY  
OF TECHNOLOGY & INNOVATION

**SUSTAINABLE GROWTH BEYOND NEW NORMAL**

**Date: 20<sup>th</sup> July 2022**  
Venue: Asia Pacific University of  
Technology and Innovation  
Kuala Lumpur, Malaysia

**Online Presentations only**

**Important dates:**  
Full Paper Submission: 1<sup>st</sup> July 2022  
Registration: 15<sup>th</sup> June 2022  
Conference Date: 20<sup>th</sup> July 2022

**Publication Opportunity:**  
Selected papers will be published in SCOPUS

External Participants should pay registration and publication fee together (RM 1300) upon the acceptance notification from Journal.  
Registration, submission of Paper must be done electronically through the online submission system. <http://icie.sites.apiit.edu.my/>

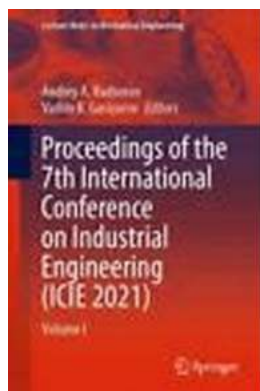
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Industrial Engineering, with its focus on optimizing complex systems and processes, plays a vital role in shaping the future of various industries. The 7th International Conference on Industrial Engineering (ICIE) brought together leading experts, researchers, and practitioners from around the globe to share groundbreaking insights and discoveries in this field.

## Day 1: Opening Keynote and Key Trends

The conference kickstarted with an inspiring keynote by Dr. Catherine Wilson on "Revitalizing Industrial Engineering: Innovations and Collaborations." Dr. Wilson emphasized the need for interdisciplinary partnerships and highlighted the role of digital technologies in transforming industrial processes.



### Proceedings of the 7th International Conference on Industrial Engineering (ICIE 2021): Volume I (Lecture Notes in Mechanical Engineering)

by Andrey A. Radionov (Kindle Edition)

★★★★☆ 4.7 out of 5

Language : English  
File size : 122854 KB  
Text-to-Speech : Enabled  
Screen Reader : Supported  
Enhanced typesetting : Enabled  
Print length : 1605 pages



The subsequent sessions covered key trends in industrial engineering, including lean manufacturing, sustainable operations, supply chain optimization, and human factors engineering. Presentations from Dr. Helen Thompson and Dr. Mark Anderson shed light on the latest advancements in these areas and their potential impact on enhancing productivity and minimizing waste.

## **Day 2: Advanced Decision-Making Strategies**

Day 2 focused on advanced decision-making strategies and their applications in industrial engineering. Dr. Michael Roberts delivered an engaging talk on leveraging machine learning algorithms for predictive maintenance, while Dr. Sarah Collins explored the utilization of data analytics in optimizing production planning.

A panel discussion on "Innovation in Operations Management" sparked great excitement among the attendees, as industry leaders shared their success stories and challenges in implementing cutting-edge technologies such as Internet of Things (IoT) and artificial intelligence.

## **Day 3: Resilient Manufacturing and Supply Chains**

Resilient manufacturing and supply chain management took center stage on the third day of ICIE. Dr. James Harris delivered a thought-provoking presentation on designing agility and flexibility in manufacturing systems, stressing the importance of adaptive capacity in today's dynamic business environment.

Dr. Emily Green discussed the application of blockchain technology in supply chain management, providing insights into its potential to enhance transparency, traceability, and trust among various stakeholders in the supply chain network.

## **Day 4: Human Factors Engineering and Ergonomics**

The final day of the conference delved into human factors engineering and ergonomics. Dr. Christopher Brown presented innovative research on human-robot collaboration in manufacturing, showcasing how intelligent automation can augment human capabilities and improve overall productivity.

Prof. Jennifer Adams highlighted the necessity of ergonomic design in reducing workplace injuries and enhancing employee well-being. She emphasized the role of user-centered design principles in creating work environments that promote safety, efficiency, and comfort.

## **Key Takeaways and Future Prospects**

The 7th International Conference on Industrial Engineering (ICIE) served as a dynamic platform for exchanging knowledge and fostering collaboration in the field of industrial engineering. The conference revealed several key takeaways, including:

- The increasing integration of digital technologies and data analytics in industrial processes for enhanced decision-making and operational efficiency.
- The growing emphasis on sustainability and resilience in manufacturing and supply chain management.
- The importance of human factors engineering in creating safe and ergonomic work environments.

Looking ahead, ICIE aims to continue driving innovation in industrial engineering by encouraging research breakthroughs, facilitating networking opportunities, and promoting interdisciplinary collaborations. The 8th ICIE is already being planned, promising exciting developments in this rapidly evolving field.

(Keywords: Proceedings of the 7th International Conference on Industrial Engineering, ICIE 2022, Industrial Engineering conference, industrial engineering trends, future of industrial engineering, sustainable operations, supply chain optimization, human factors engineering, decision-making strategies, resilient manufacturing, supply chain management, ergonomics)



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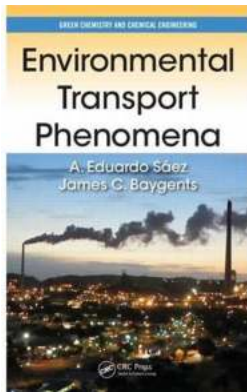
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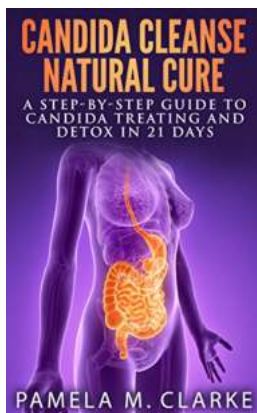


This book highlights recent findings in industrial, manufacturing and mechanical engineering, and provides an overview of the state of the art in these fields, mainly in Russia and Eastern Europe. A broad range of topics and issues in modern engineering is discussed, including the dynamics of machines and working processes, friction, wear and lubrication in machines, surface transport and technological machines, manufacturing engineering of industrial facilities, materials engineering, metallurgy, control systems and their industrial applications, industrial mechatronics, automation and robotics. The book gathers selected papers presented at the 7th International Conference on Industrial Engineering (ICIE), held in Sochi, Russia, in May 2021. The authors are experts in various fields of engineering, and all papers have been carefully reviewed. Given its scope, the book will be of interest to a wide readership, including mechanical and production engineers, lecturers in engineering disciplines, and engineering graduates.



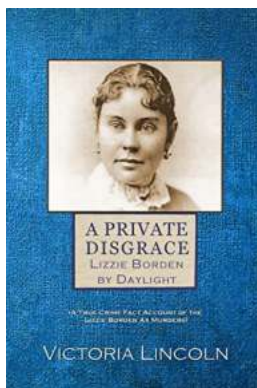
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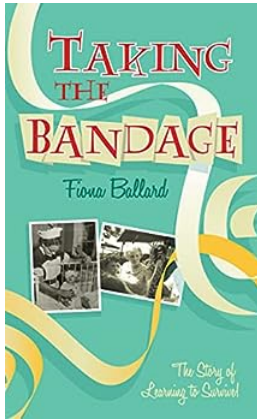
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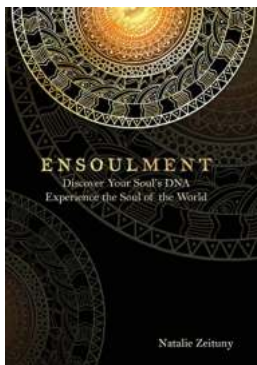
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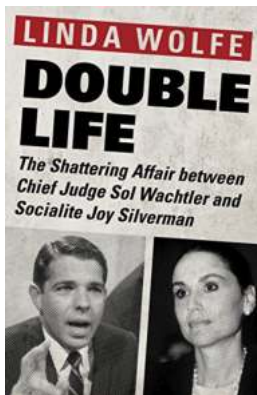
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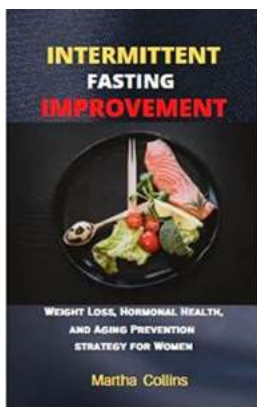
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