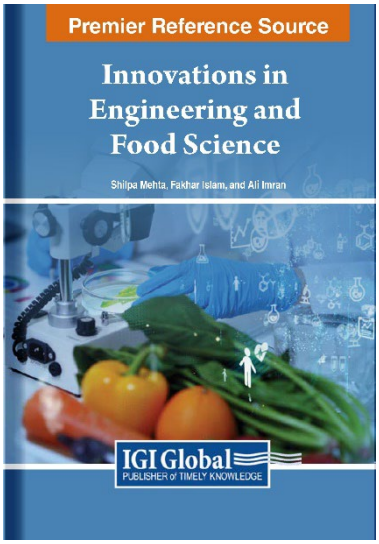
Innovations in Engineering and Food Science



Shilpa Mehta (Auckland University of Technology, New Zealand)
Fakhar Islam (NUR International University, Pakistan)
Ali Imran (Government College University, Pakistan)

Description:

As the global population continues to grow, the depletion of Earth's resources poses a significant challenge in ensuring food security for current and future generations. This book addresses this pressing issue by presenting innovative strategies and methods to reduce food loss, enhance production, identify alternative ingredients, and digitize the food system. It explores topics like the circular economy, cellular agriculture, artificial intelligence in food production, and novel sources of ingredients like microalgae and insects.

Engineers play a pivotal role in translating ideas into tangible products and services that enhance human lives. **Innovations in Engineering and Food Science** is a comprehensive guide that explores the latest advancements, technologies, challenges, and solutions in the domains of engineering and food science. This book delves into the integration of cutting-edge technologies such as Artificial Intelligence (AI), Blockchain, Internet of Things (IoT), Quantum Computing, and Virtual and Augmented Reality, showcasing their potential to revolutionize the engineering landscape. With a focus on emerging technologies and practical solutions, this book serves as a valuable resource for researchers, students, academicians, and professionals in these fields.

ISBN: 9798369308196 **Pages:** 424 **Copyright:** 2024 **Release Date:** 1/17/2024

Hardcover: $265 **Softcover:** $200 **E-Book:** $265 **Hardcover + E-Book:** $320

Topics

- Agriculture Production
- Artificial Intelligence
- Bacterial Pathogens
- Bacteriophages
- Big Data in Engineering
- Biodegradable Nanoclay Packaging Materials
- Blockchain in Engineering
- Brain-Computer Interface
- Cloud Computing
- Computer Vision in Engineering
- Consumer Electronics
- Cybersecurity
- Development of Edible Food Wrappers Ecofriendly
- Digital Twins in Engineering
- Edge Computing in Engineering
- Exoskeletons
- Food Industry
- Food Science and Technology
- Image Processing
- Industry 5.0 and Engineering
- Internet of Things in Engineering
- Nanotechnology
- Plant Photochemical Extraction
- Quantum Computing in Engineering
- Safety of Frozen Products
- Smart Cities and Engineering
- Soft Computing and Computational Intelligence
- Sustainability
- Unmanned Aerial Vehicles
- Utilization of Artificial Intelligence
- Virtual and Augmented Reality
- Voice Technology

Subject: Life Sciences
Readership Level: Advanced-Academic Level (Research Recommended)

Classification: Edited Reference
Research Suitable For: Advanced Undergraduate Students; Graduate Students; Researchers; Academicians; Professionals; Practitioners

Order Information
Phone: 717-533-8845 x100
Toll Free: 1-866-342-6657
Fax: 717-533-8661 or 717-533-7115
www.igi-global.com
Address: 701 East Chocolate Avenue, Hershey PA, 17033, USA

IGI Global Scientific Publishing
Publishing Tomorrow's Research Today