

# Bioethics of Cognitive Ergonomics and Digital Transition

Part of the Advances in Medical Education, Research, and Ethics Book Series

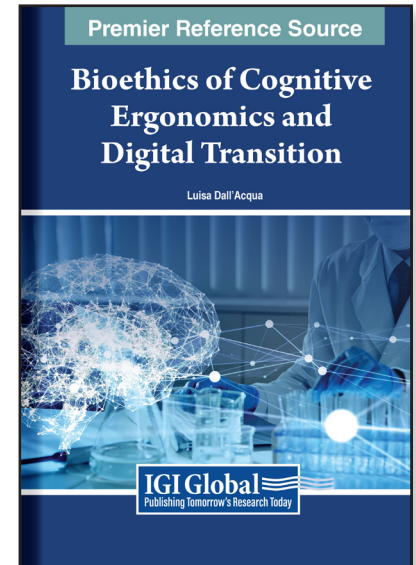
Luisa Dall'Acqua (University of Bologna - U.S.R. (MIM), Italy)

## Description:

Experts are constantly trying to understand the complex relationships between humans and evolving technologies. Cognitive ergonomics, the science behind human-machine interactions, ensures optimal performance and decision-making. Understanding and managing these interactions, especially in medicine and computer tasks, requires an interdisciplinary approach. **Bioethics of Cognitive Ergonomics and Digital Transition** addresses these challenges head-on, offering a comprehensive exploration of cognitive ergonomics and its implications for technology, society, and more.

One of the critical issues addressed in this book is the ethical design and implementation of human-machine interactions, particularly in biomedical research and treatment contexts. As technologies like artificial intelligence (AI) and biotechnology continue to advance, the need for ethical frameworks becomes increasingly critical. This book examines the bioethical perspectives of these interactions, providing readers with insights into how to navigate these complex issues responsibly.

Furthermore, the book explores cutting-edge topics such as genetic engineering, biotechnological applications, medical intelligence, and AI in healthcare. It offers a deep exploration into policy analysis in healthcare, equipping readers with the tools to develop critical judgment and effective risk management strategies. With a focus on advancing clinical decision-making through medical AI, **Bioethics of Cognitive Ergonomics and Digital Transition** is essential for researchers, engineers, computer scientists, healthcare professionals, and policymakers seeking to understand and harness the power of cognitive ergonomics in the digital age.



ISBN: 9798369326671

Pages: 310

Copyright: 2024

Release Date: July, 2024

Hardcover: \$380.00

E-Book: \$380.00

Hardcover +  
E-Book: \$460.00

## Topics Covered:

- BioComputational Intelligence
- Bioethics in Security Sectors
- Biotechnology
- Cognitive Artificial Intelligence
- Cognitive Ergonomics
- Human Information Processing
- Multi-Agent Models in Healthcare System Design
- Risk Management for Security Sectors

**Subject:** Medicine & Healthcare

**Classification:** Edited Reference

**Readership Level:** Advanced-Academic Level  
(Research Recommended)

**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

Online Bookstore: [www.igi-global.com](http://www.igi-global.com)

Mailing Address: 701 East Chocolate Avenue, Hershey, PA 17033, USA