Human-Machine Collaboration and Emotional Intelligence in Industry 5.0

Part of the Advances in Computational Intelligence and Robotics Book Series

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Description:

In the rapidly evolving landscape of Industry 5.0, integrating emotional intelligence into the industrial framework is becoming increasingly crucial. Organizations are trying to navigate this uncharted territory and seeking guidance on understanding, implementing, and ethically managing artificial emotional intelligence (AEI). However, the absence of a comprehensive resource addressing these complexities has left a significant void in academic scholarship and industrial practice.

Human-Machine Collaboration and Emotional Intelligence in Industry 5.0 offers a holistic exploration of emotion recognition, affective computing, and human-robot interaction. It equips readers with the knowledge and tools to successfully integrate AEI into Industry 5.0, ensuring a harmonious collaboration between humans and machines. This book is a go-to resource for scholars, industry professionals, and decision-makers seeking to leverage emotional intelligence in the Fifth Industrial Revolution by addressing practical implementations, ethical considerations, and real-world impacts.

Human-Machine Collaboration and Emotional Intelligence in Industry 5.0 is a transformative guide to a future where machines and humans collaborate in a more empathetic and efficient manner, revolutionizing industries to be more productive and employee-friendly. With a focus on practical solutions and real-world examples, this book is poised to become the authoritative guide on AEI in Industry 5.0, reshaping the future of industrial practices and academic research.

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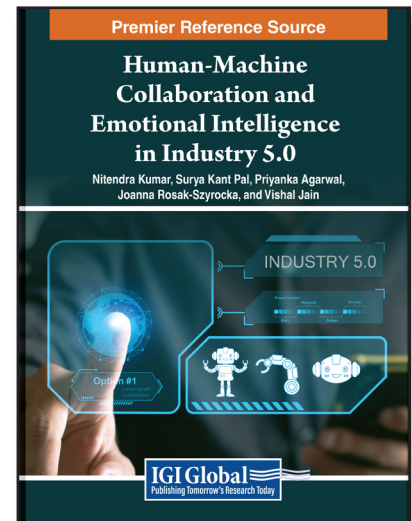
Topics Covered:

- Artificial Emotional Intelligence and Human-Robot Safety
- Artificial Emotional Intelligence and Worker Well-being in Smart Factories
- Artificial Emotional Intelligence for Industry 5.0
- Artificial Emotional Intelligence in Customer Service
- Emotion Recognition in Human-Machine Interaction
- Emotionally Intelligent Decision-Making in Industry 5.0
- Enhancing Human-Robot Collaboration through Emotional Intelligence
- Ethical and Privacy Considerations in Artificial Emotional Intelligence Deployment
- Human-Artificial Emotional Intelligence Collaboration in Industry 5.0
- Human-Centered Design and User Experience in Artificial Emotional Intelligence Systems
- Industry 4.0 to Industry 5.0 Shift Through Emotional Intelligence

Subject: Computer Science & Information Technology

Classification: Edited Reference

Readership Level: Advanced-Academic Level (Research Recommended)

Research Suitable for: Advanced Undergraduate Students; Graduate Students; Researchers; Academicians; Professionals; Practitioners