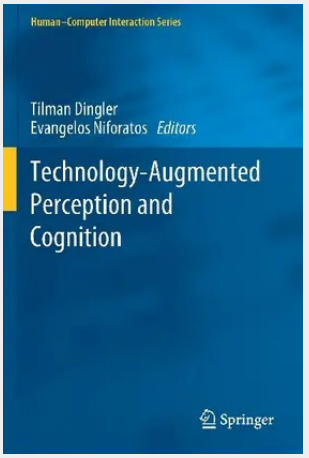
Dingler / Niforatos

Technology-Augmented Perception and Cognition



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Tools and technologies have long complemented and extended our physical abilities: from pre-historic spearheads to steam-propelled ploughs and high-tech prosthetics. While the development of lenses granted us insights into the micro and macrocosms, new sensors and technologies increasingly augment our cognitive abilities, including memory and perception.

This book integrates current research efforts, results, and visions from the fields of computer science, neuroscience, and psychology. It provides a comprehensive overview of the state-of-the-art and future applications of how technologies assist and augment human perception and cognition.

Experts in the field share their research and findings on:

- Working memory enhancements
- Digitization of memories through lifelog archives
- The consequences of technology-induced disruptions and forgetting
- The creation and utilization of new human senses
- Ethical andsecurity concerns that arise with augmentation technologies.

As technology weaves itself ever deeper into our lives, careful examination of its capabilities, risks and benefits is warranted. While this book focuses on the complementation and augmentation of human capabilities, it serves as a foundation for students, researchers and designers of technologies that push the boundaries of perception and cognition.

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