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Nota di contenuto	Human Machine Interaction Using Hybrid Biological Signals; Acknowledgement; Abstract; Table of Contents; Table of Figures; Nomenclature; 1 Introduction; 1.1 History; 1.2 Types of wheelchairs; 1.3 Current research; 2 Goals and objective; 2.1 Project description; 2.2 Hardware; 2.3 Software; 3 Evaluation; 3.1 Component testing; 3.2 Subsystem testing; 3.3 System testing; 4 Future development; 4.1 ANN training:; 4.2 Extra features in GUI:; 4.3 Headband:; 4.4 Additional improvements:; 4.5 Challenges encountered; 5 Conclusion; 6 References; About the author
Sommario/riassunto	In the last decade, digital revolution has improved the living standard of people in cities and urban areas. The project is part of the effort to improve the quality of life for the elderly, quadriplegic, and individuals with muscle degeneration condition. The author has tried to merge robotic techniques with powered wheelchair systems that can assist them in their daily life and provide mobility. This project tries to merge man with the machine in a minimalistic way, and to provide safer control at the same time. In this book, the author describes the software, hardware, and the challenge