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Nota di contenuto Part I Technology in a world of aging people. Gerontechnology: definitions and classification -- Clinical applications of technology: why are they needed, how to implement, and what challenges -- Technology support to integrated care for the management of older people -- Technologies in long-term care and nursing homes Part II Specific clinical applications of technologies in the older people. Technologies and frailty: a multidimensional approach -- Technologies in mobility disorders -- Digital technologies in cognitive disorders -- Technologies to assess psycho-behavioural symptoms -- Technologies to prevent falls and their consequences. Part III Older people and technologies. Robotics in geriatric care: a future with no return? -- Education and training in gerontechnology -- Artificial intelligence and the medicine of the future -- Bio-technologies to understand aging, frailty and resilience. .

Sommario/riassunto This book aims at disseminating information and knowledge in Gerontechnology, a topic that is still considered a specific area of interest for techno-experts (i.e. informatics, engineers, bio-engineers, bio-statistics, etc.) while there is a relatively low diffusion of

technological expertise among clinicians and other health professionals who are involved in the care of older people. In many parts of the world, average life expectancy is rising consistently, and at the same time technology is developing at a dramatic pace. This means having completely new options for the diagnosis, treatment and follow-up of diseases and disabilities of older people but also a new challenge to improve the quality of life by promoting an active and healthy aging at population level. This book explores the technical developments that are beginning to change the management of diseases and disabilities of geriatric patients. These include advanced Information and Communication Technologies (ICT), i.e. the new online services in healthcare and electronic medical-health records, Assistive Technologies (AT), i.e. behavior and motility monitoring sensorial tools, smart homes tools and telemedicine tools as well as Human–Computer Interaction technologies (HCI), i.e. robots for supporting people with mobility or cognitive limitations, humanoid robots, exoskeletons and rehabilitation robots. The Work is divided into three main parts: 1) Technology in a world of aging people, 2) Clinical applications of technologies in older people, and 3) Older people and technologies interaction including privacy issues, acceptability of technologies by older people and education and training of healthcare professionals in gerontechnology. The book will be an invaluable tool for geriatricians and other health professionals who are involved in the care of older people. .