1. Record Nr. UNINA9910627264803321

Titolo	Digital Phenotyping and Mobile Sensing : New Developments in Psychoinformatics / / edited by Christian Montag, Harald Baumeister
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2023
ISBN	3-030-98546-6
Edizione	[2nd ed. 2023.]
Descrizione fisica	1 online resource (466 pages)
Collana	Studies in Neuroscience, Psychology and Behavioral Economics, , 2196-6613
Disciplina	576.53 150.285
Soggetti	Biomedical engineering Medical informatics Clinical health psychology User interfaces (Computer systems) Human-computer interaction Biomedical Devices and Instrumentation Health Informatics Health Psychology User Interfaces and Human Computer Interaction
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Chapter 1: Digital Phenotyping and Mobile Sensing In Psychoinformatics—A Rapidly Evolving Interdisciplinary Research Endeavor -- Chapter 2: Ethical Considerations of Digital Phenotyping from the Perspective of a Healthcare Practitioner -- Chapter 3: Computerized Facial Emotion Expression Recognition -- Chapter 4: An Overview on Doing Psychodiagnostics in Personality Psychology and Tracking Physical Activity via Smartphones. .
Sommario/riassunto	This book offers a snapshot of cutting-edge applications of digital phenotyping and mobile sensing for studying human behavior and planning innovative e-healthcare interventions. The respective chapters, written by authoritative researchers, cover both theoretical perspectives and good scientific and professional practices related to

the use and development of these technologies. They share novel insights into established applications of mobile sensing, such as predicting personality or mental and behavioral health on the basis of smartphone usage patterns, and highlight emerging trends, such as the use of machine learning, big data and deep learning approaches, and the combination of mobile sensing with AI and expert systems. Important issues relating to privacy and ethics are analyzed, together with selected case studies. This thoroughly revised and extended second edition provides researchers and professionals with extensive information on the latest developments in the field of digital phenotyping and mobile sensing. It gives a special emphasis to trends in diagnostics systems and AI applications, suggesting important future directions for research in public health and social sciences.