

1. Record Nr.	UNINA9911020429103321
Autore	Khan Shehroz S
Titolo	ArtifiAI for Aging Rehabilitation and Intelligent Assisted Living : 8th International Workshop, ARIAL 2025, Held in Conjunction with IJCAI 2025, Montreal, QC, Canada, August 16-22, 2025, Proceedings // edited by Shehroz S. Khan, Luca Romeo, Ali Abedi
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2025
ISBN	981-9505-68-2
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (227 pages)
Collana	Communications in Computer and Information Science, , 1865-0937 ; ; 2620
Altri autori (Persone)	RomeoLuca AbediAli
Disciplina	006.3
Soggetti	Artificial intelligence Aging Geriatric nursing Geriatrics Artificial Intelligence Ageing Geriatric Care
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	-- Early Prediction of Agitation in Community-Dwelling People with Dementia using Multimodal Sensors and Machine Learning: Benchmarking of State-of-the-Art Techniques. -- Conversational AI for Cognitive, Emotional, and Social Engagement of Elderly Persons: A Large Language Model-Based Framework. -- Dynamics of Affective States During Takeover Requests in Conditionally Automated Driving Among Older Adults with and without Cognitive Impairment. -- Continuous Monitoring of Emotional Decline in Older Chinese Adults via Hierarchical Temporal Inference. -- Rehabilitation Exercise Quality Assessment and Feedback Generation Using Large Language Models with Prompt Engineering. -- Transforming Digital Reminder Systems for Dementia Care into Behavioral Anomaly Detectors: A Proof-of-Concept Using LSTM Autoencoders. -- BabaSpeech: A Deep Learning-

Based Translation of Sign Language into Lingala Text and Speech for Deaf-Mute Inclusivity. -- Scene Invariant Cross Camera Anomaly Detection of Behaviours of Risk in People with Dementia. -- Enhancing Diabetic Foot Ulcer Assessment through Fine-tuned Vision-Language Models. -- Brain Imaging and Tissue Segmentation from Paired CT-MRI Labels for Cognitively Normal and Dementia Cohort.

---

## Sommario/riassunto

This book constitutes the refereed proceedings of the 8th International Workshop on Artificial for Aging Rehabilitation and Intelligent Assisted Living, ARIAL 2025, Held in Conjunction with IJCAI 2025, Montreal, QC, Canada, August 16-22, 2025, Proceedings. The 10 full papers presented in this volume were carefully reviewed and selected from 14 submissions. They are grouped into the following topics: Multimodal data collection; Telemedicine; Sensor-based remote monitoring; Privacy-preserving algorithms; and Generative AI in elderly care.

---