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Proceedings of the

AIxAS 2022

**Italian Workshop on Artificial Intelligence
for an Ageing Society**

Workshop co-located with AIxIA 2022, Udine (UD)

November 28th – December 2nd, 2022

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Preface

This volume contains the papers presented at AIxAS 2022, the third edition of the Italian Workshop on Artificial Intelligence for an Ageing Society (<http://aixas.it/>), held within the 21st International Conference of the Italian Association for Artificial Intelligence (AIxIA 2022), on November 28th – December 2nd, 2022.

The aim of this series of workshops is to bring together researchers interested in different aspects of Artificial Intelligence for an Ageing Society. The working group “Artificial Intelligence for Ageing Society” has previously organized several Workshops on Technological Challenges and Scenarios for the Ageing Society in Brescia, Palermo, Torino, Genoa, Bari, Trento, Rende and online to discuss about technological roles and opportunities for Artificial Intelligence in the Ageing Society domain. Capitalizing from these activities, the group is establishing a stable forum on the topic and organized the this workshop with the goal of collecting contributions, ideas and new scientific and technological scenarios, as well as to discuss and disseminate results on Artificial Intelligence for Aging Society.

Artificial Intelligence (AI) methods and techniques have and will have a pivotal role, due to the advanced goals of the discipline and its inner cross-disciplinary attitude, in order to deliver innovative and impacting results and related technologies. The development of new AI-based solutions to support and help older adults, as well as those close to them, to cope with the changes of ageing and cognitive decline represents one of the most advanced ICT areas in the AI field. Nevertheless, facing the problems of an ageing society requires a cross-disciplinary approach, too. For this reason, the transition from a workshop focused on Artificial Intelligence for Ambient Assisted Living, as in previous years, to a more pervasive workshop on Artificial Intelligence for an Aging Society became urgent to better reflect the multifactorial nature of aging process and the multidisciplinary efforts needed to face with it.

This year, each paper was reviewed by at least two members of the Program Committee of the Workshop, and based on their recommendations, 6 documents have been selected for publication and presentation at AIxAS2022. In addition, the workshop was enriched by the valuable participation of Nic Palmarini as invited speaker. We sincerely thank all members of the AIxAS Program Committee for their effort in the review process that was fundamental for maintaining the high scientific level of the workshop. We thank the AIxIA council, who trusted us to organize AIxAS2022, and all the researchers of the AI community who supported this event by submitting their work and actively participating in this unusual but extremely fruitful and inspiring online form.

March 2023

Filippo Palumbo, Francesca Gasparini and Francesca Fracasso

Workshop Organization

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Table of Contents

Abstract

AI & Ageing Society Working Group - Abstract

Filippo Palumbo, Francesca Gasparini, Francesca Fracasso, Gabriella Cortellessa, Stefania Bandini

Papers

Sarcopenia Evaluation by using surface EMG-Based Platform with Supervised Classification

Andrea Manni, Gabriele Rescio, Andrea Caroppo, Pietro Siciliano, Alessandro Leone

Sentiment recognition of Italian elderly through domain adaptation on cross-corpus speech dataset

Francesca Gasparini, Alessandra Grossi

Using virtual reality to assess age-related differences in driving behaviour

Simone Fontana, Alessio Facchin, Stefania La Rocca, Laura Vacchi, Carlotta Lega

ChAALenge: An Ambient Assisted Living Project to Promote an Active and Health Ageing

Dimitri Belli, Paolo Barsocchi, Edoardo Gabrielli, Davide La Rosa, Vittorio Miori, Filippo Palumbo, Dario Russo, Gabriele Tolomei

Artificial Intelligence facing Multidimensional Poverty in Elderly

Stefania Bandini, Valeria Marina Borodi, David Chierogato, Marco Cremaschi, Federica D'Antico, Vincenzina Messina, Marco Terraneo, Laura Terzera, Francesca Gasparini