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## Preface to the Proceedings of WISHWell'22

June 20-21, 2022, Biarritz, France

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## Introduction

The workshop will bring together researchers from both industry and academia from the various disciplines to contribute to this new edition of the International Workshop on Intelligent Environments Supporting Healthcare and Well-Being, Healthcare and wellbeing whether taking place at medical organizations, at home, at work or in other environments, are complex and challenging to manage from an IT and IS perspective. These systems should cope with an assortment of patient conditions under various circumstances with a number of resource constraints. Pervasive healthcare technologies seek to respond to a variety of these pressures by integrating them within existing healthcare services. It is essential that intelligent pervasive healthcare solutions are developed and correctly integrated to assist health care professionals in delivering high levels of patient care. It is equally important that these pervasive solutions are used to empower patients and relatives for self-care and management of their health to provide seamless access for health care services. There is also a steady influx of trendy devices and 'Christmas must have' gadgets which are linked to various dimensions of health and well-being and these also present new opportunities as well as challenges in terms of accuracy and reliability. Another source of challenges arising from the quantity and diversity of devices available to individuals is the interoperability with other devices and systems as well as the integration with wider scale Smart Cities system [1].

The technical program will feature an invited Keynote: "IoT, Cloud and Robotics for Ambient Assisted Living" by Dr M. Dragone.

This will be supplemented with discussions and panel-type activities and the presentation of the following selected papers:

Machine Learning Models For Detection of Decompensation in Chronic Heart Failure Using Heart Sounds by David Susič, Gregor Poglajen and Anton Gradišek;

Towards an Augmented Reality based system for monitoring and handling of Emotions by Janson Rojas, Javier Navarro, Víctor Zamudio, David Gutiérrez-Hernández, Carlos Lino, Faiyaz Doctor and Elizabeth Nolasco;

Measuring Health Conditions Every Morning using a Smart Toothbrush with a Gas Sensor by Satoshi Yoshimura, Teruhiro Mizumoto, Yuki Matsuda, Keita Ueda and Akira Takeyama; and

An End-to-end Methodology for Semi-Supervised HAR Data Collection, Labeling, and Classification Using a Wristband by Lee Hinkle, Gentry Atkinson and Vangelis Metsis.

We deeply appreciate the Intelligent Environment 2022 conference organizers for their help on hosting this event. As a final note, we wish to express our sincere thanks to the Program Committee for their thorough reviews and support along this year and the previous editions.

## References

[1] Augusto JC (Ed.). Handbook of Smart Cities. Reference Works Series. Springer Verlag. January 2020. DOI:10.1007/978-3-030-15145-4