



SCUOLA DI INGEGNERIA E ARCHITETTURA

Avviso di seminario

Nuove tecnologie per l'automonitoraggio del rischio cardiometabolico

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Aula A2, via Rasi e Spinelli 176, Cesena

ABSTRACT

The cost of health services grows exponentially with the widespread use of complex diagnostic procedures as well as with population ageing. Cardiovascular and metabolic disease are paradigmatic cases. At present, the strategy of prevention, attempting to modify factors related to the genesis of the disease seems the only way to limit the epidemic growth of cardio-metabolic diseases. In any case, finely tuned personalized strategies are necessary. In this perspective, a novel technological device allowing the unobtrusive self-monitoring of individual cardio-metabolic risk has been developed in the EC Project SEMEOTICONS. This device, having the exterior aspect of a conventional mirror to be hosted in every-day life environments, is equipped with a suite of cameras and sensors and is able to compute a set of descriptors of the user's face related to cardio-metabolic risk. Descriptors are integrated into a concise indicator (well-being index) describing the individual status and used to trigger a guidance system that warns the user about dangerous conditions and noxious habits, and helping her/him in maintaining a healthy lifestyle.

AUTHOR'S BIO

Dr. Giuseppe Coppini works as a researcher at the CNR Institute of Clinical Physiology of Pisa. He has taught topics in Biomedical Engineering at the University of Padua and the University of Florence. He is a co-author of the textbook *Bioimmagini*. Since 1980, Giuseppe Coppini has been involved in research projects, funded by CNR, MIUR, and European Community. His main scientific interests cover biomedical imaging and computational intelligence methods in Medicine and Biology, main achievements being related to X-ray image generation and processing, medical image understanding, neural networks paradigms in biomedicine, Computer Aided Diagnosis systems in medical imaging. He is the Scientific Coordinator of the EC Project SEMEOTICONS.

Dr. Veronica Chiara Zuccalà is a Biomedical Engineer working at the CNR Institute of Clinical Physiology of Pisa in the frame of the EC Project SEMEOTICONS.

Il seminario è aperto a tutti gli interessati.

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