

Status of the research activities in COST ACROSS Task Force “Human Factors” (TF10)

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Background

Inevitably, as our basic human needs (food, housing, etc.) are assured in any modern developed society, the differentiation factors for human Quality of Life (QoL) improvements relate to our greater capacity to make informed decisions across our daily life activities. Availability of highly powerful, personalized and wearable mobile devices facilitates the provision of the ubiquitous mobile communications and computing Internet services and applications that enable the QoL improvement. The Quality of Life task force researches these applications – their users’ needs and expectations for the Internet services, and ways of maximizing his/her experience and the impact on the QoL of the individual user. There is a strong networking component in the conducted research, as all the Internet services rely their serviceability on the underlying networked Internet infrastructures.

Results

So far we have delineated some of the users’ needs and expectations for the Internet services, and simulated selected methods for QOE assurance. We have also surveyed QoL with 50+ individuals and mapped it to what’s needed with respect to technologies to fulfil it.

Collaborations

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Publications

Katarzyna Wac, Gerardo Pinar, Mattia Gustarini, Jerome Marchanoff, Smartphone Users' Mobile Network's Quality Provision and VoLTE Intend: Six-months Field Study, IEEE International Symposium on a World of Wireless Mobile and Multimedia Networks (IEEE WoWMoM 2015), Boston, USA, June 2015.

Matteo Ciman, Katarzyna Wac, Ombretta Gaggi, iSenseStress: Assessing Stress Through Human-Smartphone Interaction Analysis, 9th International Conference on Pervasive Computing Technologies for Healthcare (PervasiveHealth), Istanbul, Turkey, May 2015.