Mobile applications and Web 2.0 have dramatically impacted many aspects of professional and private access to information and influence how we make decisions. They have the potential to facilitate the design and development of superior ubiquitous healthcare solutions. In addition, there is a trend to foster active patient participation in their care. In this minitrack, we focus on how such pervasive and mobile solutions might be utilized to ameliorate the challenges faced by healthcare delivery such as escalating cost pressure, aging population, increasing chronic diseases, and a move to preventive care. Integral to these solutions is a patient-centric view in order to satisfy consumer expectations.

Specifically, a new field of research is evolving which is focused on ambient and pervasive technologies for healthcare, e.g., incorporating mobile devices, smart sensors, and social media. This rapidly growing area is expected to play an increasingly important role for healthcare globally. Reasons for this include: the higher mobility of individuals, the need to have active and empowered patients, the pressure to provide effective and efficient care, the growth in chronic diseases and therefore the demand for appropriate applications to monitor and manage these diseases. Pervasive and mobile solutions generate large amounts of data. This big data is a bonanza for enhancing insights into healthcare processes as well as for improving healthcare IT. This minitrack has been designed to provide an outlet for research in this nascent area. Selected papers will be fast-tracked for a special issue in Health and Technology published by Springer.

Completed and research in progress papers are welcomed that focus on any topic within this discipline. In particular, we welcome papers that address technological aspects, applications, themes, and models as well as other critical issues, including but not limited to:

- Network-centric system design using sensing and pervasive technologies
- Biomedical applications based on sensor data that support health/fitness monitoring
- Sensor-based solutions for treatment tracking and tracing and compliance control
- Mobile applications for healthcare professionals and consumers
- Innovative Apps for chronic disease management and fitness/wellness
- Online social networks for self-care and healthcare information exchange
- Applying big data analytics to health-related sensor data and social media data
- Public health initiatives to foster information exchange and enhance community health
- Methodologies, models, and frameworks to support ubiquitous healthcare
- User centered design and other theories for superior ubiquitous healthcare
- Developing business models and cost-effective concepts for ubiquitous healthcare
- Impact of Affordable Care and similar initiatives on ubiquitous healthcare delivery
- Implications of Meaningful Use requirements on mobile health solutions
- Critical issues for pervasive and mobile solutions

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