
Call for Participation

Brain and Body Interfaces: Designing for Meaningful Interaction

<http://brainandbody.physiologicalcomputing.net>

The brain and body provide a wealth of information about the physiological, cognitive and emotional state of the user. As sensor technology improves there is an increasing opportunity to use physiological data as a form of input control in computerised systems. While these signals offer new and exciting mechanisms for the control of interactive systems, the issue of whether these physiological interfaces are appropriate for application and offer the user a meaningful level of interaction has been relatively unexplored.

The goal of this one-day workshop is to bring together researchers working on brain and body interactive systems in order to (1) provide a platform for understanding physiological interaction in different research strands, (2) establish a forum for discussion of technologies, techniques and measures, and (3) build and extend the physiological computing community.

We invite technical contributions on the following three topics: -

1. An Application Approach to Sensor Design - how does the application influence the specification of the physiological measures and the design of the sensor?

2. Meaningful Interactions with Physiology - what defines a meaningful physiological interaction from the perspective of the user and what types of meaningful interaction may exist across different categories of physiological computing system? How do we / what methods are there to evaluate a meaningful interaction?

3. Ethics and privacy - what are the ethical and privacy issues involved in the storage and/or manipulation of a user's physiological data and to what extent should we allow their state to be manipulated?

Authors are asked to submit a 4 page position paper in the [CHI extended abstracts format](#) to submit@physiologicalcomputing.net by 14 Jan, 2011. Papers may describe ongoing work, recent results, or opinions and approaches related to the workshop topic. A short biography of the author(s) attending the workshop needs to be included (100-150 words). Papers will be peer-reviewed and the organising committee will select up to 20 participants according to relevance, quality of results, research diversity, and likelihood for stimulating and contributing to the discussion. If accepted, at least one author must register for the workshop and for one or more days of the conference. Papers will also be compiled on the workshop website.