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Second International Workshop on Emotion Representations and Modelling in Human-Computer Interaction Systems
ERM4HCI 2014

Organisers

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Scope

To develop user adaptable Human-Computer Interaction (HCI), the role of emotions occurring during interaction gained in attention over the past years. Emotions, being widely accepted as essential to Human-Human interaction, became increasingly interesting for system designers of affective interfaces in order to provide natural, user-centred interaction. However, to adequately incorporate emotions in modern HCI systems, results from varying research disciplines must be combined.

Depending on the modalities used and the aim of the model incorporated, varying difficulties in the emotion representation may arise. The 2nd ERM4HCI concentrates on emotion representations, the characteristics used to describe and identify emotions and their relation to personality and user state models (such as age, gender, physical/cognitive load, etc.).

Researchers are encouraged to discuss possible interdependencies of characteristics on an intra- and inter-modality level. Interdependencies of characteristics may occur if two characteristics are influenced by the same physiological change in the observed user, but other factors (technical, constructive, etc.) can cause interdependencies as well.

The workshop aims at identifying a minimal set of characteristics to represent and recognise emotions in multi-modal affective HCI. The workshop addresses some of the typical issues arising in multi-modal data processing for affective systems, such as timing aspects, confidence metrics, discretisation issues and issues related to the translation between different emotion models.

Researchers discussing their feature selection from a multi-modal or physiological point of view are encouraged to submit to the workshop. Theoretical papers contributing to the understanding of emotions in order to aid in the technical modelling of emotions for affective systems are welcomed.

Following the tradition of last year's ERM4HCI, the workshop especially supports discussions on the necessary prerequisites for consistent and interoperable emotion representations in multi-modal affective systems.

Program Committee

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Important Dates

Submission Deadline:
July, 15th 2014

Notification of Acceptance:
August, 25th 2014

Camera-ready Deadline:
September, 5th 2014

Workshop Date:
November, 16th 2014

Topics include, but are not limited to:

- Personality models and the incorporation of emotion models
- Multi-modal aspects of emotion recognition and representation
- Physiology of emotion representations and characteristics
- Feature selection for emotion recognition in HCI
- Interdependencies of emotion recognition features
- Minimal (multi-modal) feature sets for affective HCI systems
- Approaches to the interoperability of emotion models
- Timing in multi-modal emotion recognition scenarios
- Confidence metrics for emotion recognition/classification in HCI
- Consistent modelling of emotions in multi-modal HCI systems
- Correlation of user states and emotion recognition features
- User state specific emotion modelling
- Domain (user/system/world) specific emotion representations and interfaces
- Technical aspects of multi-modal emotion recognition

Submission

Prospective authors are invited to submit full papers (6 pages). All submissions should be anonymous and according to the specifications of the ICMI 2014.

For further information refer to erm4hci.kognitivesysteme.de