

EmoSPACE 1st International Workshop on Emotion Synthesis, rePresentation, and Analysis in Continuous spaceE

In conjunction with IEEE FG 2011, Santa Barbara, California, 21/25 March, 2011

The 1st International Workshop on Emotion Synthesis, rePresentation, and Analysis in Continuous spaceE – EmoSPACE will be held in conjunction with the IEEE FG 2011 in Santa Barbara on the 21/25 of March, 2011.

Organisers

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Scope

Human affective behaviour is multimodal, continuous and complex. Despite major advances within the affective computing research field, modelling, analysing, interpreting and responding to human affective behaviour still remains as a challenge for automated systems as emotions are complex constructs, with fuzzy boundaries and with substantial individual variations in expression and experience. Therefore, affective and behavioural computing researchers have recently invested increased effort in exploring how to best model, analyse and interpret the subtlety, complexity and continuity of affective behaviour in terms of latent dimensions and appraisals, rather than in terms of a small number of discrete emotion categories.

The key aim of this workshop is to present cutting-edge research and new challenges in automatic, dimensional and continuous analysis and synthesis of human emotional behaviour in an interdisciplinary forum of affective and behavioural scientists. More specifically, the workshop aims (i) to bring forth existing efforts and major accomplishments in modelling, analysis and synthesis of emotional expressions in dimensional and continuous spaces, (ii) while encouraging the design of novel applications in context as diverse as human-computer and human-robot interaction, clinical and biomedical studies, learning and driving environments, and entertainment technology, and (iii) to focus on open issues and new challenges in the field.

Important Dates

Paper submission
30 December 2010

Notification of acceptance
12 January 2011

Camera ready paper
19 January 2011

Workshop
21 or 25 March 2011
(t.b.a.)

Suggested workshop topics include, but are by no means limited to:

Modalities and cues for dimensional emotion recognition

- facial expressions
- head movements and gestures
- body postures and gestures
- audio (e.g., speech, non-linguistic vocalisations, etc.)
- bio signals (e.g., heart, brain, thermal signals, etc.)

Automatic analysis and prediction

- approaches for discretised and continuous prediction of emotions
- identifying appropriate classification and prediction methods
- introducing or identifying optimal strategies for fusion
- techniques for modelling high inter-subject variation
- approaches to determining duration of emotions for automatic analysis

Data acquisition and annotation

- elicitation of emotions
- individual variations (interpersonal and cognitive issues)
- (multimodal) naturalistic data sets annotated in dimensional spaces
- (multimodal) annotation tools for dimensional emotions
- modelling annotations from multiple raters and their reliability

Applications

- interaction with robots, virtual agents, and games (including tutoring)
- single and multi-user smart environments (e.g., in a car)
- implicit (multimedia) tagging
- clinical and biomedical studies (e.g., autism, depression, pain etc.)

Program Committee

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M. Valstar, Imperial College London, UK

Submission Policy

In submitting a manuscript to this workshop, the authors acknowledge that no paper substantially similar in content has been submitted to another conference or workshop.

Manuscripts should be in the IEEE FG paper format.

Authors should submit papers as a PDF file.

Papers accepted for the workshop will be allocated 6 pages in the proceedings, with the option of having up to 2 extra pages.

EmoSPACE reviewing is double blind. Reviewing will be by members of the program committee. Each paper will receive at least two reviews. Acceptance will be based on relevance to the workshop, novelty, and technical quality.

Submission and reviewing will be handled via the the Microsoft CMT system.