Keywords: Facial Expressions

List of Publications

Journal Articles

[J1] C Mayer, M Eggers and B Radig,
Cross-database evaluation for facial expression recognition,

[J2] C Mayer and B Radig,
Face model fitting with learned displacement experts and multi-band images,

[J3] C Mayer and B Radig,
Face model fitting with learned displacement experts and multi-band images,

[J4] C Mayer, M Wimmer and B Radig,
Adjusted Pixel Features for Facial Component Classification,

[J5] M Wimmer, Z Riaz, C Mayer and B Radig,
Recognizing Facial Expressions Using Model-based Image Interpretation,

[J6] M Wimmer, F Stulp, S Pietzsch and B Radig,
Learning Local Objective Functions for Robust Face Model Fitting,

Books

[B1] M Wimmer,
Future User Interfaces Enhanced by Facial Expression Recognition – Interpreting Human Faces with Model-based Techniques,
VDM, Verlag Dr. Müller mar 2008.

Conference and Workshop Papers

[C1] B Gonsior, S Sosnowski, C Mayer, J Blume, B Radig, D Wollherr and K Kühnlenz,
Improving Aspects of Empathy and Subjective Performance for HRI through Mirroring Facial Expressions,

[C2] C Mayer and B Radig,
Learning Displacement Experts from Multi-band Images for Face Model Fitting,
International Conference on Advances in Computer-Human Interaction, feb 2011.

[C3] C Mayer, S Sosnowski, K Kühnlenz and B Radig,
Towards robotic facial mimicry: system development and evaluation,
Keywords: Facial Expressions

List of Publications

[C4] S Sosnowski, C Mayer, K Kühlenz and B Radig,
Mirror my emotions! Combining facial expression analysis and synthesis on a robot,
The Thirty Sixth Annual Convention of the Society for the Study of Artificial Intelligence and Simulation of Behaviour (AISB2010), 2010.

[C5] F Wallhoff, T Rehrl, C Mayer and B Radig,
Real-Time Face and Gesture Analysis for Human-Robot Interaction,

[C6] C Mayer, M Wimmer, M Eggers and B Radig,
Facial Expression Recognition with 3D Deformable Models,

[C7] Z Riaz, M Beetz and B Radig,
Image Normalization for Face Recognition using 3D Model,

[C8] Z Riaz, S Gedikli, M Beetz and B Radig,
A Unified Features Approach to Human Face Image Analysis and Interpretation,

[C9] Z Riaz, C Mayer, M Beetz and B Radig,
3D Model for Face Recognition across Facial Expressions,

[C10] Z Riaz, C Mayer, M Beetz and B Radig,
Facial Expressions Recognition from Image Sequences,

[C11] Z Riaz, C Mayer, M Beetz and B Radig,
Model Based Analysis of Face Images for Facial Feature Extraction,

[C12] Z Riaz, C Mayer, M Wimmer, M Beetz and B Radig,
A Model Based approach for Expression Invariant Face Recognition,

[C13] C Mayer, M Wimmer, F Stulp, Z Riaz, A Roth, M Eggers and B Radig,
Interpreting the Dynamics of Facial Expressions in Real Time Using Model-based Techniques,

[C14] C Mayer, M Wimmer, F Stulp, Z Riaz, A Roth, M Eggers and B Radig,
A Real Time System for Model-based Interpretation of the Dynamics of Facial Expressions,
Proc. of the International Conference on Automatic Face and Gesture Recognition (FGR08), Amsterdam, Netherlands, sep 2008.
Keywords: Facial Expressions

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[C15] S Pietzsch, M Wimmer, F Stulp and B Radig,
Face Model Fitting with Generic, Group-specific, and Person-specific Objective Functions,

[C16] Z Riaz, M Beetz and B Radig,
Shape Invariant Recognition of Segmented Human Faces using Eigenfaces,

[C17] Z Riaz, C Mayer, M Wimmer and B Radig,
Model Based Face Recognition Across Facial Expressions,

[C18] M Wimmer, BA. MacDonald, D Jayamuni and A Yadav,
Facial Expression Recognition for Human-robot Interaction – A Prototype,

[C19] M Wimmer, C Mayer, S Pietzsch and B Radig,
Tailoring Model-based Techniques for Facial Expression Interpretation,
The First International Conference on Advances in Computer-Human Interaction (ACHI08), Sainte Luce, Martinique, Feb 2008.

[C20] M Wimmer, C Mayer and B Radig,
Recognizing Facial Expressions Using Model-based Image Interpretation,
Verbal and Nonverbal Communication Behaviours, COST Action 2102 International Workshop, Vietri sul Mare, Italy, Apr 2008.

[C21] M Wimmer, C Mayer and B Radig,
Robustly Classifying Facial Components Using a Set of Adjusted Pixel Features,
Proc. of the International Conference on Face and Gesture Recognition (FGR08), Amsterdam, Netherlands, Sep 2008.

[C22] M Wimmer, C Mayer, F Stulp and B Radig,
Face Model Fitting based on Machine Learning from Multi-band Images of Facial Components,
Workshop on Non-Rigid Shape Analysis and Deformable Image Alignment, held in conjunction with CVPR, Anchorage, AK, USA, Jun 2008.

[C23] M Wimmer, S Pietzsch, C Mayer and B Radig,
Robustly Estimating the Color of Facial Components Using a Set of Adjusted Pixel Features,

[C24] M Wimmer, S Pietzsch, F Stulp and B Radig,
Learning Robust Objective Functions with Application to Face Model Fitting,
Keywords: Facial Expressions

List of Publications

[C25] M Wimmer, U Zucker and B Radig,
*Human Capabilities on Video-based Facial Expression Recognition,*

PhDThesis

[PhD1] C Mayer,
*Facial Expression Recognition With A Three-Dimensional Face Model,*
Technische Universität München, München, 2012.

[PhD2] M Wimmer,
*Model-based Image Interpretation with Application to Facial Expression Recognition,*
Technische Universität München, Institute for Informatics, dec 2007.