Prof. Dr. Bernd Radig
List of Publications

[C1] Christoph Mayer and Bernd Radig,
Learning Displacement Experts from Multi-band Images for Face Model Fitting,

[C2] Barbara Gonsior, Stefan Sosnowski, Christoph Mayer, Jürgen Blume, Bernd Radig, Dirk Wollherr, and Kolja Kühnlenz,
Improving Aspects of Empathy and Subjective Performance for HRI through Mirroring Facial Expressions,

[J1] Michael Beetz, Martin Buss and Bernd Radig,
Learning from Humans – Cognition-enabled Computational Models of Everyday Activity,

[C1] S. Sosnowski, C. Mayer, K. Kühnlenz and B. Radig,
Mirror my emotions! Combining facial expression analysis and synthesis on a robot,

[C2] Frank Wallhoff, Tobias Rehrl, Christoph Mayer and Bernd Radig,
Real-Time Face and Gesture Analysis for Human-Robot Interaction,

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

A Distributed Many-Camera System for Multi-Person Tracking,
R. Wichert and B. de Ruyter(Eds.), *Proceedings of the First International Joint Conference on Ambient Intelligence (AmI 2010)*, Springer Lecture Notes in Computer Science, November 2010.

Multi Joint Action in CoTeSys — Setup and Challenges,
CoTeSys-TR-10-01, CoTeSys Cluster of Excellence: Technische Universität München &38; Ludwig-Maximilians-Universität München, Munich, Germany, June 2010.
[J1] Christoph Mayer, Matthias Wimmer and Bernd Radig,
Adjusted Pixel Features for Facial Component Classification,

[C1] Zahid Riaz, Christoph Mayer, Matthias Wimmer, Michael Beetz and Bernd Radig,
A Model Based approach for Expression Invariant Face Recognition,

[C2] Zahid Riaz, Christoph Mayer, Michael Beetz and Bernd Radig,
Facial Expressions Recognition from Image Sequences,

[C3] Zahid Riaz, Christoph Mayer, Michael Beetz and Bernd Radig,
Model Based Analysis of Face Images for Facial Feature Extraction,

[C4] Christoph Mayer, Matthias Wimmer, Martin Eggers and Bernd Radig,
Facial Expression Recognition with 3D Deformable Models,

[C5] Zahid Riaz, Michael Beetz and Bernd Radig,
Image Normalization for Face Recognition using 3D Model,

[C6] Zahid Riaz, Christoph Mayer, Michael Beetz and Bernd Radig,
3D Model for Face Recognition across Facial Expressions,

[C7] Zahid Riaz, Suat Gedikli, Michael Beetz and Bernd Radig,
A Unified Features Approach to Human Face Image Analysis and Interpretation,

[C8] Zahid Riaz, Christoph Mayer, Saquib Sarfraz, Michael Beetz and Bernd Radig,
Multi-Feature Fusion in Advanced Robotics Applications,

[C9] Jürgen Gast, Alexander Bannat, Tobias Rehrl, Christoph Mayer, Frank Wallhoff, Gerhard Rigoll and Bernd Radig,
Did I Get it Right: Head Gesture Analysis for Human-Machine Interaction,
[J1] Matthias Wimmer, Freek Stulp, Sylvia Pietzsch and Bernd Radig, 
Learning Local Objective Functions for Robust Face Model Fitting, 

[J2] Matthias Wimmer, Zahid Riaz, Christoph Mayer and Bernd Radig, 
Recognizing Facial Expressions Using Model-based Image Interpretation, 

[C1] Michael Beetz, Freek Stulp, Bernd Radig, Jan Bandouch, Nico Blodow, Mihai Dolha, Andreas Fedrizzi, Dominik Jain, Uli Klank, Ingo Kresse, Alexis Maldonado, Zoltan Marton, Lorenz Mösenlechner, Federico Ruiz, Radu Bogdan Rusu and Moritz Tenorth, 
The Assistive Kitchen – A Demonstration Scenario for Cognitive Technical Systems, 
*IEEE 17th International Symposium on Robot and Human Interactive Communication (RO-MAN)*, Muenchen, Germany, 1-8, 2008.

[C2] Matthias Wimmer, Christoph Mayer, Freek Stulp and Bernd 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, June 2008.

[C3] Matthias Wimmer, Christoph Mayer, Sylvia Pietzsch and Bernd Radig, 
Tailoring Model-based Techniques for Facial Expression Interpretation, 
The First International Conference on Advances in Computer-Human Interaction (ACHI08), Sainte Luce, Martinique, February 2008.

[C4] Matthias Wimmer, Björn Schuller, Dejan Arsic, Bernd Radig and Gerhard Rigoll, 
Low-level Fusion of Audio and Video Feature for Multi-modal Emotion Recognition, 

[C5] Sylvia Pietzsch, Matthias Wimmer, Freek Stulp and Bernd Radig, 
Face Model Fitting with Generic, Group-specific, and Person-specific Objective Functions, 

[C6] Matthias Wimmer, Christoph Mayer and Bernd 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, September 2008.

[C7] Matthias Wimmer, Shinya Fujie, Freek Stulp, Tetsunori Kobayashi and Bernd Radig, 
An ASM Fitting Method Based on Machine Learning that Provides a Robust Parameter Initialization for AAM Fitting, 
Proc. of the International Conference on Automatic Face and Gesture Recognition (FGR08), Amsterdam, Netherlands, September 2008.
Christoph Mayer, Matthias Wimmer, Freek Stulp, Zahid Riaz, Anton Roth, Martin Eggers and Bernd Radig,
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*Proc. of the International Conference on Automatic Face and Gesture Recognition (FGR08),* Amsterdam, Netherlands, September 2008.

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Christoph Mayer, Matthias Wimmer, Freek Stulp, Zahid Riaz, Anton Roth, Martin Eggers and Bernd Radig,
**Interpreting the Dynamics of Facial Expressions in Real Time Using Model-based Techniques,**

Matthias Wimmer, Sylvia Pietzsch, Christoph Mayer and Bernd Radig,
**Robustly Estimating the Color of Facial Components Using a Set of Adjusted Pixel Features,**

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**Recognizing Facial Expressions Using Model-based Image Interpretation,** *Verbal and Nonverbal Communication Behaviours, COST Action 2102 International Workshop,* Vietri sul Mare, Italy, , April 2008.

Zahid Riaz, Christoph Mayer, Matthias Wimmer and Bernd Radig,
**Model Based Face Recognition Across Facial Expressions,** *Journal of Information and Communication Technology,* , , December 2008.

Zahid Riaz, Michael Beetz and Bernd Radig,
**Shape Invariant Recognition of Segmented Human Faces using Eigenfaces,** *Proceedings of the 12th International Multitopic Conference,* , IEEE, 2008.

Matthias Wimmer, Bernd Radig and Christoph Mayer,
**SIPBILD – Mimik- und Gestikerkennung in der Mensch-Maschine-Schnittstelle,**

Björn Schuller, Matthias Wimmer, Dejan Arsic, Gerhard Rigoll and Bernd Radig,

Matthias Wimmer, Sylvia Pietzsch, Freek Stulp and Bernd Radig,
**Learning Robust Objective Functions with Application to Face Model Fitting,** *Proceedings of the 29th DAGM Symposium,* Heidelberg, Germany, Vol. 1, 486-496, September 2007.
[C4] Matthias Wimmer and Bernd Radig, 
**Automatically Learning the Objective Function for Model Fitting,**

[C5] Matthias Wimmer, Ursula Zucker and Bernd Radig, 
**Human Capabilities on Video-based Facial Expression Recognition,**

[C6] Matthias Wimmer and Bernd Radig, 
**Initial Pose Estimation for 3D Models Using Learned Objective Functions,**

[C7] Matthias Wimmer, Christoph Mayer, Freek Stulp and Bernd Radig, 
**Estimating Natural Activity by Fitting 3D Models via Learned Objective Functions,**

[C8] Matthias Wimmer, Freek Stulp and Bernd Radig, 
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[J1] Matthias Wimmer and Bernd Radig, 
**Adaptive Skin Color Classificator,**

[C1] Matthias Wimmer, Freek Stulp, Stephan Tschechne and Bernd Radig, 
**Learning Robust Objective Functions for Model Fitting in Image Understanding Applications,**

[C2] Matthias Wimmer, Bernd Radig and Michael Beetz, 
**A Person and Context Specific Approach for Skin Color Classification,**

[C1] Matthias Wimmer and Bernd Radig, 
**Adaptive Skin Color Classificator,**
[C2] Simone Hämmerle, Matthias Wimmer, Bernd Radig and Michael Beetz,  
Sensor-based Situated, Individualized, and Personalized Interaction in Smart Environments,  

[J1] Michael Beetz, Thorsten Schmitt, Robert Hanek, Sebastian Buck, Freek Stulp, Derik Schröter and Bernd Radig,  
The AGILO Robot Soccer Team – Experience-based Learning and Probabilistic Reasoning in Autonomous Robot Control,  

[C1] D. Schröter, T. Weber, M. Beetz and B. Radig,  
Detection and Classification of Gateways for the Acquisition of Structured Robot Maps,  

[J1] Thorsten Schmitt, Robert Hanek, Michael Beetz, Sebastian Buck and Bernd Radig,  
Cooperative Probabilistic State Estimation for Vision-based Autonomous Mobile Robots,  

[C1] Michael Beetz, Sebastian Buck, Robert Hanek, Thorsten Schmitt and Bernd Radig,  
The AGILO Autonomous Robot Soccer Team: Computational Principles, Experiences, and Perspectives,  

[C1] R. Bertelsmeier and Bernd Radig,  
Kontextunterstützte Analyse von Szenen mit bewegten Objekten.,  