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,
2nd International Conference on Cross-Modal Analysis of Speech, Gestures, Gaze and

[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 K lanz, 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)*, München, 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.
[C8] Christoph Mayer, Matthias Wimmer, Freek Stulp, Zahid Riaz, Anton Roth, Martin Eggers and Bernd 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, September 2008.

[C9] Matthias Wimmer, Christoph Mayer, Martin Eggers and Bernd Radig,
*Are You Happy with Your First Name?*,

[C10] 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,

[C11] Matthias Wimmer, Sylvia Pietzsch, Christoph Mayer and Bernd Radig,
Robustly Estimating the Color of Facial Components Using a Set of Adjusted Pixel Features,

[C12] Matthias Wimmer, Christoph Mayer and Bernd Radig,
Recognizing Facial Expressions Using Model-based Image Interpretation,
*Verbal and Nonverbal Communication Behaviours*, COST Action 2102 International Workshop, Vietri sul Mare, Italy, , April 2008.

[C13] Zahid Riaz, Christoph Mayer, Matthias Wimmer and Bernd Radig,
Model Based Face Recognition Across Facial Expressions,

[C14] Zahid Riaz, Michael Beetz and Bernd Radig,
Shape Invariant Recognition of Segmented Human Faces using Eigenfaces,

[C1] Matthias Wimmer, Bernd Radig and Christoph Mayer,
SIPBILD – Mimik- und Gestikerkennung in der Mensch-Maschine-Schnittstelle,

[C2] Björn Schuller, Matthias Wimmer, Dejan Arsic, Gerhard Rigoll and Bernd Radig,
Audiovisual Behavior Modeling by Combined Feature Spaces,

[C3] Matthias Wimmer, Sylvia Pietzsch, Freek Stulp and Bernd Radig,
Learning Robust Objective Functions with Application to Face Model Fitting,
[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,  
**Enabling Users to Guide the Design of Robust Model Fitting Algorithms,**  

[J1] Matthias Wimmer and Bernd Radig,  
**Adaptive Skin Color Classifier,**  

[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,**  

[C3] Matthias Wimmer and Bernd Radig,  
**Adaptive Skin Color Classifier,**  
[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.,