Lessons from Collecting a Million Biometric Samples
Expression Robust 3D Face Recognition by Matching Multi-component Local Shape Descriptors on the Nasal and Adjoining Cheek Regions
Shared Representation Learning for Heterogenous Face Recognition

Coffee Break: 10:30-11:00

Session 2: 10 Year Vision session (11:00-12:20) - Tuesday

Lunch Break: 12:20-14:00
Lunch-break Talks - industry

Session 3: Poster Highlights A (14:00-15:00) - Tuesday
20 posters (3minutes per poster)

Session 4: Facial analysis (15:00-16:00) - Tuesday
Leveraging Geometry and Appearance Cues for Recognizing Family Photos
Realistic Inverse Lighting from a Single 2D Image of a Face, Taken Under Unknown and Complex Lighting
On the Quantitative Analysis of Craniofacial Asymmetry in 3D

Coffee Break: 16:00-16:15

Session 5: Face Technology Applications (16:15-17:15) - Tuesday
Dense 3D Face Alignment from 2D Videos in Real-Time
Detecting Bids for Eye Contact Using A Wearable Camera
Hierarchical Hybrid Statistic based Video Binary Code and Its Application to Face Retrieval in TV-Series

Poster Session I (17:15-19:00) - papers from Spotlight A (Tuesday)

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Where is my Friend? - Person identification in Social Networks 143
Speeding up 2D-Warping for Pose-Invariant Face Recognition 136
Robust Gaze Estimation Based on Adaptive Fusion of Multiple Cameras 96
Probabilistic Nearest Neighbor Search for Robust Classification of Face Image Sets 140
Face Recognition under Pose Variation with Active Shape Model to Adjust Gabor Filter Kernels and to Correct Feature Extraction Location 141
Supervised Learning Approach to Remote Heart Rate Estimation from Facial Videos 204
Prediction Gradients for Feature Extraction and Analysis from Convolutional Neural Networks 213
A Hierarchical Training and Identification Method using Gaussian Process Models for Face Recognition in Videos 45
3D Local Derivative Pattern for Hyperspectral Face Recognition 86
Facial Makeup Detection Technique Based on Texture and Shape Analysis 55

Journal Paper Poster Session I (17:15-19:00) - papers not in Spotlight A (Tuesday)

BAUM-2: A Multilingual Audio-Visual Affective Face Database (Journal paper)
Coupled Discriminative Feature Learning for Heterogeneous Face Recognition (Journal paper)
Comparison of human and computer performance across face recognition experiments (Journal paper)
Estimating smile intensity: A better way (Journal paper)
Interpersonal coordination of head motion in distressed couples (Journal paper)
DECAF: MEG-based Multimodal Database for Decoding Affective Physiological Responses (Journal paper)
Automatic group happiness intensity analysis (Journal paper)

Demo session I (17:15-19:00) - Tuesday

3D Interaction Design: Increasing the Stimulus-Response Correspondence by using Stereoscopic Vision
Real-Time Dense 3D Face Alignment from 2D Video with Automatic Facial Action Unit Coding
Controllable Face Privacy
Semi-transparent mirror with hidden camera to assess human emotions
A Live Video Analytic System for Affect Analysis in Public Space
3D Face Recognition Utilizing a Low-Cost Depth Sensor
Faces and Thoughts: an Empathic Dairy
Let me Tell You about Your Personality! Real-time Personality Prediction from Nonverbal Behavioural Cues
Who do you want to be? Real-time Face Swap
Real-Time Facial Character Animation
IntraFace
**Exhibition session I (8:30-19:00) - Tuesday**

EmotionID  
3dMD  
DI4D

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**Wednesday**

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**Keynote 2: 8:30-9:30**  
Ursula Hess

**Session 6: Affect & Expression I (9:30-10:30) - Wednesday**

<table>
<thead>
<tr>
<th>Paper ID</th>
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<tbody>
<tr>
<td>208</td>
<td>The More the Merrier: Analysing the Affect of a Group of People in Images</td>
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<td>122</td>
<td>Play with Me - Measuring a Child’s Engagement in a Social Interaction</td>
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<tr>
<td>4</td>
<td>Perinasal Indicators of Deceptive Behavior</td>
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</tbody>
</table>

**Coffee Break: 10:30-11:00**

**Session 7: Journal paper session (11:00-12:30) - Wednesday**

- Comparison of human and computer performance across face recognition experiments  
- Coupled Discriminative Feature Learning for Heterogeneous Face Recognition  
- Estimating smile intensity: A better way.  
- Automatic group happiness intensity analysis  
- Interpersonal coordination of head motion in distressed couples  
- DECAF: MEG-based Multimodal Database for Decoding Affective Physiological Responses

**Lunch Break: 12:30-14:00**  
**Lunch-break Talks - industry**
### Session 8: Poster Highlights (14:00-15:00) - Wednesday

19 posters (3 minutes per poster)

### Session 9: Affect & Expression II (15:00-16:00) - Wednesday

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<tr>
<th>Paper ID</th>
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<tr>
<td>87</td>
<td>Multi-Instance Hidden Markov Model For Facial Expression Recognition</td>
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<td>52</td>
<td>Pairwise Linear Regression: An Efficient and Fast Multi-view Facial Expression Recognition</td>
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<td>210</td>
<td>Action Unit Intensity Estimation using Hierarchical Partial Least Squares</td>
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**Coffee Break: 16:00-16:15**

### Session 10: Affect & Expression III (16:15-17:15) - Wednesday

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<tr>
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<td>138</td>
<td>Variable-state Latent Conditional Random Fields for Facial Expression Recognition and Action Unit Detection</td>
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<td>Three Dimensional Binary Edge Feature Representation for Pain Expression Analysis</td>
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### Poster Session II (17:15-19:00) - papers from Spotlight B (Wednesday)

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<td>Correcting Radial and Perspective Distortion by Using Face Shape Information</td>
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<td>Improved Weak Labels using Contextual Cues for Person Identification in Videos</td>
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<td>The Beauty of Capturing Faces: Rating the Quality of Digital Portraits</td>
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<td>Adaptive LPQ: An Efficient Descriptor for Blurred Face Recognition</td>
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<td>Pose-Invariant Face Recognition Using 3D Multi-Depth Generic Elastic Models</td>
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<td>216</td>
<td>OuluVS2: a multi-view audiovisual database for non-rigid mouth motion analysis</td>
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<td>Fine-grained Evaluation on Face Detection in the Wild</td>
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<td>Report on the FG 2015 Video Person Recognition Evaluation</td>
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<td>Cross-Cultural Detection of Depression from Nonverbal Behaviour</td>
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<td>Robust Multimodal Recognition via Multitask Multivariate Low-Rank Representations</td>
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<td>Exploration of the Correlations of Attributes and Features in Faces</td>
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<td>Predicting Video-Conferencing Conversation Outcomes Based on Modeling Facial Expression Synchronization</td>
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<td>51</td>
<td>Inference of Personality Traits and Affect Schedule by Analysis of Spontaneous Reactions to Affective Videos</td>
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<td>Automatic 3D Facial Expression Recognition using Geometric Scattering Representation</td>
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<td>Hand Detection in American Sign Language Depth Data Using Domain-Driven Random Forest Regression</td>
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**Journal Paper Poster Session II (17:15-19:00) - papers not in Spotlight B (Wednesday)**

- Context-sensitive dynamic ordinal regression for facial action unit intensity estimation (Journal paper)
- Gaussian Mixture Model based Estimation of the Neutral Face Shape for Emotion Recognition (Journal paper)
- Transform-Invariant PCA: A Unified Approach to Fully Automatic Face Alignment, Representation, and Recognition (Journal paper)
- 3-D Facial Landmark Localization With Asymmetry Patterns and Shape Regression from Incomplete Local Features (Journal paper)
- Self-adaptive algorithm for segmenting skin regions (Journal paper)
- On continuous user authentication via typing (Journal paper)
- A Two-Layer Framework for Piecewise Linear Manifold-Based Head Pose Estimation (Journal paper)

**Demo session II (17:15-19:00) - Wednesday**

- 3D Interaction Design: Increasing the Stimulus-Response Correspondence by using Stereoscopic Vision
- Real-Time Dense 3D Face Alignment from 2D Video with Automatic Facial Action Unit Coding
- Controllable Face Privacy
- Semi-transparent mirror with hidden camera to assess human emotions
- A Live Video Analytic System for Affect Analysis in Public Space
- 3D Face Recognition Utilizing a Low-Cost Depth Sensor
- Faces and Thoughts : an Empathic Dairy
- Let me Tell You about Your Personality! Real-time Personality Prediction from Nonverbal Behavioural Cues
- Who do you want to be? Real-time Face Swap
- Real-Time Facial Character Animation
- IntraFace

**Exhibition session II (8:30-19:00) - Wednesday**

- EmotionID
- 3dMD
- DI4D
## Thursday

**Keynote 3: 8:30-9:30**  
Louis-Philippe Morency

**Session 11: Pose & Gesture (9:30-10:30) - Thursday**  
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<td>47</td>
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</table>

**Coffee Break: 10:30-11:00**

**Session 12: Panel session (11:00-12:20): The Promise and Perils of Found Data (Moderator: Jonathon Phillips) - Thursday**

**Lunch Break: 12:30-14:00**  
*Lunch-break Talks - industry*

**Session 13: Poster Highlights (14:00-15:00) - Thursday**  
18 posters (3 minutes per poster)

**Session 14: Gait & Action (15:00-16:00) - Thursday**  
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**Coffee Break: 16:00-16:15**

**Session 15: Special session Evaluation/Mouth motion analysis (16:15-17:15) - Thursday**  
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**Poster Session III (17:15-19:00) - papers from Spotlight C (Thursday)**

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<td>Dynamic facial expression recognition by joint static and multi-time gap transition classification</td>
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<td>Multi-level classification of emotional body expression</td>
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<td>To Skip or not to Skip? A Dataset of Spontaneous Affective Response of Online Advertising (SARA) for Audience Behavior Analysis</td>
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<td>Enhanced facial expression recognition by age</td>
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<td>How much training data for facial action unit detection?</td>
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<td>Event Detection: Ultra Large-scale Clustering of Facial Expressions</td>
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<td>Siamese Neural Network based Similarity Metric for Inertial Gesture Classification and Rejection</td>
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<td>Hierarchical 3D Kernel Descriptors for Action Recognition Using Depth Sequences</td>
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<td>Efficient and Effective Human Action Recognition in Video through Motion Boundary Description with a Compact Set of Trajectories</td>
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<td>3D Interaction Design: Increasing the Stimulus-Response Correspondence by using Stereoscopic Vision</td>
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<td>Sports Videos in the Wild (SVW): A Video Dataset for Sports Analysis</td>
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<td>A New Hand Representation Based on Kernels for Hand Posture Recognition</td>
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<td>Combining Discriminative and Model Based Approaches for Hand Pose Estimation</td>
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<td>Fast Sign Language Recognition Benefited From Low Rank Approximation</td>
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<td>Optical Flow based Lip Reading using Non Rectangular ROI and Head Motion Reduction</td>
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**Doctoral Consortium Poster Session (17:15-19:00) - papers not in Spotlight C (Thursday)**

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<tr>
<td>Spontaneous Facial Expression Analysis Based on Temperature Changes and Head Motions (DC paper)</td>
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<tr>
<td>Hand Detection in American Sign Language Depth Data Using Domain-Driven Random Forest Regression (DC paper)</td>
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<td>Perinasal Indicators of Malevolence (DC paper)</td>
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<td>Active Non-rigid ICP Algorithm (DC paper)</td>
<td>239</td>
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<tr>
<td>A Noise Reduction Framework for Face Recognition in Videos (DC paper)</td>
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<td>Expression Robust 3D Face Recognition by Matching Multi-component Local Shape Descriptors on the Nasal and Adjoining Cheek Regions (DC paper)</td>
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<td>Facial Expression Recognition under a Wide Range of Head Poses (DC paper)</td>
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**Demo session III (17:15-19:00) - Thursday**
3D Interaction Design: Increasing the Stimulus-Response Correspondence by using Stereoscopic Vision

Real-Time Dense 3D Face Alignment from 2D Video with Automatic Facial Action Unit Coding

Controllable Face Privacy

Semi-transparent mirror with hidden camera to assess human emotions

A Live Video Analytic System for Affect Analysis in Public Space

3D Face Recognition Utilizing a Low-Cost Depth Sensor

Faces and Thoughts : an Empathic Dairy

Let me Tell You about Your Personality! Real-time Personality Prediction from Nonverbal Behavioural Cues

Who do you want to be? Real-time Face Swap

Real-Time Facial Character Animation

IntraFace

Exhibition session III (8:30-19:00) - Thursday

EmotionID

3dMD

DI4D
Opening session

Keynote: 8:30-9:30
Takeo Kanade

Session 1: Facial Biometrics (9:30-10:30) - Tuesday

Lessons from Collecting a Million Biometric Samples
Expression Robust 3D Face Recognition by Matching Multi-component Local Shape Descriptors on the Nasal and Adjoining Cheek Regions
Shared Representation Learning for Heterogeneous Face Recognition

Coffee Break: 10:30-11:00

Session 2: 10 Year Vision session (11:00-12:20) - Tuesday

Lunch Break: 12:20-14:00
Lunch-break Talks - industry

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20 posters (3minutes per poster)

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Leveraging Geometry and Appearance Cues for Recognizing Family Photos
Realistic Inverse Lighting from a Single 2D Image of a Face, Taken Under Unknown and Complex Lighting
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Coffee Break: 16:00-16:15

Session 5: Face Technology Applications (16:15-17:15) - Tuesday

Dense 3D Face Alignment from 2D Videos in Real-Time
Detecting Bids for Eye Contact Using A Wearable Camera
Hierarchical Hybrid Statistic based Video Binary Code and Its Application to Face Retrieval in TV-Series

Poster Session I (17:15-19:00) - papers from Spotlight A (Tuesday)

IntraFace
Age Estimation via Unsupervised Neural Networks
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Journal Paper Poster Session I (17:15-19:00) - papers not in Spotlight A (Tuesday)

BAUM-2: A Multilingual Audio-Visual Affective Face Database (Journal paper)
Coupled Discriminative Feature Learning for Heterogeneous Face Recognition (Journal paper)
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Demo session I (17:15-19:00) - Tuesday

3D Interaction Design: Increasing the Stimulus-Response Correspondence by using Stereoscopic Vision
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Exhibition session I (8:30-19:00) - Tuesday
EmotionID
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DI4D

Wednesday

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Coffee Break: 10:30-11:00

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19 posters (3 minutes per poster)

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Action Unit Intensity Estimation using Hierarchical Partial Least Squares

Coffee Break: 16:00-16:15

Session 10: Affect & Expression III (16:15-17:15) - Wednesday
Variable-state Latent Conditional Random Fields for Facial Expression Recognition and Action Unit Detection
Three Dimensional Binary Edge Feature Representation for Pain Expression Analysis
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Poster Session II (17:15-19:00) - papers from Spotlight B (Wednesday)

Domain Adaptive Sparse Representation-Based Classification
Correcting Radial and Perspective Distortion by Using Face Shape Information
Improved Weak Labels using Contextual Cues for Person Identification in Videos
The Beauty of Capturing Faces: Rating the Quality of Digital Portraits
Adaptive LPQ: An Efficient Descriptor for Blurred Face Recognition
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Hand Detection in American Sign Language Depth Data Using Domain-Driven Random Forest Regression
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Gaussian Mixture Model based Estimation of the Neutral Face Shape for Emotion Recognition (Journal paper)
Transform-Invariant PCA: A Unified Approach to Fully Automatic Face Alignment, Representation, and Recognition (Journal paper)
3-D Facial Landmark Localization With Asymmetry Patterns and Shape Regression from Incomplete Local Features (Journal paper)
Self-adaptive algorithm for segmenting skin regions (Journal paper)
A Two-Layer Framework for Piecewise Linear Manifold-Based Head Pose Estimation (Journal paper)

Demo session II (17:15-19:00) - Wednesday
3D Interaction Design: Increasing the Stimulus-Response Correspondence by using Stereoscopic Vision
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Semi-transparent mirror with hidden camera to assess human emotions
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Exhibition session II (8:30-19:00) - Wednesday
EmotionID
3dMD
DI4D

Thursday

Keynote 3: 8:30-9:30
Louis-Philippe Morency

Session 11: Pose & Gesture (9:30-10:30) - Thursday
A Random Forest Approach to Segmenting and Classifying Gestures
Multi-sensor System for Driver's Hand-Gesture Recognition
Human Pose Search using Deep Poselets

Coffee Break: 10:30-11:00

Session 12: Panel session (11:00-12:20): The Promise and Perils of Found Data (Moderator: Jonathon Phillips) - Thursday

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Lunch-break Talks - industry

Session 13: Poster Highlights (14:00-15:00) - Thursday
18 posters (3 minutes per poster)

Session 14: Gait & Action (15:00-16:00) - Thursday
Multi-view Discriminant Analysis with Tensor Representation and Its Application to Cross-view Gait Recognition
Modeling Transition Patterns Between Events for Temporal Human Action Segmentation and Classification
Automated Prediction and Analysis of Job Interview Performance: The Role of What You Say and How You Say It

Coffee Break: 16:00-16:15

Session 15: Special session Evaluation/Mouth motion analysis (16:15-17:15) - Thursday
The FG 2015 Kinship Verification in the Wild Evaluation
Active Nonrigid ICP Algorithm
A Survey on Mouth Modeling and Analysis for Sign Language Recognition

Poster Session III (17:15-19:00) - papers from Spotlight C (Thursday)
Exploiting Sparsity and Co-occurrence Structure for Action Unit Recognition
Dynamic facial expression recognition by joint static and multi-time gap transition classification
Multi-level classification of emotional body expression
To Skip or not to Skip? A Dataset of Spontaneous Affective Response of Online Advertising (SARA) for Audience Behavior Analysis
Enhanced facial expression recognition by age
How much training data for facial action unit detection?
Event Detection: Ultra Large-scale Clustering of Facial Expressions
Siamese Neural Network based Similarity Metric for Inertial Gesture Classification and Rejection
Multiple Feature Representations from Multi-Layer Geometric Shape for Hand Gesture Analysis
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Efficient and Effective Human Action Recognition in Video through Motion Boundary Description with a Compact Set of Trajectories | 103
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Combining Discriminative and Model Based Approaches for Hand Pose Estimation | 149
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Optical Flow based Lip Reading using Non Rectangular ROI and Head Motion Reduction | 232

**Doctoral Consortium Poster Session (17:15-19:00) - papers not in Spotlight C (Thursday)**

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**Demo session III (17:15-19:00) - Thursday**

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**Exhibition session III (8:30-19:00) - Thursday**

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