

CAIP2017

17th international Conference on Computer Analysis of Images and Patterns

22-24 August, 2017

 Ystad, Sweden

DAY 1

Monday, 21st

 Silver Suite

13:00-14:00	Lunch
14:00-15:30	Tutorial
15:30-16:00	Coffee
16:00-17:30	Tutorial

DAY 2

Tuesday, 22nd

 Bolsa Beach

08:30-09:30	Registration
09:30-09:50	Welcome, Practical Information
09:50-10:50	Session 1: Invited Speaker Title: Getting to Know your Objects Markus Vincze
10:50-11:20	Coffee
11:20-12:20 <i>Chair</i> Reinhard Klette	Session 2: Vision for Robotics (3 talks) <ul style="list-style-type: none">- A Novel Approach for Mobile Robot Localization in Topological Maps using Classification with Reject Option from Structural Co-occurrence Matrix- Robust Features for Snapshot Hyperspectral Terrain-Classification- Improved Stixel Estimation based on Transitivity Analysis in Disparity Spaces
12:20-13:20	Lunch
13:20-14:40 <i>Chair</i> Rudolf Mester	Session 3: Motion and Tracking (4 talks) <ul style="list-style-type: none">- Mixing Hough and Color Histogram Models for Accurate Real-Time Object Tracking- DCCO: Towards Deformable Continuous Convolution Operators for Visual Tracking- Two-Letters-Key Keyboard for Predictive Touchless Typing with Head Movements- Recognizing Interactions Between People from Video Sequences

 Silver Suite

14:40-15:00	Session 4: Paper Highlight Presentations (14 posters)
15:00-15:30	Coffee
15:30-16:30 <i>Chair</i> Atsushi Imiya	Session 5: Segmentation (3 talks) <ul style="list-style-type: none">- Deep Projective 3D Semantic Segmentation- Detection of curved lines with B-COSFIRE filters: A case study on crack delineation- Motion-coherent Affinities for Hypergraph based Motion Segmentation
16:30-18:00	Session 6: Poster Session I <ul style="list-style-type: none">- Robust Long-Term Aerial Video Mosaicking by Weighted Feature-based Global Motion Estimation- Multilinear Methods for Spatio-Temporal Image Recognition- On the Essence of Unsupervised Detection of Anomalous Motion in Surveillance Videos- Deep Boltzmann Machines Using Adaptive Temperatures- Twin Deep Convolutional Neural Network for Example-based Image Colorization- Optimization of Facade Segmentation Based on Layout Priors- Development of a new fractal algorithm to predict quality traits of MRI loins- A visual inspection method based on periodic feature for wheel mark defect on wafer backside- Retinal Vessel Segmentation using Matched Filter with Joint Relative Entropy- Sparse-MVRVMs Tree for Fast and Accurate Head Pose Estimation in the Wild- On the Use of the Tree Structure of Depth Levels for Comparing 3D Object Views- The Classic Wave Equation can do Shape Correspondence
19:30-22:00	Reception Dinner with Entertainment

DAY 3

Wednesday, 23rd

 Bolsa Beach

08:45-09:00	Registration
08:30-09:30	Session 7: Invited Speaker Title: Solving Perceptual Quality Issues of Streaming Video Alan Bovik
09:30-10:30 <i>Chair</i> Rebeca Marfil	Session 8: Image/Video Indexing and Retrieval (3 talks) <ul style="list-style-type: none"> - A Hypergraph-based Reranking Model for retrieving diverse social images - Learning a Limited Text Space for Cross-Media Retrieval - Speeding-Up Graph-based Keyword Spotting by Quadtree Segmentations
10:30-11:00	Coffee
11:00-12:00 <i>Chair</i> Bjarne Ersböll	Session 9: Shape Representation and Analysis (3 talks) <ul style="list-style-type: none"> - Ellipse Detection for Visual Cyclists Analysis "In the Wild" - Visual Landmark based Road Course Estimation with Black Box Variational Inference - Multiple Reflection Symmetry Detection via Linear-Directional Kernel Density Estimation
12:00-13:20	Lunch
13:20-14:40 <i>Chair</i> Xiaoyi Jiang	Session 10: Biomedical Image Analysis (4 talks) <ul style="list-style-type: none"> - CNN-based Background Subtraction for Long-Term in-vial FIM Imaging - Bayesian diffusion tensor estimation with spatial priors - Analysis of Multilinear Subspaces based on Geodesic Distance - Streaming Algorithm for Euler Characteristic Curves of Multidimensional Images
14:40-15:00	Session 11: Paper Highlight Presentations (14 posters)

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	Session 12: Poster Session II <ul style="list-style-type: none"> - A New Scoring Method for Directional Dominance in Images - A Multilayer Backpropagation Saliency Detection Algorithm Based on Depth Mining - Laplacian Deformation with Symmetry Constraints for Reconstruction of Defective Skulls - A New Image Contrast Enhancement Algorithm using Exposure Fusion Framework - Quaternionic Flower Pollination Algorithm - Automated Cell Nuclei Segmentation in Pleural Effusion Cytology Using Active Appearance Model - Parkinson's Disease Identification using Restricted Boltzmann Machines - Attention-Based Two-Phase Model for Video Action Detection - Learning Discriminative Representation for Skeletal Action Recognition - Progressive Probabilistic Graph Matching with Local Consistency Regularization - Automatic Detection of Utility Poles using the Bag of Visual Words method for different Feature Extractors - Deep Objective Image Quality Assessment - Enhancing Textbook Study Experiences with Pictorial Bar-codes and Augmented Reality - Stacked Progressive Auto-encoders for Clothing-invariant Gait Recognition
15:00-16:30	
15:30-16:00	Coffee
17:00-22:00	Conference Dinner + Excursion

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DAY 4

Thursday, 24th

 Bolsa Beach

08:30-09:30	Session 13: Invited Speaker Title: Machine Learning Meets Image Analysis: From looking inside ourselves to gazing at the stars Christian Igel
09:30-10:30 <i>Chair</i> Pedro Real	Session 14: Biometrics (3 talks) <ul style="list-style-type: none"> - An Improved Scheme of Local Directional Pattern for Texture Analysis with an Application to Facial Expressions - A Missing Singular Point Resistant Fingerprint Classification Technique, Based on Directional Patterns - Indexing of Single and Multi-instance Iris Data Based on LSH-Forest and Rotation Invariant Representation
10:30-11:00	Coffee
11:00-12:20 <i>Chair</i> Jörgen Ahlberg	Session 15: Machine Learning (4 talks) <ul style="list-style-type: none"> - Clustering-Based, Fully Automated Mixed-Bag Jigsaw Puzzle Solving - A Violence Detection Approach Based on Spatio-Temporal Hypergraph Transition - Blur Parameter Identification Through Optimum-Path Forest - Real-Time Human Pose Estimation via Cascaded Neural Networks Embedded with Multi-task Learning
12:20-13:20	Lunch
13:20-14:00 <i>Chair</i> Chokri Ben Amar	Session 16: Image Restoration I (2 talks) <ul style="list-style-type: none"> - Multi-View Separation of Background and Reflection by Coupled Low-Rank Decomposition - Fast and easy blind deblurring using an inverse filter and PROBE
14:00-14:20	Session 17: Paper Highlight Presentations (15 posters)
14:20-15:50	Session 18: Poster Session III <ul style="list-style-type: none"> - Feature Selection on Affine Moment Invariants in Relation to Known Dependencies - GMM Supervectors for Limited Training Data in Hyperspectral Remote Sensing Image Classification

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14:20-15:50	<ul style="list-style-type: none"> - A New Shadow Removal Method using Color-Lines - Improving Semantic Segmentation with Generalized Models of Local Context - An Image-matching Method using Template Updating based on Statistical Prediction of Visual Noise - Robust Accurate Extrinsic Calibration of Static Non-overlapping Cameras - An Integrated Multi-scale Model for Breast Cancer Histopathological Image Classification with Joint Colour-Texture Features - Multi-label poster classification into genres using different problem transformation methods - Hybrid Cascade Model for Face Detection in the Wild Based on Normalized Pixel Difference and a Deep Convolutional Neural Network - Labeling color 2D digital images in theoretical near logarithmic time - What is the best depth-map compression for Depth Image Based Rendering? - Nonlinear mapping based on spectral angle preserving principle for hyperspectral image analysis - Object triggered egocentric video summarization - 3D motion consistency analysis for segmentation in 2D video projection
15:00-15:30	Coffee
15:50-16:50 <i>Chair</i> Chokri Ben Amar	Session 19: Image Restoration II (3 talks) <ul style="list-style-type: none"> - Space-variant Gabor decomposition for filtering 3D medical images - Learning Based Single Image Super Resolution using Discrete Wavelet Transform - Directional Total Variation Based Image Deconvolution with Unknown Boundaries
16:50-17:00	Closing

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DAY 5

Friday, 25th

* Preliminary (subject to change)

9:15-17:00 *	Workshop REACTS
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