

Subspace 2007 Program

9:00-9:30 Registration and poster preparation

9:30-9:40 Opening

9:40-10:40 Oral session 1 *Tracking and pose estimation* Chair D. Suter and S. Uchida

SS01 An Adaptive Shape Subspace Model for Level Set-Based Object Tracking, Xue Zhou, Weiming Hu, Xi Li (National Laboratory of Pattern Recognition Institute of Automation)

SS02 Upgrading Eigenspace-based Prediction using Null Space and its Application to Path Prediction, Yuji Shinomura (Hiroshima Univ.), Toru Tamaki (Hiroshima Univ.), Toshiyuki Amano (NAIST), Kazufumi Kaneda (Hiroshima Univ.)

SS03 The Secret of Rotating Object Images – Using Cyclic Permutation for View-based Pose Estimation –, Toru Tamaki (Hiroshima Univ.), Toshiyuki Amano (NAIST), Kazufumi Kaneda (Hiroshima Univ.)

10:40-10:50 Coffee break

10:50-11:50 Oral session 2 *Face and object recognition* Chair S. Sato and H. Sakano

SS06 Nonlinear K-subspaces based Appearances Clustering of Objects under Varying Illumination Conditions, Xi Li, Kazuhiro Fukui (Univ. of Tsukuba)

SS13 Face Recognition based on Whitening Transformation of Distribution of Subspaces, Tomokazu Kawahara, Masashi Nishiyama, Tatsuo Kozakaya, Osamu Yamaguchi (Toshiba)

SS16 Face Recognition Using Mutual Projection of Feature Distributions, Akira Inoue, Atsushi Sato (NEC)

11:50-12:00 Coffee break

12:00-13:00 Oral session 3 *Theory* Chair S. Omachi and A. Sato

SS04 Scale-based Principal Component Analysis of Point Cloud, Tomoya Sakai, Atsushi Imiya (Chiba Univ.)

SS09 Kernel and Learning Local Manifold Matching for Image Classification, Seiji Hotta (Tokyo Univ. of Agri. and Tech.)

SS15 Regularization vs. Rank Reduction in Quadratic Classifiers, Yoshikazu Washizawa (RIKEN)

13:00-15:30 Poster session and lunch (Conjunction with Workshop on Multi-dimensional and Multi-view Image Processing)

- SS01** An Adaptive Shape Subspace Model for Level Set-Based Object Tracking, Xue Zhou, Weiming Hu, Xi Li (National Laboratory of Pattern Recognition Institute of Automation)
- SS02** Upgrading Eigenspace-based Prediction using Null Space and its Application to Path Prediction, Yuji Shinomura (Hiroshima Univ.), Toru Tamaki (Hiroshima Univ.), Toshiyuki Amano (NAIST), Kazufumi Kaneda (Hiroshima Univ.)
- SS03** The Secret of Rotating Object Images – Using Cyclic Permutation for View-based Pose Estimation –, Toru Tamaki (Hiroshima Univ.), Toshiyuki Amano (NAIST), Kazufumi Kaneda (Hiroshima Univ.)
- SS04** Scale-based Principal Component Analysis of Point Cloud, Tomoya Sakai, Atsushi Imiya (Chiba Univ.)
- SS05** Kernel Eigenspace for Detecting and Separating Multi-class Non-linear Objects, Masud Rahman (TokyoTech Australia), Anand Santhanam (Australian National Univ.), Seiji Ishikawa (Kyushu Inst. of Tech.)
- SS06** Nonlinear K-subspaces based Appearances Clustering of Objects under Varying Illumination Conditions, Xi Li, Kazuhiro Fukui (Univ.of Tsukuba)
- SS07** Face Recognition based on Holistic Information and Minimum Mahalanobis Classifier, I Gede Pasek Suta Wijaya, Keiichi Uchimura, Zhencheng Hu (Kumamoto Univ.)
- SS08** Spherical PCA with Euclideanization, Jun Fujiki, Shotaro Akaho (AIST)
- SS09** Kernel and Learning Local Manifold Matching for Image Classification, Seiji Hotta (Tokyo Univ. of Agri. and Tech.)
- SS10** A Study on PCA-based Fourier Descriptor in Complete and Incomplete Contour Representations, Li Tian, Sei-ichiro Kamata (Waseda Univ.)
- SS11** ICA-Based Analysis of Temporal Image Sequence, Naoya Ohnishi, Atsushi Imiya (Chiba Univ.)
- SS12** A Supervised Method to Chart Multiple Manifolds, Dan Zhang (Tsinghua Univ.), Yangqiu Song (Tsinghua Univ.), Qifeng Qiao (Tsinghua Univ.), Zhenwei Shi (Beihang Univ.), Changshui Zhang (Tsinghua Univ.)
- SS13** Face Recognition based on Whitening Transformation of Distribution of Subspaces, Tomokazu Kawahara, Masashi Nishiyama, Tatsuo Kozakaya, Osamu Yamaguchi (Toshiba)
- SS14** Personal Favorite Scene Selection from Broadcast Soccer Video using Eigenspace Method, Masao Izumi (Osaka Prefecture Univ.)

SS15 Regularization vs. Rank Reduction in Quadratic Classifiers, Yoshikazu Washizawa(RIKEN)

SS16 Face Recognition Using Mutual Projection of Feature Distributions, Akira Inoue, Atsushi Sato (NEC)

15:30-16:30 SS00 Tutrial "The Engineer's Guide to The Subspace Method", *Yoshiaki Kurosawa* (Toshiba Solutions) Chair A. Maki and K. Fukui

16:30-16:35 Closing