Final Program

IAPR MVA2009

IAPR CONFERENCE ON MACHINE VISION APPLICATIONS

May 20-22, 2009
Keio University, Yokohama, JAPAN

Topics
Machine Vision and its Applications

IAPR Invited Speakers

Dr. Cordelia SCHMID (INRIA)
"Large Scale Image Search"

Prof. Kyros KUTULAKOS (University of Toronto)
"Focal Stack Photography: High-Performance
Photography with a Conventional Camera"

Prof. Ryosuke SHIBASAKI (The University of Tokyo)
"Integration of Earth Observation Data: Challenge of GEOSS
(Global Earth Observation System of Systems)"

Sponsored by

MVA Organization
IAPR TC-8
Keio University

In cooperation with

The Information Processing Society of Japan
The Institute of Electrical Engineers of Japan
The Institute of Electronics, Information and Communication Engineers
The Institute of Image Information and Television Engineers
The Institute of Systems, Control and Information Engineers
The Institute of Image Electronics Engineers of Japan
The Japanese Society for Artificial Intelligence
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The Robotics Society of Japan
The Society of Instrument and Control Engineers
The Virtual Reality Society of Japan

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Final Program

Wednesday, May 20, 2009

Registration (8:30 – 9:00)
Opening Session (9:00 – 9:20)

Session 1: Interaction & Virtual Reality (9:20 – 10:20)
Chairs: Julien Pilet and Yoichi Sato

1-1 **Indoor Map Display Method Using Mixed Reality**
Satoshi Hisanaga and Takaaki Kase, Japan

1-2 **Texture Overlay onto Flexible Object with PCA of Silhouettes and K-Means Method for Search into Database**
Hiroshi Tanaka and Hideo Saito, Japan

1-3 **Real-time Motion-based Gesture Recognition Using the GPU**
Mark Bayazit, Alex Couture-Beil and Greg Mori, Canada

Break (10:20 – 10:40)

Session 2: Motion & Multiview (10:40 – 12:00)
Chairs: Antonis Argyros and Ikuko Shimizu

2-1 **Automatic Gigapixel Mosaicing in Large Scale Unstructured Underground Environments**
Daniela Craciun, Nicolas Paparoditis and Francis Schmitt, France

2-2 **Image Rectification for Robust Matching of Car-mounted Camera Images**
Naoko Enami, Norimichi Ukita and Masatsugu Kidode, Japan

2-3 **Self Image Rectification for Uncalibrated Stereo Video with Varying Camera Motions and Zooming Effects**
Chia-Ming Cheng, Shang-Hong Lai and Shyh-Haur Su, Taiwan

2-4 **A New Method for Projector Calibration Based on Visual Servoing**
Jérémie Mosnier, Francois Berry and Omar Ait-Aider, France

Lunch (12:00 – 13:00)

Session 3: Poster Session 1 (13:00 – 14:30)

3-1 **New System Implementation on SIMD Processor for Reliable Fingerprint Singularity Detection by Singular Candidate Method**
Daisuke Tomizawa, Yuta Hasegawa, Tomohiko Ohtsuka and Hiroyuki Aoki, Japan

3-2 **Detection of Abnormal Objects in a Scene Based on Local Features**
Junya Kobayashi and Keiichi Yamada, Japan

3-3 **Real-Time Uncharacteristic-Part Tracking Based on Points Tracking**
Norimichi Ukita, Akira Makino and Masatsugu Kidode, Japan

3-4 **Automatic Extraction of Layer Structure for Retina in OCT Image Using Morphological Operation and Active Net**
Ai Yamakawa, Shinji Tsuruoka, Hiroharu Kawanaka, Fumio Okuyama and Toshiki Yagi, Japan

3-5 **Human Behavior Analysis Using Multiple 2D Features and Multicategory Support Vector Machine**
Hao-Cheng Mo, Jin-Jang Leou and Cheng-Shian Lin, Taiwan

3-6 **Exploitation of 3D Information for Directing Visual Attention and Object Recognition**
Oytun Akman and Pieter Jonker, Netherlands

3-7 **Inter Mode Decision Algorithm For Advanced Video Coding**
Fang-Hsuan Cheng and Yea-Shuan Huang, Taiwan

3-8 **Large-Scale Stereo for Improvement of 3D Measurement Accuracy in Gaze-Observation**
Masafumi Nakagawa, Yoshihiro Kawai and Fumiaki Tomita, Japan

3-9 **An Active Appearance Model with a Derivative-Free Optimization**
Jixia Zhang, Franck Davoine and Chunhong Pan, China

3-10 **Image Forgery Detection Based on Quantization Table Estimation**
Guo-Shiang Lin, Min-Kuan Chang and You-lin Chen, Taiwan

3-11 **A Binarization Method for Crack Detection in a Road Surface Image with the Fractal Dimension**
Hiromi Yoshida and Naoki Tanaka, Japan

3-12 **Building a Multi-Touch Display Based on Computer Vision Techniques**
Damien Michel, Antonis Argyros, Dimitris Grammenos, Xenophon Zabulis and Thomas Sarmis, Greece

3-13 **Synchronization of Full-View Image and GPS Data for Route Map Building**
Ying Hai, Shigang Li and Yuto Mizuno, Japan

3-14 **Study of Early Screening Method of Dementia and Its Systemization**
Youhei Kondou, Mikiko Kawasumi, Osami Yamamoto, Muneo Yamada, Shin Yamamoto and Tomoaki Nakanno, Japan

3-15 **Face Blurring for Privacy in Street-level Geoviewers Combining Face, Body and Skin Detectors**
Alexandre Devaux, Nicolas Paparoditis, Frédéric Precioso and Bertrand Cannelle, France

3-16 **Vision-Based Real-Time Monitoring on the Behavior of Fish School**
Boon Fong Chew, How-Lung Eng and Myo Thida, Singapore

3-17 **Design and Evaluation of Features That Best Define Text in Complex Scene Images**
Navid Mavaddat, Tae-Kyun Kim and Roberto Cipolla, Australia

3-18 **OCR Based Thresholding**
Yves Rangoni, Faisal Shafait and Thomas M. Breuel, Germany

3-19 **A 3.2 kHz, Stereo Sensing Module Using Two Profile Sensors**
Yoshinori Matsui, Munenori Takumi, Haruyoshi Toyoda, Naohisa Mukozaka, Atsushi Ihori, Yukinobu Sugiyama and Seiichiro Mizuno, Japan

3-20 **Video-Based Face Recognition Using a Probabilistic Graphical Model**
Yi-Chia Chan, Cheng-Chieh Chiang, Kai-Ming Wang and Greg C. Lee, Taiwan

3-21 **A Comparative Study of Hierarchical Matching Algorithms for Face Recognition**
Hajar Momeni, Mohammad T. Sadeghi and Hamid R. Abutalebi, Iran

3-22 **1,000-fps Visual Feedback Control of an Active Vision System over a High-Load Network**
Daisuke Wako, Shingo Kagami and Koichi Hashimoto, Japan

3-23 **Image Based View Localization System Retrieving from a Panorama Database by SURF**
Naoyuki Yazawa, Hideaki Uchiyama, Hideo Saito, Myriam Servières and Guillaume Moreau, Japan

3-24 Hand Shape Recognition Based on Kernel Orthogonal Mutual Subspace Method
Yasuhiro Ohkawa and Kazuhiro Fukui, Japan

3-25 Application of Co-Occurrence Frequency Image
Takayuki Fujiwara, Hiroyasu Koshimizu and Manabu Hashimoto, Japan

3-26 Improved Matching Accuracy in Traffic Sign Recognition by Using Different Feature Subspaces
Arihito Ihara, Hironobu Fujiyoshi, Masanari Takagi, Hiroaki Kumon and Yukimasa Tamatsu, Japan

3-27 Object Pose Estimation Using Patch-Duplet/SIFT Hybrids
Fredrik Viksten, Sweden

Session 4: Invited Talk 1 (14:30 – 15:30)
Chair: Ken-ichi Maeda
4-1 Large Scale Image Search
Dr. Cordelia Schmid, INRIA, France

Break (15:30 – 15:50)

Session 5: Visual Surveillance (15:50 – 17:50)
Chairs: Shang-Hong Lai and Tatsuhiko Kagehiro
5-1 Probabilistic BPRRC: Robust Change Detection against Illumination Changes and Background Movements
Kentaro Yokoi, Japan

5-2 People Re-Identification by Means of a Camera Network Using a Graph-Based Approach
Dung-Nghi Truong Cong, Louahdi Khoudour, Catherine Achard and Philippe Phothisane, France

5-3 Incident Detection Based on Dynamic Background Modeling and Statistical Learning Using Spatio-Temporal Features
Yasuhiro Murai, Hironobu Fujiyoshi and Masato Kazui, Japan

5-4 Human Head Tracking Based on Inheritance and Evolution Concept
Yi Hu and Tetsuya Takamori, Japan

5-5 Unsupervised Abnormal Behavior Detection for Real-Time Surveillance Using Observed History
Tsz-Ho Yu and Yiu-Sang Moon, Hong Kong

5-6 Abnormal Spatial Event Detection and Video Content Searching in a Multi-Camera Surveillance System
Chueh-Wei Chang, Ti-Hua Yang and Yu-Yu Tsao, Taiwan

Thursday, May 21, 2009

Session 6: Feature Extraction & Pattern Recognition (9:00 – 10:20)
Chairs: Tati Rajab Mengko and Hiroshi Ishikawa
6-1 Statistical Reach Feature Method and Its Application to Template Matching
Ryushi Ozaki, Yutaka Satoh, Kenji Iwata and Katsuhiko Sakaue, Japan

6-2 Design of Feature Extraction Operators for Use on Biologically Motivated Hexagonal Image Structures
Sonya Coleman, Bryan Scotney and Bryan Gardiner, United Kingdom

6-3 An Appearance Based Fast Linear Pose Estimation
Toshiyuki Amano and Toru Tamaki, Japan

6-4 Semi-Supervised Spectral Mapping for Enhancing Separation between Classes
Weiwei Du and Kiichi Urahama, Japan

Break (10:20 – 10:40)

Session 7: Object Recognition (10:40 – 12:00)
Chairs: Igor Gurov and Takeshi Masuda
7-1 Keypoint Extraction and Selection for Object Recognition
Maja Rudinac, Boris Lenseigne and Pieter Jonker, Netherlands

7-2 Scene Classification Using Generalized Local Correlation
Hideki Nakayama, Tatsuya Harada and Yasuo Kuniyoshi, Japan

7-3 Unsupervised Learning of Characteristic Object Parts from Videos
Henrik Skibbe, Alexandra Teynor and Hans Burkhardt, Germany

7-4 Color Image Classification Using Locally Linear Manifolds and Learning
Kazuki Kondo and Seiji Hotta, Japan

Lunch (12:00 – 13:00)

Session 8: Poster Session 2 (13:00 – 14:30)
8-1 Video Watermarking Algorithm Based on Pseudo 3D DCT and Quantization Index Modulation
Hui-Yu Huang, Cheng-Han Yang and Wen-Hsing Hsu, Taiwan

8-2 Overlap Vehicle Detection by Tracking Horizontal Lines
Kazunori Onoguchi, Japan

8-3 Measuring Conicity from Shape Boundaries
Milos Stojmenovic and Amiya Nayak, Canada

8-4 Image Based Search System Using Hierarchical Object Category Recognition Technique
Takuya Minagawa and Hideo Saito, Japan

8-5 Improvement of Particle Filtering for Intersection of Targets with Similar Patterns
Naoki Enda, Shinji Fukui, Yuji Iwahori and Robert J. Woodham, Japan

8-6 Voting Based Video Classification Using Clustering and Learning
Kei Kikuchi and Seiji Hotta, Japan

8-7 Algorithmic Considerations for Real-Time Stereo Vision Applications
Kristian Ambrosch, Christian Zinner and Wilfried Kubinger, Austria

8-8 Behavior Recognition with HMM and Feature Analysis using a Wide-View Camera and a PTZ camera
Norimichi Ukita, Akihito Kotera and Masatsugu Kidode, Japan

8-9 A Hardware Accelerator with Variable Pixel Representation & Skip Mode Prediction for Feature Point Detection Part of SIFT Algorithm
Jingbang Qiu, Tianci Huang, Yiqing Huang and Takeshi Ikenaga, Japan

8-10 Segmentation of Femoral Head from CT after Femoral Neck Fracture
Jan Horáček, Lukáš Maršálek, Martin Horák, Philipp Slusallek and Josef Pelikán, Czech Republic

8-11 Medial Features for Superpixel Segmentation
David Engel, Luciano Spinello, Rudolph Triebel, Roland Siegwart, Heinrich H. Bülthoff and Cristóbal Curio, Germany

8-12 Face Recognition by Combining Complementary Matchings of Single Image and Sequential Images
Yea-Shuan Huang, Wei-Cheng Liu and Fang-Hsuan Cheng, Taiwan

8-13 Recognition of Lung Cancers on CT Using 3-D Object Models of Different Classes
Hotaka Takizawa, Shinji Yamamoto and Tsuyoshi Shiina, Japan

8-14 Model-Based 3D Object Tracking with Online Texture Update

Keisuke Tateno, Daisuke Kotake and Shinji Uchiyama, Japan

8-15 On a Technique for Evaluating Performance of Wipers Based on Forward Visibility
Takashi Kitayama, Masatoshi Sakai, Takashi Kato, Muneo Yamada, Tomoaki Nakano, Shin Yamamoto, Osami Yamamoto, Masahiko Yamanishi and Hiroshi Matsumoto, Japan

8-16 A Multicamera Vision System Supporting the Development of Wide-Area Exertainment Applications
Xenophon Zabulis, Thomas Sarmis, Dimitris Grammenos and Antonis A. Argyros, Greece

8-17 Multiple-Person Tracking for a Mobile Robot Using Stereo
Junji Satake and Jun Miura, Japan

8-18 Automatic Analysis of Fish Behaviors and Abnormality Detection
Myo Thida, How-Lung Eng and Boon Fong Chew, Singapore

8-19 Video Retrieval System Using Handwriting Sketch
Akihiro Sekura and Masashi Toda, Japan

8-20 Linear 3-D Object Pose Estimation with Dense Sample Images –Discussions about Limitation of Parameter Estimation Ability by the Linear Regressions–
Toshiyuki Amano and Toru Tamaki, Japan

8-21 Predicting Attainable Region of Vehicle Using Trajectory Clustering
Noritaka Sekiyama, Jien Kato and Toyohide Watanabe, Japan

8-22 A Sensor Based Navigation Algorithm for Moving Obstacles Assuring Convergence Property
Masaaki Tomita and Motoji Yamamoto, Japan

8-23 Static Estimation of the Meteorological Visibility Distance in Night Fog with Imagery
Romain Gallen, Nicolas Hautière and Eric Dumont, France

8-24 Machine Vision for Excess Gluing Inspection in Spindle Motor Assembly
Varunyou Buddhachan and Pakorn Kaewtrakulpong, Thailand

8-25 Chromosome Image Recognition with Local Band Patterns
Toru Abe, Chieko Hamada and Tetsuo Kinoshita, Japan

8-26 Comparison of Conventional US and Spatial Compound Imaging in Diagnostic Performances of Computer Aided Diagnosis System
Wei-Chih Shen, Ruey-Feng Chang and Woo Kyung Moon, Taiwan

8-27 Worker Behavior and Intension Modeling in Production Process
Takuma Funahashi, Takayuki Hoshino, Naoya Tokuda, Takayuki Fujiwara and Hiroyasu Koshimizu, Japan

8-28 Investigation of OCT Images Descriptions on the Base of Representational MDL Principle
Igor Gurov and Alexey Potapov, Russia

8-29 Feature Level Clustering of Large Biometric Database
Hunny Mehrotra, Dakshina R. Kisku, V. Bhawani Radhika, Banshidhar Majhi and Phalguni Gupta, India

8-30 3D Porous Media Liquid-Solid Interaction Simulation Using SPH Modeling and Tomographic Images
Alfonso Gastelum Strozzi, Jorge Marquez, Flavio Trujillo, Celine Duwig, Blanca Prado, Pavan Gamage and Patrice Delmas, New Zealand

Session 9: Invited Talk 2 (14:30 – 15:30)
Chair: Katsushi Ikeuchi

9-1 Focal Stack Photography: High-Performance Photography with a Conventional Camera
Prof. Kyros Kutulakos, University of Toronto, Canada

Break (15:30 – 15:50)

Session 10: Human Sensing (15:50 – 17:30)
Chairs: Bryan Scotney and Kyoko Sudo

10-1 Shape Measurement System of Foot Sole Surface from Flatbed Scanner Image
Sandy Martedi, Hideo Saito and Myriam Servières, Japan

10-2 Extracting Appearance Information inside the Pupil for Cataract Screening
Retno Supriyanti, Hitoshi Habe, Masatsugu Kidode and Satoru Nagata, Japan

10-3 Eye Detection Using Intensity and Appearance Information
M. Hassaballah and Shun Ido, Japan

10-4 Eye Blink Based Fatigue Detection for Prevention of Computer Vision Syndrome
Matjaž Divjak and Horst Bischof, Austria

10-5 Detection of Approaching Pedestrians from a Distance Using Temporal Intensity Patterns
Siu-Ming Cheung and Yiu-Sang Moon, Hong Kong

Banquet (18:00 – 20:00)

Friday, May 22, 2009

Session 11: Industrial Applications (9:00 – 10:20)
Chairs: Andrea Prati and Hisae Shibuya

11-1 A New Flat Pattern Oriented Order Statistic Filter for Impulse Noise Reduction from Highly Corrupted Images
Tomohiko Ohtsuka, Homare Sasaki, Masato Suzuki and Hiroyuki Aoki, Japan

11-2 Multiple Object Detection for Pick-and-Place Applications
Paolo Piccinini, Andrea Prati and Rita Cucchiara, Italy

11-3 A Cloth Detection Method Based on Image Wrinkle Feature for Daily Assistive Robots
Kimitoshi Yamazaki and Masayuki Inaba, Japan

11-4 Carbon Nanotube Detection by Scanning Electron Microscopy
Tim Wortmann and Sergej Fatikow, Germany

Break (10:20 – 10:40)

Session 12: Geographic Information Systems (10:40 – 11:40)
Chairs: Laurent Heutte and Eigo Segawa

12-1 Automatic GIS Updating from High Resolution Satellite Images
Nicolas Champion, Georges Stamon and Marc Pierrot-Deseilligny, France

12-2 Extracting 3D Polyhedral Building Models from Aerial Images Using a Featureless and Direct Approach
Fadi Dornaika and Karim Hammoudi, France

12-3 AR GIS on a Physical Map Based on Map Image Retrieval Using LLAH Tracking
Hideaki Uchiyama, Hideo Saito, Myriam Servières and Guillaume Moreau, Japan

Lunch (11:40 – 13:00)

Session 13: Poster Session 3 (13:00 – 14:30)

13-1 Probabilistic-Based Semantic Image Feature Using Visual Words
Cheng-Chieh Chiang, Jia-Wei Wu and Greg C. Lee, Taiwan

13-2 A Block Matching Technique Using Unit Gradient Vectors
Toshiaki Kondo and Waree Kongprawechnon, Thailand

Session 14: Invited Talk 3 (14:30 – 15:30)
Chair: Hideo Saito

14-1   **Integration of Earth Observation Data: Challenge of GEOSS (Global Earth Observation System of Systems)**
Prof. Ryosuke Shibasaki, The University of Tokyo, Japan

Break (15:30 – 15:50)

Session 15: Machine Vision for Transportation (15:50 – 17:50)
Chairs: Thomas M. Breuel and Kunio Nobori

15-1   **Automatic Extraction of Droppers in Catenary Scenes**
Caroline Petitjean, Laurent Heutte, Régis Kouadio and Vincent Delcourt, France

15-2   **Free Space Detection for Autonomous Navigation in Daytime Foggy Weather**
Nicolas Hautière, Jean-Philippe Tarel and Didier Aubert, France

15-3   **An Intelligent Night Vision System for Automobiles**
Tsz-Ho Yu, Yiu-Sang Moon, Jiansheng Chen, Hung-Kwan Fung, Hoi-Fung Ko and Ran Wang, Hong Kong

15-4   **A New Approach for In-Vehicle Camera Traffic Sign Detection and Recognition**
Andrzej Ruta, Yongmin Li, Fatih Porikli, Shintaro Watanabe, Hiroshi Kage and Kazuhiko Sumi, United Kingdom

15-5   **Recognition of Road Markings from In-Vehicle Camera Images by a Generative Learning Method**
Masafumi Noda, Tomokazu Takahashi, Daisuke Deguchi, Ichiro Ide, Hiroshi Murase, Yoshiko Kojima and Takashi Naito, Japan

15-6   **Vision Based Tangent Point Detection Algorithm, Evaluation and Validation**
Romain Gallen and Sébastien Glaser, France

Closing Session (17:50 – 18:00)

Important Notice

For all participants

Invited talk

Invited talk is planned to take place in Fujiwara Hiroshi Hall at 14:30 p.m. on Wednesday, Thursday, and Friday, respectively. The time assigned for the talk is 60 minutes including discussions. Smoking, drinking, and eating are strictly prohibited inside Fujiwara Hiroshi Hall.

Oral session site

Oral sessions will be held in Fujiwara Hiroshi Hall.

Poster session site

Poster sessions will be held in Multipurpose Room2 and Multipurpose Room3.

Name badges

All participants are requested to wear their name badges during the conference. You may not be allowed access to the conference site without your name badge. Invited speakers, regular speakers, and other participants are provided with red, dark-blue, and light-blue badges, respectively. Conference committee members and organization staff wear purple and green badges, respectively. Session chairs also put yellow marks on their badges.

Restaurants, ATMs, post offices, etc.

Please refer to the map (contained in your conference bag) for restaurants, ATMs, post offices, and convenience stores around the conference site.

Breaks

Coffee and soft drink will be served during the morning and afternoon breaks.

Banquet

The conference banquet will be held at Faculty Lounge in Raiosha from 18:00 on Thursday, May 21. Further information will be available in the registration area.

LAN

Wireless LAN will be available in the conference palace. Further information, such as the connection name and its network key (WEP), can be found in the registration area.

For presenters in oral sessions

All oral presentations will be given in a single track. Presenters are requested to observe the following points:

1) Each oral presenter is given 20 minutes including 15 minutes for presentation and about 5 minutes for questions and answers.

2) A PC projector will be made available at the auditorium. Laptop computers can be used with this projector. Presenters are asked to bring a laptop computer with a DB15HD port for external display and that can run on 100V AC through a two-prong-socket.

3) Presenters should go to Fujiwara Hiroshi Hall 15 minutes before their session starts, introduce themselves to the session chairs, and check that their presentation works with the provided equipment.

For presenters in poster sessions

The poster session will be held over a time period of 90 minutes at the beginning of the afternoon sessions, starting at 13:00 p.m. on Wednesday, Thursday, and Friday, respectively. Presenters are encouraged to spend most of the time at their poster during their 90-minute-session. Presenters are requested to observe the following points:

1) A poster board of the size of 1800-mm (width) x 1800-mm (height) will be provided to each poster presenter. To find your board, look for your presentation number in the final program attached on the board. We will provide thumbtacks (drawing pins) for tacking the poster(s) to the board.

2) To enable participants to view your work more closely during the afternoon sessions, we request presenters to prepare their posters during the lunch break, and after the poster session, they can leave posters in place during all sessions in the afternoon. Please be sure to remove them by the end of the afternoon sessions.

For session chairs

1) Please make sure to arrive at Fujiwara Hiroshi Hall at least 15 minutes before the start of the session.

2) Make sure that all the presenters for your session are there at the start and introduce yourself to them.

3) All presentations are 20 minutes long including question and answer period and computer swapping time.