Final Program

http://www.mva-org.jp/

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
The Japanese Society for Non-destructive Inspection
The Japan Society for Precision Engineering
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
Mark Bayazit, Alex Couture-Beil and Greg Mori, Canada

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
Chairs: Julien Pilet and Yoichi Sato

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 Hirayuki 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 Toshihiko Yagi, Japan

3-5 Human Behavior Analysis Using Multiple 2D Features and Multicategory Support Vector Machine
Chairs: Hiroshi Tanaka and Hideo Saito, Japan

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 Sarris, 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 Konodou, Mikiko Kawasaki, Osami Yamamoto, Muneyo 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, Yuki nobu 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 Momenti, 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
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
Ryusuki Ozaki, Yutaka Sato, Kenji Iwata and Katsuhiko Sakae, 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
Maia Rudinac, Boris Lenseigne and Pieter Jonker, Netherlands
7-2 Scene Classification Using Generalized Local Correlation
Hideki Nakayama, Tatsuya Harada and Yasuo Kaniyoshi, 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
Hai-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, Tianti 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 Cuervo, 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
Hitaka Takizawa, Shinji Yamamoto and Tsuyoshi Shiina, Japan
8-14 Model-Based 3D Object Tracking with Online Texture Update
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

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 Kongpravechnon, Thailand
13-3 An Easy Technique for Fisheye Camera Calibration
Haijiang Zhu and Fuchao Wu, China

13-4 Robust Vision-Based Target Tracking Control System for an Unmanned Helicopter Using Feature Fusion
Feng Lin, Ben M. Chen and Tong H. Lee, Singapore

13-5 Robust Background Segmentation Using Background Models for Surveillance Application
Tianci Huang, Jinghong Qiu, Takahiro Sakayori and Takeshi Ikemoto, Japan

13-6 Motion Segmentation Using Divisive Graph Cuts
Jong-Sung Kim and H-Kwon Jeong, South Korea

13-7 A Novel Transducer: From Lip Motion to Voice Message
Takeshi Saitoh, Tomoya Kato and Ryosuke Konishi, Japan

13-8 Proposal of Exaggeration Method Based on Shape and Positional Relations of Automotive Parts
Hiroshi Fujimoto, Takuma Funahashi, Takayuki Fujiwara and Hiroyasu Koshimizu, Japan

13-9 Image Processing Architecture for Real-Time Micro- and Nanohandling Applications
Tim Wortmann, Christian Dahmen, Robert Tunnell and Sergej Fatikow, Germany

13-10 Fitting Curves on Riemannian Manifolds Using Energy Minimization
Chafik Samir, Pierre-Antoine Absil, Anuj Srivastava and Eric Klassen, Belgium

13-11 Classification of Spectators' State in Video Sequences by Voting of Facial Expressions and Face Directions
Tetsu Matsukawa, Akinori Hidaka and Takio Kurita, Japan

13-12 A Hybrid Model for Multiple Object Category Detection and Localization
Dipankar Das, Yoshinori Kobayashi and Yoshinori Kuno, Japan

13-13 Unsupervised Material Classification of Printed Circuit Boards Using Dimension-Reduced Spectral Information
Abdelhameed Ibrahim, Shoji Tominaga and Takahiko Kishima, Japan

13-14 An Optical Video Cryptosystem with Adaptive Steganography
Cheng-Hung Chuang and Guo-Shiang Lin, Taiwan

13-15 Development of System for Comprehensively Measuring Driving Ability for Elderly Safe Driving
Toshiaki Kasukabe, Masatake Hiraoaka, Osami Yamamoto, Muneyo Yamada, Tomaoki Nakano, Shin Yamamoto, Katsumi Matsuda and Mikiko Kawasumi, Japan

13-16 Generation of Overhead View Images by Estimating Intrinsic and Extrinsic Camera Parameters of Multiple Fish-Eye Cameras
Ryota Okatsu, Kenji Terabayashi, Yohei Aragaki, Noriko Shimomura and Kazunori Umeda, Japan

13-17 Image Processing in Retinal Angiography: Extracting Angiographical Features without the Requirement of Contrast Agents
Tati Rajab Mengko, Astri Handayani, Vanya Vabrina Valindria, Samekta Hadi and Iwan Sovani, Indonesia

13-18 A Human Fall Detection System Using an Omni-Directional Camera in Practical Environments for Health Care Applications
Yi-Chang Huang, Shaow-Gang Miaou and Tsung-Yen Liao, Taiwan

13-19 Intrinsic Color Acquisition By Active Color Lighting
Hisanaga Fujitwara, Japan

13-20 Large Area Video Surveillance System with Handoff Scheme among Multiple Cameras
Cheng-Chang Lien, Yue-Min Jiang and Lih-Guang Jang, Taiwan

13-21 Classification of Wet/Dry Area Based on the Mahalanobis Distance of Feature from Time Space Image Analysis
Tomoaki Teshima, Hideo Saito, Masayoshi Shimizu and Akinori Taguchi, Japan

13-22 Classification of In-Vivo Endomicroscopic Images of the Alveolar Respiratory System
Caroline Petitjean, Jonathan Benoist, Luc Thiberville, Mathieu Salaïn and Laurent Heutte, France

13-23 On Face Recognition Using Hierarchical Self-organized Gabor Features
Saleh Aly, Naoyuki Tsuruta and Rintaro Taniguchi, Japan

13-24 Scallop Detection from Gravel-Seabed Images for Fishery Investigation
Koichiro Enomoto, Masashi Toda, Yasuhiro Kuwahara, Masaaki Wada and Katsutoshi Hatanaka, Japan

13-25 Stereo Vision: A Java-Based Online Platform
Minh Nguyen, George Gimelfarb and Patrice Delmas, New Zealand

13-26 Lavatube - A Software Framework for Computer Vision Research and Development
Kenji Iwata, Yutaka Saitoh and Katsuhiko Sakaue, Japan

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, Jiasheng Chen, Hangkwan 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.