Final Program

IAPR ⬤ MVA2013
IAPR INTERNATIONAL CONFERENCE ON MACHINE VISION APPLICATIONS

May 20-23, 2013
Suzaku Campus, Ritsumeikan University, Kyoto, JAPAN

Topics

Machine Vision and its Applications

IAPR Invited Speakers

Prof. Svetlana Lazebnik (University of Illinois at Urbana-Champaign)
"Towards Open-Universe Image Parsing with Broad Coverage"

Dr. Kenkichi Tanioka
(Ex-Director General, NHK STRL)
"Development of Ultrahigh-Sensitivity HARP Pickup Tube
and its Applications"

Dr. Mattias Johannesson (SICK)
"3D Vision Sensing Technologies in Factory Automation and Robotics"

Sponsored by

MVA Organization, IAPR TC-8 and Ritsumeikan 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 Academic Study on Sensing via Image Information
The Society of Automotive Engineers of Japan
The Society of Instrument and Control Engineers
The Virtual Reality Society of Japan

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Final Program

Tutorial Course (13:00 - 17:00)

Welcome Party (17:30 - 21:00)

Tuesday, May 21, 2013

Registration (9:00 - 9:40)

Opening Session (9:40 - 9:50)

Session 1: Recognition and Identification (9:50 - 10:50)

Chairs: Frank Nielsen and Ichiro Ide

1-1 **Mean Polynomial Kernel for Face Membership Authentication**
Raissa Relator, Yoshihiro Hirohashi, Tsuyoshi Kato (Japan)

1-2 **Solving Nonlinear SVM in Linear Time? A Nyström Approximated SVM with Applications to Image Classification**
Ming-Hen Tsai, Yi-Ren Yeh, Yuh-Jye Lee, Yu-Chiang Frank Wang (Taiwan)

1-3 **Riemannian Set-Level Common-Near-Neighbor Analysis for Multiple-Shot Person Re-identification**
Wei Li, Yang Wu, Yasutomo Kawanishi, Masayuki Mukunoki, Michihiko Minoh (Japan)

Break (10:50 - 11:00)

Session 2: IAPR Invited Talk 1 (11:00 - 12:00)

Chair: Yoichi Sato

Towards Open-Universe Image Parsing with Broad Coverage
Prof. Svetlana Lazebnik
(University of Illinois at Urbana-Champaign, USA)

Lunch (12:00 - 13:40)

Session 3: Health and Life (13:40 - 15:00)

Chairs: Birgit Möller and Hisae Shibuya

3-1 **Automatic Polyp Detection in Endoscope Images Using a Hessian Filter**
Yuji Iwahori, Takayuki Shinohara, Akira Hattori, Robert J. Woodham, Shinji Fukui, Manas Kamal Bhuyan, Kunio Kasugai (Japan)

3-2 **A New Image Centrality Descriptor for Wrinkle Frame Detection in WCE Videos**
Santi Seguí, Ekaterina Zaytseva, Michal Drozdzal, Carolina Malagelada, Fernando Azpiroz, Petia Radeva, Jordi Vitrià (Spain)

3-3 **Perspective Click-and-Drag Area Selections in Pictures**
Frank Nielsen (Japan)

3-4 **A Keyframe Selection of Lifelog Image Sequences**
Amornched Jinda-Apiraksa, Jana Machajdik, Robert Sablatnig (Singapore)

Session 4: Poster Session 1 (15:00 - 16:40)

4-1 **SwATrack: A Swarm Intelligence-based Abrupt Motion Tracker**
Mei Kuan Lim, Chee Seng Chan, Dorothy Monekosso, Paolo Remagnino (Malaysia)

4-2 **Action Recognition Using Temporal Bag-of-Words from Depth Maps**
Parul Shukla, Kanad Kishore Biswas, Prem K. Kalra (India)

4-3 **Font Descriptor Construction for Printed Thai Character Recognition**
Ungsumalee Suttapakti, Kuntpong Woraratpanya, Kitsuchart Pasupa (Thailand)

4-4 **Application of Bandelet Transform to Surface Defect Recognition of Hot Rolled Steel Plates**
Yonghao Ai, Ke Xu (China)

4-5 **Detecting Structured Image Region Using Local Features and Clustering Analysis**
Huei-Yung Lin, Chin-Yu Hsu, Yung-Yang Chiang (Taiwan)

4-6 **Scene Change Detection and Topological Map Construction Using Omnidirectional Image Sequences**
Huei-Yung Lin, Yu-Hsiang Lin, Jia-Wei Yao (Taiwan)

4-7 **Vision-based Raising Hand Detection in Classroom**
Cheng-Chieh Chiang, Cheng-Chuan Tsai, Greg C. Lee (Taiwan)

4-8 **Gradient Histogram Background Modeling for People Detection in Stationary Camera Environments**
Víctor Borjas, Jordi Vitrià, Petia Radeva (Spain)

4-9 **Construction of General HMMs from a Few Hand Motions for Sign Language Word Recognition**
Tadashi Matsuo, Yoshiaki Shirai, Nobutaka Shimada (Japan)

4-10 **Finding Discriminant Axes from Multiple Viewpoints**
Jun Fujiki (Japan)

4-11 **Segmentation of Human Instances Using Grab-Cut and Active Shape Model Feedback**
Esmaeil Pourjam, Ichiro Ide, Daisuke Deguchi, Hiroshi Murase (Japan)

4-12 **Skew Detection Using Contour Analysis for a Scanned Journal Page**
Yung-Sheng Chen, Pao-Hsien Li (Taiwan)

4-13 **A Neighbourhood Search Feedback for Coronary Artery Centerline Tracking**
Szeling Tang, Chee Seng Chan (Malaysia)

4-14 **An Efficient Feature-Level Fusion Scheme in Multi-modal Biometrics**
Ren-He Jeng, Wen-Shiung Chen, Lili Hsieh (Taiwan)

4-15 **Improved Color Barycenter Model for Road-Sign Detection**
Qieshi Zhang, Sei-ichiro Kamata (Japan)

4-16 **Automated Multi-Camera System for Long Term Behavioral Monitoring in Intensive Care Units**
Manuel Martinez, Rainer Stiefelhagen (Germany)

4-17 **Measurement of Torsional Eye Movement Using Terminal Points of Conjunctival Blood Vessels**
Hiroyuki Nakagomi, Kiyoshi Hoshino (Japan)

4-18 **Displayed Object Recognition for Smartphone Interaction**
Karim Kadar, Francois de Sorbier, Hideo Saito (Japan)

4-19 **Stable Pose Estimation Using RANSAC with Triple Point Feature Hash Maps and Symmetry Exploration**
Ulrike Thomas (Germany)

4-20 **Thermal-Visual Facial Feature Extraction Based on Nostril Mask**
Haji Modh Mohd Norzali, Masayuki Kashima, Kiminori Sato, Mutsumi Watanabe (Japan)

4-21 **Fingernail Detection Method from Hand Images Including Palm**
Noriaki Fujishima, Kiyoshi Hoshino (Japan)

4-22 **3D Trajectory Reconstruction of the Soccer Ball for Single Static Camera Systems**
Jürgen Metzler, Frank Pagel (Germany)

4-23 **High Density Shapes Using Photometric Stereo and Laser Range Sensor under Unknown Light-Source Direction**
Tomoyuki Kamikawa, Daisuke Miyazaki, Masashi Baba, Ryo Furukawa, Masahito Aoyama, Shinsaku Hiura, Naoki Asada (Japan)

4-24 **A Biologically Inspired Approach for Fast Image Processing**
Sonya Coleman, Bryan Scotney, Bryan Gardiner (United Kingdom)

4-25 **Body Pose Based Pedestrian Tracking in a Particle Filtering Framework**
Md. Junaedur Rahman, Jesus Martinez-del-Rincon, Jean-Christophe Nebel, Dimitrios Makris (United Kingdom)

4-26 **Photometric based 3D Registration**
Narut Soontranon, Marc Pierrot-Deseilligny, El Mustapha Mouaddib (France)

Session 5: Facial Modeling (16:40 - 18:00)

Chairs: Greg Mori and Ryuzo Okada

5-1 **Efficient Measuring of Facial Action Unit Activation Intensities Using Active Appearance Models**
Daniel Haase, Michael Kemmler, Orlando Guntinas-Lichius, Joachim Denzler (Germany)

5-2 **Lip Tracking for 3D Face Registration**
Robert Anderson, Björn Stenger, Roberto Cipolla (United Kingdom)

5-3 **A Two-dimensional Direct Combined Model for Facial Hallucination**
Ching-Ting Tu, Kung-Hung Lin, Tyng-Luh Liu (Taiwan)

5-4 **Converting Near Infrared Facial Images to Visible Light Images Using Skin Pigment Model**
Kimshing Goh, Tetsu Matsukawa, Takahiro Okabe, Yoichi Sato (Japan)

Wednesday, May 22, 2013

Session 6: Basic Techniques (9:30 - 10:50)

Chairs: Tae-Kyun Kim and Yoshihisa Ijiri

6-1 **Edge Detection with Automatic Scale Selection Approach to Improve Coherent Visual Attention Model**
Jiayu Liang, Shiu Yin Yuen (China)

6-2 **Utilizing Overlapping Windows in Spatial Pyramid Matching**
Kristo, Chin Seng Chua (Singapore)

6-3 **Automatic Sharp Feature Extraction from Point Clouds with Optimal Neighborhood Size**
Trung-Thien Tran, Sarah Ali, Denis Laurendeau (Canada)

6-4 **Global Binary Patterns: A Novel Shape Descriptor**
Erdal Sivri, Sinan Kalkan (Turkey)

Break (10:50 - 11:00)

Session 7: IAPR Inviter Talk 2 (11:00 - 12:00)

Chair: Katsushi Ikeuchi

Development of Ultrahigh-Sensitivity HARP Pickup Tube and its Applications
Dr. Kenkichi Tanioka (Ex-Director General, NHK STRL, Japan)

Lunch (12:00 - 13:40)

Session 8: Outdoor Scene (13:40 - 15:00)

Chairs: Bryan Scotney and Abdelaziz Khiat

8-1 **Vehicle Localization along a Previously Driven Route Using Image Database**
Hideyuki Kume, Arne Suppé, Takeo Kanade (Japan)

8-2 **Robust and Fast Motion Estimation for Video Completion**
Shaodi You, Robby T. Tan, Rei Kawakami, Katsushi Ikeuchi (Japan)

8-3 **Semantic 3D Octree Maps Based on Conditional Random Fields**
Dagmar Lang, Susanne Friedmann, Dietrich Paulus (Germany)

8-4 **Information Fusion on Oversegmented Images: An Application for Urban Scene Understanding**
Philippe Xu, Franck Davoine, Jean-Baptiste Bordes, Huijing Zhao, Thierry Denoeux (France)

Session 9: Poster Session2 (15:00 - 16:40)

9-1 **Common Class Information based Efficient Training Data Selection for Photo Categorization**
Ryo Shirasu, Jien Kato, Yu Wang, Kenji Mase (Japan)

9-2 **Vision-based Cooperative Manipulation of Mobile Robots**
Wen-Chung Chang, Jing-Yan Ju-Ge (Taiwan)

9-3 **Experimental Evaluation of Stereo-based Person Tracking in Real Environment**
Junji Satake, Jun Miura (Japan)

9-4 **Image Contrast Enhancement Using Discrete Dual Hahn Moments**
Perugu Ananth Raj (India)

9-5 **A Geometric Approach to Multiple-View Triangulation for Fisheye Cameras**
Graziano Chesi (China)

9-6 **Multi-modal Query Expansion for Video Object Instances Retrieval**
Andrei Bursuc, Titus Zaharia (France)

9-7 **Handwritten and Printed Text Separation in Real Document**
Abdel Belaïd, K.C. Santosh, Vincent Poulain d'Andecy (France)

9-8 **Calibration of Projector with Fixed Pattern and Large Distortion Lens in a Structured Light System**
Xingdou Fu, Zuofu Wang, Hiroshi Kawasaki, Ryusuke Sagawa, Ryo Furukawa (Japan)

9-9 **Hierarchical Eigen Template Matching for Target Detection**
Koshiro Yata, Gou Koutaki, Keiichi Uchimura, Michiaki Kan, Daisuke Asai, Makoto Takeba (Japan)

9-10 **Automatic Pupil Detection in Ophthalmology Diagnose**
Wei-Jun Chen (Germany)

9-11 **Monocular Vision Based Relative Depth Estimation for Hand Gesture Recognition**
Wei Fan, Li Chen, Wei Liu, Yuan He, Jun Sun, Shutao Li (China)

9-12 **Color Barycenter Model based Multiple-Histogram Mapping and Merging for Image Enhancement**
Qieshi Zhang, Sei-ichiro Kamata (Japan)

9-13 **Underdetermined Approach to Real-Time Face Tracking and Recognition**
Hisayoshi Chugan, Yuki Oka, Takeshi Shakunaga (Japan)

9-14 **Kinect Unleashed: Getting Control over High Resolution Depth Maps**
Manuel Martinez, Rainer Stiefelhagen (Germany)

9-15 **Scattering Tomography by Monte Carlo Voting**
Yasunori Ishii, Toshiya Arai, Yasuhiro Mukaigawa, Junichi Tagawa, Yasushi Yagi (Japan)

9-16 **A Single Finger Geometry Recognition Based on Widths and Fingertip Angles (WFTA)**
Mohd Shahrimie Mohd Asaari, Bakhtiar Affendi Rosdi (Malaysia)

9-17 **Optimization of 3D Shape Sharpening Filter Based on Geometric Statistical Values**
Masanari Yokomizo, Daisuke Miyazaki, Masashi Baba, Ryo Furukawa, Masahito Aoyama, Shinsaku Hiura, Naoki Asada (Japan)

9-18 **Differential-Formed Shape from Multiple Images Based on One-Directional Random Small Camera Rotations**
Shoei Koizumi, Norio Tagawa (Japan)

9-19 **3D Keypoint Tracking Based on Hybrid Flow Computation for Human Motion Analysis**
Sujung Bae, Sungeun Hong, Hyun Seung Yang (South Korea)

9-20 **Common Landmark Discovery in Urban Scenes**
Yuuto Chokushi, Kanji Tanaka, Masatoshi Ando (Japan)

9-21 **Client-driven Content Extraction Associated with Table**
K.C. Santosh, Abdel Belaïd (France)

9-22 **Three-dimensional Block World Reconstruction from Monocular Images by Use of an Object-based Markov Random Field Model**
Hotaka Takizawa, Daichi Tanii (Japan)

9-23 **Intelligent Human Detection Based on Depth Information**
Tzu-Wei Chen, Ku Ying Lin, Yon-Ping Chen (Taiwan)

9-24 **Video-based Head Tracking for High-Performance Games**
Andrei Sherstyuk, Anton Treskunov, Vladimir Savchenko (United States of America)

9-25 **A Binarization Method for Degraded Document Images with Morphological Operations**
Akihiro Okamoto, Hiromi Yoshida, Naoki Tanaka (Japan)

9-26 **Automated Intrusion Detection for Video Surveillance Using Conditional Random Fields**
Dierck Matern, Alexandru Paul Condurache, Alfred Mertins (Germany)

9-27 **Rotated Kanji Character Recognition**
Yuta Baba, Hiroyuki Hase, Shogo Tokai (Japan)

9-28 **Scan-Matching based 6DOF SLAM Using Omni-directional Stereo**
Hiroshi Koyasu, Hitoshi Maekawa, Hiroshi Kawasaki, Shintaro Ono, Katsushi Ikeuchi (Japan)

9-29 **Vehicles Detection and Tracking in Videos for Very Crowded Scenes**
Sara Atito Aly, Ahmed Mamdouh, Moatz Abdelwahab (Egypt)

Session 10: Behavior Analysis (16:40 - 18:00)

Chairs: Björn Stenger and Shotaro Miwa

10-1 **Collaborated Directional Chamfer Matching for 3D Hand Pose Estimation**
Wei Liu, Wei Fan, Yuan He, Jun Sun, Akihiro Minagawa, Yoshinobu Hotta (China)

10-2 **Multi Spatio-Temporal Co-occurrence Measures for Human Action Classification**
Aznul Qalid Md Sabri, Jacques Boonaert, Stephane Lecoeuche, El Mustapha Mouaddib (France)

10-3 **Continuous Action Recognition by Action-specific Motion Models**
Keiji Morimoto, Yoichi Matsuyama, Norimichi Ukita (Japan)

10-4 **Local Polynomial Space-Time Descriptors for Actions Classification**
Olivier Kihl, David Picard, Philippe-Henri Gosselin
(France)

Banquet (19:00 - 21:00)

Thursday, May 23, 2013

Session 11: 3D Measurement and Recovery (9:30 - 10:50)

Chairs: Shinsaku Hiura and Takeshi Masuda

11-1 **Exemplar based Texture Recovery Technique for Active One Shot Scan**
Yohan Thibault, Hiroshi Kawasaki, Ryo Furukawa, Ryusuke Sagawa (Japan)

11-2 **Multimodal Stereo Vision Using Mutual Information with Adaptive Windowing**
Mustafa Yaman, Sinan Kalkan (Turkey)

11-3 **Fast Edge-Aware Cost Aggregation for Stereo Correspondence**
Bingrong Wang, Xianghui Bai, Zhiming Tan, Akihiro Higashi (China)

11-4 **Enhanced Photometric Stereo with Multispectral Images**
Tsuyoshi Takatani, Yasuyuki Matsushita, Stephen Lin, Yasuhiro Mukaigawa, Yasushi Yagi (Japan)

Break (10:50 - 11:00)

Session 12: IAPR Invited Talk 3 (11:00 - 12:00)

Chair: Masaki Suwa

3D Vision Sensing Technologies in Factory Automation and Robotics
Dr. Mattias Johannesson (SICK, Sweden)

Lunch (12:00 - 13:40)

Session 13: Industry (13:40 - 14:20)

Chairs: Du-Ming Tsai and Yoshinori Konishi

13-1 **Pharmaceutical Blister Pack Recognition using Local Features**
Koki Saitoh (Japan)

13-2 **An Image-based System for Change Detection on Tunnel Linings**
Simon Stent, Riccardo Gherardi, Björn Stenger, Kenichi Soga, Roberto Cipolla (United Kingdom)

Session 14: Poster Session 3 (14:20 - 16:00)

14-1 **Abnormal Action Detection Using Temporal and Spatial Information**
Hisashi Mikado, Kazunori Onoguchi (Japan)

14-2 **The Measurement of Carried Cartons Using Multiple Kinect Sensors**
Yuka Kohno, Masaya Maeda, Tomoyuki Hamamura, Bunpei Irie (Japan)

14-3 **Instant Surface Reconstruction for Incremental SfM**
Kichang Kim, Takayuki Sugiura, Akihiko Torii, Shigeki Sugimoto, Masatoshi Okutomi (Japan)

14-4 **Unknown Object Identification Using Category Visual Words with Rejection Function**
Yuto Tanaka, Yasuo Ariki, Tetsuya Takiguchi (Japan)

14-5 **An Object-driven Online Segmentation System for Mobile Robots**
Xin Wang, Pieter P. Jonker (Netherlands)

14-6 **Ray-Tracing based Interactive Camera Simulation**
Damon Shing-Min Liu, Che-wei Hsu (Taiwan)

14-7 **Detecting Rotational Symmetry via Global/Local Image Analysis**
Yousuke Inagaki, Kanji Tanaka (Japan)

14-8 **Stereo Camera Tracking for Mixed Reality-based PreViz of Stereoscopic 3D Cinema Using ICP Algorithm**
Shohei Mori, Fumihisa Shibata, Asako Kimura, Hideyuki Tamura (Japan)

14-9 **A Novel Saliency Measure Using Combined Spatial Redundancy and Local Appearance**
Ahmed Boudissa, Joo Kooi Tan, Hyoungseop Kim, Seiji Ishikawa, Takashi Shinomiya (Japan)

14-10 **Robust Left Object Detection and Verification in Video Surveillance**
Yijun Xiao, Abdul Farooq, Melvyn Smith, Daniel Wright, Glynn Wright (United Kingdom)

14-11 **Choosing Multi-Illumination Training Images Based on the Degree of Linear Independency**
Cong Xia, Jiansheng Chen, Chang Yang, Jing Wang, Jing Liu, Guangda Su, Gang Zhang (China)

14-12 **Visibility Enhancement Technology for Cameras**
Daisuke Yoshida, Yuichi Nonaka, Takeru Kisanuki, Akihito Nishizawa (Japan)

14-13 **People Groping by Spatio-Temporal Features of Trajectories**
Asami Okada, Yusuke Moriguchi, Norimichi Ukita, Norihiro Hagita (Japan)

14-14 **BOG: An Extension of HOG by Interpreting it as Bag of Features**
Zhouxin Yang, Takio Kurita (Japan)

14-15 **A New Directional Filter Bank for 3D Texture Segmentation: Application to Lamellar Microstructure in Titanium Alloys**
Laurent Babout, Lukasz Jopek, Marcin Janaszewski (Poland)

14-16 **Real-Time In-Plane Rotation Estimation of Pharmaceutical Tablets: a Feature Based Approach**
Blaž Bratanič, Boštjan Likar, Franjo Pernuš, Dejan Tomaževič (Slovenia)

14-17 **Comparing Investigation of Images and 3D Mesh Model for Categorizing Electric Appliance Components**
Kimitoshi Yamazaki, Ryo Hanai, Hiroaki Yaguchi, Kotaro Nagahama, Katsuyoshi Yamagami, Masayuki Inaba (Japan)

14-18 **Character Relationship Analysis in Movies Using Face Tracks**
Yi-I Chiu, Chun-Rong Huang, Pau-Choo Chung (Taiwan)

14-19 **Detection Method of Scallop and Asteroid from Seabed Video**
Koichiro Enomoto, Masashi Toda, Yasuhiro Kuwahara (Japan)

14-20 **Learning-based Human Fall Detection Using RGB-D Cameras**
Szu-Hao Huang, Ying-Cheng Pan (Taiwan)

14-21 **Pose-Invariant Face Recognition Using a Single 3D Reference Model**
Gee-Sern Hsu, Hsiao-Chia Peng (Taiwan)

14-22 **A Framework Unifying the Development of Image Analysis Algorithms and Associated User Interfaces**
Birgit Möller, Stefan Posch (Germany)

14-23 **Big Trajectory Data Analysis for Clustering and Anomaly Detection**
Hirokatsu Kataoka, Kenji Iwata, Yutaka Satoh, Ikushi Yoda, Masaki Onishi, Yoshimitsu Aoki (Japan)

14-24 **Local-Threshold 2D-Tophat Cell Segmentation for the Two-Photon Confocal Microscope Image**
Xiaoyang Yuan, Lei Gu, Lei Sun, Takeshi Ikenaga (Japan)

14-25 **Detection and Decomposition of Foreground Target from Image Sequence**
Kwok-Leung Chan (China)

Session 15: Surveillance and Video retrieval (16:00 - 17:00)

Chairs: Sinan Kalkan and Hitoshi Habe

15-1 **Latent Spatio-Temporal Models for Action Localization and Recognition in Nursing Home Surveillance Video**
Yuke Zhu, Tian Lan, Yijian Yang, Steve Robinovitch, Greg Mori (Canada)

15-2 **A Real-Time ICA-based Activity Recognition in Video Sequences**
Du-Ming Tsai, Wei-Yao Chiu (Taiwan)

15-3 **Small Target Detection Combining Foreground and Background Manifolds**
Sébastien Razakarivony, Frédéric Jurie (France)

Closing Session, Award Ceremony (17:00 - 17:30)

Farewell Party(18:00 - 19:00)

Important Notice

For all participants

Oral sessions
Oral sessions will be held in the "Hall" on the 5th and 4th floor. Smoking, drinking, and eating are strictly prohibited inside the Hall.

Poster sessions
Poster sessions will be held in the foyer on the 4th floor.

IAPR Invited talks
IAPR Invited talks will take place in the Hall at 11:00 on Tuesday, Wednesday and Thursday. The time assigned for each talk is 60 minutes including discussions.

Demo Session
Demo sessions will be held at 4th floor from 15:00 to 16:40 on May 21 and 22. The following companies will demonstrate their products and technologies:
- Giken Trastem: People Counting System
- Linx: GigE Vision camera and Inspection System
- OMRON: Fast and Precise Template Matching & Deformation Invariant Optical Character Recognition
- OVIT: Vision Sensor inspecting the object is the same as usual
- Pioneer: Ultra-Sensitive HEED-HARP camera
- Toshiba: Compact Light Field Camera Module for Mobiles

Name badges
All participants are requested to wear their name badges during the conference. You may not be allowed to access 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.

Drinks
Coffee and soft drink will be served in the foyer on the 5th floor. No drink is allowed in the Hall.

Banquet
The conference banquet will be held at the ANA Crowne Plaza Hotel Kyoto from 19:00 on Wednesday, May 22. Further information will be available at the registration desk.

LAN
Wireless LAN is available at the conference site. You will find your ID and password in your conference bag. Please do not share the password. For security reasons, only HTTP and HTTPS are allowed. Further information will be provided at the registration desk.

Awards
Winners of the MVA2013 Best Paper Award and the MVA2013 Best Practical Paper Award will be announced and commended at the conference closing. The Best Poster Award is given to excellent poster presenters, based on the votes by all participants. Three voting sheets should be found in the conference bag. We ask each participant to vote for the best presentation in each poster session. The ballot box will be closed when Session 15 starts. The winner will be announced and commended at the conference closing.

For presenters in oral sessions

All oral presentations will be given in a single track in the Hall. Presenters are requested to observe the following points:
1) Each oral presenter is given 20 minutes including 15 minutes for presentation and 5 minutes for questions and answers.
2) A PC projector will be available in the Hall. Presenters are asked to bring a laptop computer which has a D-sub 15 connector port for external display and can run on 100V AC through a two-prong-socket.
3) Presenters should be in the 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 in the foyer on the 4th floor from 15:00 to 16:40 on Tuesday and Wednesday, and from 14:20 to 16:00 on Thursday. Presenters are encouraged to spend most of the time at their posters during their 100-minute session. Presenters are requested to observe the following points:
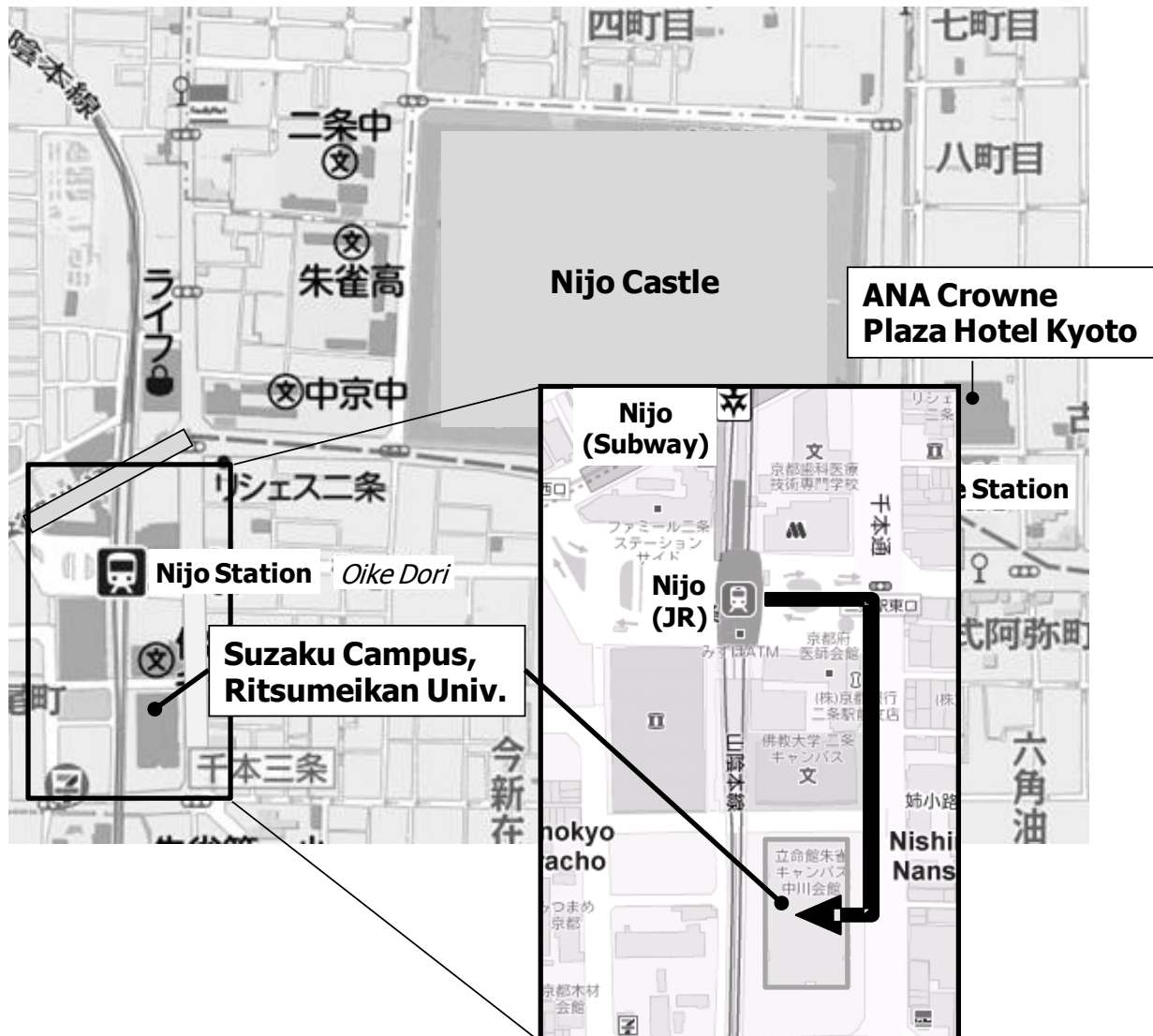1) A poster board of the size 1,800mm (width) x 1,200mm (height) will be provided for each poster. Posters should be large enough to be legible from a distance of approximately 2 meters. To find your board, look for your paper number in the final program attached on the board. We will provide thumb tacks (drawing pins) for tacking poster(s) to the board.
2) To enable the participants to view your work more closely during the afternoon sessions, we request the presenters to set up the posters during the lunch break; after the poster session, they can leave the posters in place during all the sessions in the afternoon. Please be sure to remove them by the end of the afternoon sessions, though.

For session chairs

1) Please make sure to arrive at the Hall at least 15 minutes before your session starts.
2) Then please make sure that all the presenters in your session are present.
3) Each presentation is 20-minute long, including questions and answers and the time for setting up the presentation.

Access to Conference Site
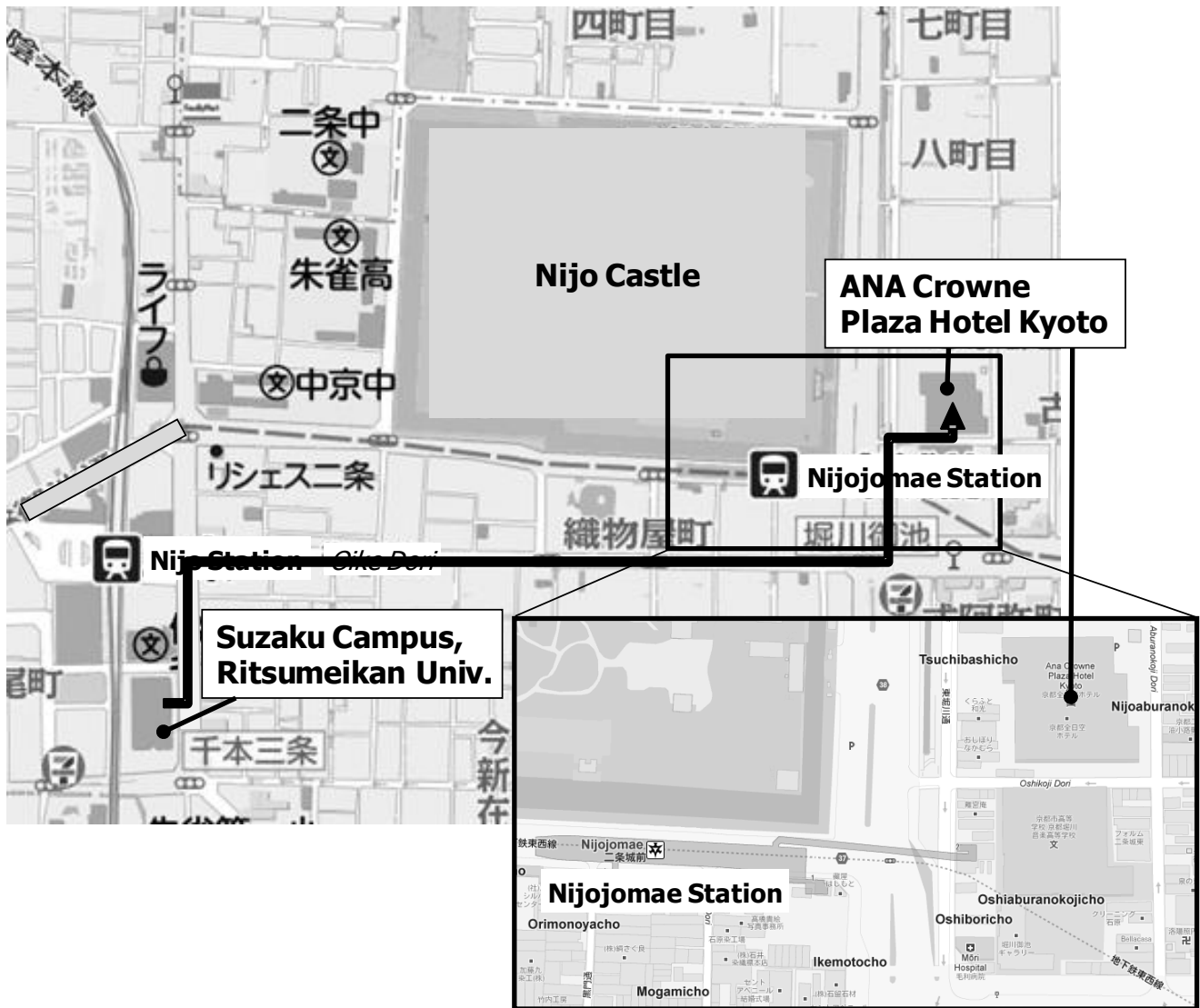
Suzaku Campus, Ritsumeikan University

Please come by public transportation. It takes 2 minutes on foot from JR Nijo station.
No parking lots are available for cars or bicycles at the conference site.

Registration desk is on the 5th floor.

Access to the Banquet Site

May 22, 19:00～21:00
Large Banquet Room "HEIAN"
2nd Floor, ANA Crowne Plaza Hotel Kyoto

It takes 15 minutes on foot, or 5 minutes by subway, from the conference site.

If you take the subway, walk 2 minutes and take the Tozai Subway Line from Nijo station to the next Nijojomae station. The fare is 210 JPY. The Banquet site is within 1-minute walk from the Nijojomae station.

MVA2013 Session table

	21 (Tue.)		22 (Wed.)		23 (Thu.)
9:00 Registration					
9:40	Opening Session	9:30	**Session6: Basic Techniques** Chairs: Tae-Kyun KIM, Yoshihisa IJIRI 4 talks	9:30	**Session11: 3D Measurement and Recovery** Chairs: Shinsaku HIURA, Takeshi MASUDA 4 talks
9:50	**Session1: Recognition and Identification** Chairs: Frank NIELSEN, Ichiro IDE 3 talks				
10:50	Break	10:50	Break	10:50	Break
11:00	**Session2:** IAPR Invited Talk 1 Towards Open-Universe Image Parsing with Broad Coverage **Prof. Svetlana LAZEBNIK** Chair: Yoichi SATO	11:00	**Session7:** IAPR Invited Talk 2 Development of Ultrahigh-Sensitivity HARP Pickup Tube and its Applications **Dr. Kenkichi TANIOKA** Chair: Katsushi IKEUCHI	11:00	**Session12:** IAPR Invited Talk 3 3D Vision Sensing Technologies in Factory Automation and Robotics **Dr. Mattias JOHANNESSON** Chair: Masaki SUWA
12:00	Lunch	12:00	Lunch	12:00	Lunch
13:40	**Session3: Health and Life** Chairs: Birgit MÖLLER, Hisae SHIBUYA 4 talks	13:40	**Session8: Outdoor Scene** Chairs: Bryan SCOTNEY, Abdelaziz KHIAT 4 talks	13:40	**Session13: Industry** Chairs: Du-Ming TSAI, Yoshinori KONISHI 2 talks
				14:20	**Session14:** Poster Session 3 25 posters
15:00	**Session4:** Poster Session 1 26 posters **Demo Session**	15:00	**Session9:** Poster Session 2 29 posters **Demo Session**		
				16:00	**Session15: Surveillance and Video retrieval** Chairs: Sinan KALKAN, Hitoshi HABE
16:40	**Session5: Facial Modeling** Chairs: Greg MORI, Ryuzo OKADA 4 talks	16:40	**Session10: Behavior Analysis** Chairs: Björn STENGER, Shotaro MIWA 4 talks	17:00	3 talks
				17:00	**Closing Session, Award Ceremony**
				17:30	
18:00		18:00			
				18:00	**Farewell Party**
				19:00	
		19:00	Banquet		
		21:00			