Final Program

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

**Monday, May 20, 2013**

**Tutorial Course** (13:00 - 17:00)
**Welcome Party** (17:30 - 21:00)

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**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 Mukanik, Michihiro 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 Endoscopic Images Using a Hessian Filter  
  "Yaji Iwahori, Takayuki Shinhara, 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 Segui, Ekaterina Zaytseva, Michal Drozdal, Carolina Malagelada, Fernando Azpiroz, Petia Radeva, Jordi Vitrià"  
  "(Spain)"

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

- **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 Subbiani"  
  "(Singapore)"

- **4-1 SwATrack: A Swarm Intelligence-based Arupt Motion Tracker**  
  "Mei Kaun 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 Suttapakorn, Kunthong 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-Yang Lin, Chin-Yu Hsu, Yang-Yang Chiang"  
  "(Taiwan)"

- **4-6 Scene Change Detection and Topological Map Construction Using Omnidirectional Image Sequences**  
  "Huei-Yang 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**  
  "Victor 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)"
Wednesday, May 22, 2013

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

6-1 Edge Detection with Automatic Scale Selection Approach to Improve Coherent Visual Attention Model
Jaaya 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-Thu Tran, Sarah All, 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. Kenikki 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 Khat

8-1 Vehicle Localization along a Previously Driven Route Using Image Database
Hideyuki Kume, Arne Suppe, 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)
Session 9: Poster Session2 (15:00 - 16:40)

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

9-2 Vision-based Cooperative Manipulation of Mobile Robots
Wen-Chang 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 Barsuc, Titus Zaharia (France)

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

9-8 Calibration of Projector with Fixed Pattern and Large Distortion Lens in a Structured Light System
Xingou 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, Daissuke Asai, Makoto Takeba (Japan)

9-10 Automatic Pupil Detection in Ophthalmology Diagnosis
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, Shu Tao Li (China)

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

9-13 Undetermined Approach to Real-Time Face Tracking and Recognition
Hisayoshi Chugan, Yuki Oka, Takeshi Shakanaga (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, Yasuhiko Mukaiigawa, 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
Masanori Yokomizo, Daissuke Miyazaki, Masashi Baba, Ryo Furukawa, Masahito Aoyama, Shinsaku Hiura, Naoki Asoada (Japan)

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

9-19 3D Keypoint Tracking Based on Hybrid Flow Computation for Human Motion Analysis
Sujung Bae, Sungun 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. Santos, Abdel Belaid (France)

9-22 Three-dimensional Block World Reconstruction from Monocular Images by Use of an Object-based Markov Random Field Model
Hotaka Takizawa, Daichi Tani (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 Sherstynuk, 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
Dieter Metternich, Alexandru Paul Condurache, Alfred Mertins (Germany)

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

9-28 Scan-Matching based 6DOF SLAM Using Omnidirectional 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, Moatzz 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
Azmiul Qalid Md Sabri, Jacques Boonaert, Stephane Lecoeuche, El Mustapha Mouaddib (France)

10-3 Continuous Action Recognition by Action-specific Motion Models
Koji Morimoto, Yoichi Matsuyama, Norimichi Ukitaka (Japan)
Thursday, May 23, 2013

Session 11: 3D Measurement and Recovery (9:30 - 10:50)
Chairs: Shinshaku 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 Yaqi (Japan)

Break (10:50 - 11:00)

Session 12: IAIPR 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 Kobno, Masaya Maeda, Tomoyuki Hamamura, Bunpei Irie (Japan)

14-3 Instant Surface Reconstruction for Incremental SFM
Kichang Kim, Takayuki Sugiiura, 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 Morii, 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 Independence
Cong Xia, Jiannsheng 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 Babot, Lukasz Jopek, Marcin Janaszewski (Poland)

14-16 Real-Time In-Plane Rotation Estimation of Pharmaceutical Tablets: a Feature Based Approach
Blaz Bratanič, Boštjan Likar, Franjo Permuš, Dejan Tomasevič (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 Kawahara (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.
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 Nijojomaе station. The fare is 210 JPY. The Banquet site is within 1-minute walk from the Nijojomaе station.
## MVA2013 Session table

<table>
<thead>
<tr>
<th>21 (Tue.)</th>
<th>22 (Wed.)</th>
<th>23 (Thu.)</th>
</tr>
</thead>
<tbody>
<tr>
<td>9:00</td>
<td>Registration</td>
<td>9:30</td>
</tr>
<tr>
<td>9:40</td>
<td>Opening Session</td>
<td>9:30</td>
</tr>
<tr>
<td>9:50</td>
<td><strong>Session1:</strong> Recognition and Identification</td>
<td>9:30</td>
</tr>
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<td>Chairs: Frank NIELSEN, Ichiro IDE</td>
<td>3 talks</td>
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<td>10:50</td>
<td>Break</td>
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<td>11:00</td>
<td><strong>Session2:</strong> IAPR Invited Talk 1</td>
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<td></td>
<td>Towards Open-Universe Image Parsing with Broad Coverage</td>
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<td><strong>Prof. Svetlana LAZEBNIK</strong></td>
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<td>Chair: Yoichi SATO</td>
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<td>12:00</td>
<td>Lunch</td>
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<td>13:40</td>
<td><strong>Session3:</strong> Health and Life</td>
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<td>Chairs: Birgit MÖLLER, Hisae SHIBUYA</td>
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<td>4 talks</td>
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<td>15:00</td>
<td><strong>Session4:</strong> Poster Session 1</td>
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<td>26 posters</td>
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<td><strong>Demo Session</strong></td>
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<td><strong>Session5:</strong> Facial Modeling</td>
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<td>Chairs: Greg MORI, Ryuuo OKADA</td>
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<td>4 talks</td>
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<td><strong>Session6:</strong> Basic Techniques</td>
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<td>Chairs: Tae-Kyun KIM, Yoshihisa IJIRI</td>
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<td><strong>Session7:</strong> IAPR Invited Talk 2</td>
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<td>Development of Ultrahigh-Sensitivity HARP Pickup Tube and its Applications</td>
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<td><strong>Dr. Kenkichi TANIOKA</strong></td>
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<td>Chair: Katsushi IKEUCHI</td>
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<td>21:00</td>
<td>Banquet</td>
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<td>22 (Wed.)</td>
<td>23 (Thu.)</td>
<td>24 (Thu.)</td>
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<td>9:30</td>
<td><strong>Session11:</strong> 3D Measurement and Recovery</td>
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<td>Chairs: Shinsaku HIURA, Takeshi MASUDA</td>
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<td><strong>Session12:</strong> IAPR Invited Talk 3</td>
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<td>3D Vision Sensing Technologies in Factory Automation and Robotics</td>
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<td><strong>Dr. Mattias JOHANNESSON</strong></td>
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<td>Chair: Masaki SUWA</td>
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<td>Chairs: Du-Ming TSAI, Yoshinori KONISHI</td>
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<td><strong>Session14:</strong> Poster Session 3</td>
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<td><strong>Session15:</strong> Surveillance and Video retrieval</td>
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<td>Chairs: Sinan KALKAN, Hitoshi HABE</td>
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<td>3 talks</td>
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<td>17:00</td>
<td><strong>Closing Session, Award Ceremony</strong></td>
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<tr>
<td>18:00</td>
<td>Farewell Party</td>
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<tr>
<td>19:00</td>
<td>Banquet</td>
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