

2016 IEEE International Conference on Identity, Security and Behavior Analysis (ISBA 2016)

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ISBA 2016

Program Schedule

Monday, February 29, 2016	
Monday 08:00—09:00	Registration Venue: Registration Desk, Sakura Hall
Monday 09:00—10:25	Tutorial: Personal Identification using Contactless Live 3D Finger Scans....N/A Speaker: Ajay Kumar (<i>The Hong Kong Polytechnic University, Hong Kong</i>) Venue: Meeting Room, Sakura Hall 2F
Monday 10:25—10:35	Coffee Break Venue: Foyer, Sakura Hall 2F 
Monday 10:35—12:00	Tutorial: Personal Identification using Contactless Live 3D Finger Scans (Contd.)....N/A Speaker: Ajay Kumar (<i>The Hong Kong Polytechnic University, Hong Kong</i>) Venue: Meeting Room, Sakura Hall 2F
Monday 12:00—14:00	Lunch Venue: Lounge, Sakura Hall 1F 
Monday 14:00—15:25	Tutorial: Continuous User Authentication on Mobile Devices....N/A Speaker: Vishal M. Patel (<i>Rutgers University, USA</i>) Venue: Meeting Room, Sakura Hall 2F
Monday 15:25—15:35	Coffee Break Venue: Foyer, Sakura Hall 2F 
Monday 15:35—17:00	Tutorial: Continuous User Authentication on Mobile Devices (Contd.)....N/A Speaker: Vishal M. Patel (<i>Rutgers University, USA</i>) Venue: Meeting Room, Sakura Hall 2F
Monday 17:30—19:00	Welcome Reception Venue: Lounge, Sakura Hall 1F
Tuesday, March 1, 2016	
Tuesday 08:30—09:30	Registration Venue: Registration Desk, Sakura Hall
Tuesday 09:00—09:20	Opening Ceremony Welcome by Conference Chairs Venue: Meeting Room, Sakura Hall 2F
Tuesday 09:20—10:20	Keynote Talk: Visual Understanding of Human Faces and Bodies....N/A Speaker: Takeo Kanade (<i>Carnegie Mellon University, USA</i>) Session Chair: Mark Nixon (<i>University of Southampton, UK</i>) Venue: Meeting Room, Sakura Hall 2F
Tuesday 10:20—10:40	Coffee Break Venue: Foyer, Sakura Hall 2F 





Tuesday 10:40—12:40	Oral Session 1: Face Recognition Session Chair: Angela Sasse (<i>University College London, UK</i>) Venue: Meeting Room, Sakura Hall 2F
	
O1	Robust Transgender Face Recognition: Approach based on Appearance and Therapy Factors....1 Vijay Kumar (<i>International Institute of Information Technology Hyderabad, India</i>), Raghavendra Ramachandra (<i>Gjøvik University College, Norway</i>), Anoop Nambodiri, (<i>International Institute of Information Technology Hyderabad, India</i>), Christoph Busch, (<i>Gjøvik University College, Norway</i>)
O2	Face Alignment via an Ensemble of Random Ferns....8 Xiang Xu, Shishir Shah, Ioannis Kakadiaris (<i>University of Houston, USA</i>)
O3	Recognizing Human Faces under Disguise and Makeup....16 Tsung Ying Wang, Ajay Kumar (<i>The Hong Kong Polytechnic University, Hong Kong</i>)
O4	Rendering or Normalization? An Analysis of the 3D-aided Pose-Invariant Face Recognition....23 Yuhang Wu, Shishir Shah, Ioannis Kakadiaris (<i>University of Houston, USA</i>)
O5	Quality Based Classification of Images for Illumination Invariant Face Recognition....31 Bharath Subramanyam, Piyush Joshi, Manoj Meena, Surya Prakash (<i>Indian Institute of Technology Indore, India</i>)
O6	Human Face Identification via Comparative Soft Biometrics....37 Nawaf Almuhammad, Mark Nixon, Jonathon Hare (<i>University of Southampton, UK</i>)
Tuesday 12:40—14:40	Lunch Venue: Lounge, Sakura Hall 1F
	
Tuesday 12:40—14:40	Student Lunch Meeting
	Talk: Starting a Biometrics Company: Riding the Commercialization Roller Coaster....N/A
	Speaker: Brian Lovell (<i>The University of Queensland, Australia</i>)
	Venue: 602 Meeting Room, RIEC Main Building 6F

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Program Schedule

Tuesday, March 1, 2016

Tuesday 14:40—16:40	
	Oral Session 2: Biometrics Session Chair: Pong Yuen (<i>Hong Kong Baptist University, Hong Kong</i>) Venue: Meeting Room, Sakura Hall 2F
O7	Selecting Discriminative Regions for Periocular Verification....43 Jonathon Smereka, Vijayakumar Bhagavatula (<i>Carnegie Mellon University, USA</i>), Andres Rodriguez (<i>Air Force Research Laboratory, USA</i>)
O8	Vein Point Cloud Registration Algorithm for Multi-Pose Hand Vein Authentication....51 Yong Qi, Ya Zhou, Xiaoming Hu, Chang Zhou, Xinran Hu (<i>Beijing Institute of Technology, China</i>)
O9	Ear Recognition after Ear Lobe Surgery: A Preliminary Study....57 Raghavendra Ramachandra, Kiran Raja, Christoph Busch (<i>Gjøvik University College, Norway</i>)
O10	Towards Human-assisted Signature Recognition: Improving Biometric Systems through Attribute-based Recognition....63 Derlin Morocho, Aythami Morales, Julian Fierrez, Ruben Vera-Rodriguez (<i>Universidad Autonoma de Madrid, Spain</i>)
O11	Combining Keystroke and Mouse Dynamics for Continuous User Authentication and Identification....69 Soumik Mondal, Patrick Bours (<i>Gjøvik University College, Norway</i>)
O12	Performance Analysis of Gait Recognition with Large Perspective Distortion....77 Fatimah Abdulsattar, John Carter (<i>University of Southampton, UK</i>)
Tuesday 16:40—18:10	
	Poster Session 1 and Coffee Break Venue: Lounge, Sakura Hall 1F 
P1	Robust Transgender Face Recognition: Approach based on Appearance and Therapy Factors....N/A Vijay Kumar (<i>International Institute of Information Technology Hyderabad, India</i>), Raghavendra Ramachandra (<i>Gjøvik University College, Norway</i>), Anoop Namboodiri, (<i>International Institute of Information Technology Hyderabad, India</i>), Christoph Busch, (<i>Gjøvik University College, Norway</i>)
P2	Face Alignment via an Ensemble of Random Ferns....N/A Xiang Xu, Shishir Shah, Ioannis Kakadiaris (<i>University of Houston, USA</i>)
P3	Recognizing Human Faces under Disguise and Makeup....N/A Tsung Ying Wang, Ajay Kumar (<i>The Hong Kong Polytechnic University, Hong Kong</i>)



P4	<p>Rendering or Normalization? An Analysis of the 3D-aided Pose-Invariant Face Recognition....N/A Yuhang Wu, Shishir Shah, Ioannis Kakadiaris (<i>University of Houston, USA</i>)</p>
P5	<p>Quality Based Classification of Images for Illumination Invariant Face Recognition....N/A Bharath Subramanyam, Piyush Joshi, Manoj Meena, Surya Prakash (<i>Indian Institute of Technology Indore, India</i>)</p>
P6	<p>Human Face Identification via Comparative Soft Biometrics....N/A Nawaf Almuadhaka, Mark Nixon, Jonathon Hare (<i>University of Southampton, UK</i>)</p>
P7	<p>Selecting Discriminative Regions for Periocular Verification....N/A Jonathon Smereka, Vijayakumar Bhagavatula (<i>Carnegie Mellon University, USA</i>), Andres Rodriguez (<i>Air Force Research Laboratory, USA</i>)</p>
P8	<p>Vein Point Cloud Registration Algorithm for Multi-Pose Hand Vein Authentication....N/A Yong Qi, Ya Zhou, Xiaoming Hu, Chang Zhou, Xinran Hu (<i>Beijing Institute of Technology, China</i>)</p>
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P19	<p>Sitting Posture Diagnosis Using a Pressure Sensor Mat....N/A Shunsuke Suzuki, Mineichi Kudo, Atsuyoshi Nakamura (<i>Hokkaido University, Japan</i>)</p>
Tuesday 16:40—18:10	<p>Student Poster Session and Coffee Break Venue: Lounge, Sakura Hall 1F</p>

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Program Schedule

Tuesday, March 1, 2016

Tuesday 19:00—21:00

Banquet Dinner



Banquet Dinner



Venue: Sendai Kokusai Hotel (Heisei, 2F)

Event

Shamisen Performance

Computer Vision Quiz
Mark Nixon (*University of Southampton, UK*)

Introduction to ISBA 2017

ISBA 2016 Awards



ISBA 2016 Best Paper Award
ISBA 2016 Best Student Paper Award
ISBA 2016 Special Contribution Award
ISBA 2016 Best Reviewers Awards



Shamisen Performance



Sushi



Gyutan



Oyster



Zunda Mochi



Wednesday, March 2, 2016	
Wednesday 08:30—09:30	Registration Venue: Registration Desk, Sakura Hall
Wednesday 09:00—11:00	Oral Session 3: Mobile and Cloud Applications Session Chair: Masakatsu Nishigaki (<i>Shizuoka University, Japan</i>) Venue: Meeting Room, Sakura Hall 2F
O13	Deep Feature-based Face Detection on Mobile Devices....83 Sayantan Sarkar (<i>University of Maryland, USA</i>), Vishal Patel (<i>Rutgers University, USA</i>), Rama Chellappa (<i>University of Maryland, USA</i>)
O14	On Motion-Sensor Behavior Analysis for Human-Activity Recognition via Smartphones....91 Chao Shen, Yufei Chen, Gengshan Yang (<i>Xi'an Jiaotong University, China</i>)
O15	Assessing Vulnerability of Dorsal Hand-Vein Verification System to Spoofing Attacks Using Smartphone Camera....97 Ishan Patil, Shruti Bhilare, Vivek Kanhangad (<i>Indian Institute of Technology Indore, India</i>)
O16	Iris Recognition with a Database of Iris Images Obtained in Visible Light Using Smartphone Camera....103 Mateusz Trokielewicz (<i>Research and Academic Computer Network, Poland</i>)
O17	Accessibility Evaluation of a Mobile Biometric Recognition System....109 Ramon Blanco-Gonzalo, Raul Sanchez-Reillo, Carlos Sanchez-Redondo (<i>University Carlos III of Madrid, Spain</i>), Jose Luis Alonso-Aguilera (<i>Quental, Spain</i>)
O18	"I Don't Like Putting My Face on the Internet!": An Acceptance Study of Face Biometrics as a CAPTCHA Replacement....115 Kat Krol, Simon Parkin, Angela Sasse (<i>University College London, UK</i>)
Wednesday 11:00—11:20	Coffee Break Venue: Foyer, Sakura Hall 2F 
Wednesday 11:20—12:20 	Keynote Talk: Gait Video Analysis and Its Applications...N/A Speaker: Yasushi Yagi (<i>Osaka University, Japan</i>) Session Chair: Takafumi Aoki (<i>Tohoku University, Japan</i>) Venue: Meeting Room, Sakura Hall 2F
Wednesday 12:20—13:20	Lunch Venue: Lounge, Sakura Hall 1F 

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Program Schedule

Wednesday, March 2, 2016	
Wednesday 13:20—15:20 	Oral Session 4: Behaviors, Surveillance and Security Session Chair: Pong Yuen (<i>Hong Kong Baptist University, Hong Kong</i>) Venue: Meeting Room, Sakura Hall 2F
O19	Sitting Posture Diagnosis Using a Pressure Sensor Mat....122 Shunsuke Suzuki, Mineichi Kudo, Atsuyoshi Nakamura (<i>Hokkaido University, Japan</i>)
O20	Spotting Fingerspelled Words from Sign Language Video by Temporally Regularized Canonical Component Analysis....128 Shohei Tanaka, Akio Okazaki, Nobuko Kato, Hideitsu Hino, Kazuhiro Fukui (<i>University of Tsukuba, Japan</i>)
O21	Determining the Best Attributes for Surveillance Video Keywords Generation....135 Liangchen Liu, Arnold Wiliem, Shaokang Chen, Kun Zhao, Brian Lovell (<i>University of Queensland, Australia</i>)
O22	Soft Biometric Retrieval to Describe and Identify Surveillance Images....142 Daniel Martinho-Corbishley, Mark Nixon, John Carter (<i>University of Southampton, UK</i>)
O23	Thermal Handprint Analysis for Forensic Identification Using Heat-Earth Mover's Distance....148 Kun Woo Cho, Feng Lin, Chen Song, Xiaowei Xu (<i>SUNY at Buffalo, USA</i>), Fuxing Gu (<i>University of Shanghai for Science and Technology, China</i>), Wenyao Xu (<i>SUNY at Buffalo, USA</i>)
O24	Linebased End-to-Display Encryption for Secure Documents....156 Sebastian Burg (<i>University of Tuebingen, Germany</i>), Pranav Channakeshava (<i>National Institute of Technology Karnataka, India</i>), Oliver Bringmann (<i>University of Tuebingen, Germany</i>)
Wednesday 15:20—16:50	Poster Session 2 and Coffee Break Venue: Lounge, Sakura Hall 1F 
P13	Deep Feature-based Face Detection on Mobile Devices....N/A Sayantan Sarkar (<i>University of Maryland, USA</i>), Vishal Patel (<i>Rutgers University, USA</i>), Rama Chellappa (<i>University of Maryland, USA</i>)
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<p>Wednesday 16:50—17:50</p> 	<p>Panel session: “Identity, Security and Behaviour Analysis: Where Will We be in 10 Years?”N/A Session Chair: Mark Nixon (<i>University of Southampton, UK</i>) Venue: Meeting Room, Sakura Hall 2F</p> <p>Panelist: Angela Sasse (<i>University College London, UK</i>), Ioannis Kakadiaris (<i>University of Houston, USA</i>), Daigo Muramatsu (<i>Osaka University, Japan</i>)</p>
<p>Wednesday 17:50—18:00</p>	<p>Closing Ceremony Venue: Meeting Room, Sakura Hall 2F</p>