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Video Surveillance and Transportation
Imaging Applications 2016

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Editor:

Eli Saber

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Video Surveillance and Transportation Imaging Applications 2016

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Monday, February 15, 2016

Pedestrian and Position Detection

Session Chair: Sreenath Vantaram, Intel Corporation (USA)

8:50 – 10:20 am

Golden Gate 3

8:50

Chair Remarks

9:00

VSTIA-511

Histograms of Oriented Phase and Gradient (HOPG) descriptor for improved pedestrian detection, Hussin K. Ragb and Vijayan K. Asari, University of Dayton (USA)

9:20

VSTIA-512

Pedestrian's intention prediction based on Fuzzy Finite Automata and spatial-temporal features, Joon-Young Kwak, Eun Ju Lee, Byoung Chul Ko, and Mira Jeong, Keimyung University (South Korea)

9:40

VSTIA-513

Tracking and estimating tridimensional position through camera-PT array, Edrei Reyes-Santos, Hugo Jimenez-Hernandez, Leonardo Barriga-Rodríguez, JA Soto-Cajiga, Herlindo H. Ramirez, and F. Carrizosa-Corral, CIDESI (Mexico)

10:00

VSTIA-514

A real-time system for shoppers' action recognition, Srenivas Varadarajan, Intel Corporation (India) and Shahrokh Shahidzadeh, Intel Corporation (USA)

10:20 – 10:50 am Coffee Break

Vehicle Classification and Recognition

Session Chair: Mustafa Jaber, NantVision Inc. (USA)

10:50 AM – 12:00 pm

Golden Gate 3

10:50

Chair Remarks

11:00

VSTIA-515

Vehicle type recognition in video using multiple-feature combinations, Quang A. Nguyen, Martins E. Irhebhude, Mohamad A. Ali, and Eran A. Edirisinghe, Loughborough University (United Kingdom)

11:20

VSTIA-516

Camera-based vehicle speed estimation for speed correction in x-ray vehicle scanning systems, Basak Oztan¹ and Lei Fan²; ¹American Science & Engineering Inc. and ²Rochester Institute of Technology (USA)

11:40

VSTIA-517

Detection and classification of vehicles in varying complexity of urban traffic scenes, Muhammad Umair Arif¹, Zain Lodhi¹, Maheen Khan², and Rana Raza¹; ¹National University of Science and Technology and ²Bahria University (Pakistan)

12:00 – 2:00 pm Lunch Break

EI 2016 Opening Plenary and Symposium Awards

Session Chair: Choon-Woo Kim (Inha University)

2:00 – 3:00 PM

Continental Ballroom 5

Illuminating a bright future for medicine, Audrey K. Bowden,
Stanford University (USA)

3:00 – 3:30 pm Coffee Break

Detection, Visualization, and Tracking

Session Chair: Eli Saber, Rochester Institute of Technology (USA)

3:30 – 4:40 pm

Golden Gate 3

3:30 VSTIA-518

Arrayed laser image contrast evaluation (Alice) for human body detection, Hisashi Watanabe and Tsuguhiro Korenaga, Panasonic Corporation (Japan)

3:50 VSTIA-519

Discovering and visualizing underlying traffic regions from vehicle trajectories with multi-features (JIST-first), Dongjin Yu, Ruijing Wang, Jiaojiao Wang and Wanqing Li, Hangzhou Dianzi University (China)

4:10 VSTIA-520

Vector road map registration to oblique wide area motion imagery by exploiting vehicle movements, Ahmed Elliethy and Gaurav Sharma, University of Rochester (USA)

4:30

Chair Remarks

5:00 – 6:00 pm EI 2016 Symposium Reception