Program of The 2nd International Workshop on Computer Vision for Physiological Measurement (CVPM)

In conjunction with IEEE-ICCV 2019

Date: October 28, 2019 (full-day workshop)

Location: Room E4, COEX Convention Center, Seoul, Republic of Korea

8:50 – 9:00 AM	Opening remarks of organizers

Wenjin Wang (*Philips Research, TU Eindhoven*), Daniel McDuff (*Microsoft Research*)

9:00 – 10:00 AM	Spotlight session 1 (8 min content + 2 min Q&A): vital signs and activity monitoring
Marian Bittner *VicarVision, TU Delft*	Efficient real-time Estimation of Heart Rate & its Variability
Christian Pilz *CanControls GmbH, RWTH Aachen*	On the Vector Space in Photoplethysmography Imaging
Yuan-Hsiang Lin *National Taiwan University of Science and Technology*	A Thermal Camera based Continuous Body Temperature Measurement System
Ilde Lorato *TU Eindhoven*	Camera-based On-line Short Cessation of Breathing Detection
Wenjin Wang *Philips Research, TU Eindhoven*	Modeling on the feasibility of camera-based blood glucose measurement
Tal Hakim *University of Haifa*	A-MAL: Automatic Motion Assessment Learning from Properly Performed Motions in 3D Skeleton Videos
10:00 – 10:30 AM	**Coffee break**
10:30 – 11:30 AM	**Invited keynote (50 min content + 10 min Q&A)**
Prof. Alexei Kamshilin *ITMO University*	Physiological parameters defining formation of camera-based photoplethysmogram
11:30 – 12:30 PM	Spotlight session 2 (8 min content + 2 min Q&A): vital signs and activity monitoring
Changchen Zhao *Zhejiang University of Technology*	Performance Evaluation of Visual Object Detection and Tracking Algorithms Used in Remote Photoplethysmography
Mikhail Kopeliovich *Southern Federal University*	Architectural Tricks for Deep Learning in Remote Photoplethysmography
Ewa Nowara *Rice University*	Combating the Impact of Video Compression on Non-Contact Vital Sign Measurement using Supervised Learning

Gašper Slapničar *Jožef Stefan Institute*	Contact-free Monitoring of Physiological Parameters in People with Profound Intellectual and Multiple Disabilities
Thomas Smith *University of Nottingham*	Clinical Scene Segmentation with Tiny Datasets
Dima Damen *University of Bristol*	Who Goes There? Exploiting Silhouettes and Wearable Signals for Subject Identification in Multi-Person Environments
12:30 – 14:00 PM	**Lunch break**
14:00 – 15:00 PM	**Invited keynote (50 min content + 10 min Q&A)**
Prof. Bart M. ter Haar Romeny *TU Eindhoven*	Vision for Vision: deep learning to find early signs of retinal disease to save vision, and learning from vision to better understand deep learning
15:00 – 16:00 PM	**Spotlight session 3 (8 min content + 2 min Q&A): affective computing**
Siyang Song *University of Nottingham*	Dynamic Facial Models for Video-based Dimensional Affect Estimation
Gemma Roig *SUTD, MIT*	Multimodal Deep Models for Predicting Affective Responses Evoked by Movies
Zhipeng Bao *Tsinghua University*	Single-Image Facial Expression Recognition Using Deep 3D Re-Centralization
Steven Fernandes *University of Central Florida*	Predicting Heart rate Variations of Deepfake Videos using Neural ODE
Hadas Shahar *University of Haifa*	Micro Expression classification using facial color and deep learning methods
Vincent Fleischhauer *University of Applied Sciences and Arts Dortmund*	Impact of Sympathetic Activation in Imaging Photoplethysmography
16:00 – 16:10 PM	**Best paper announcement and close ceremony**

Wenjin Wang (*Philips Research, TU Eindhoven*), Daniel McDuff (*Microsoft Research*)

16:10 – 16:30 PM	**Coffee break**
18:00 –	**Dinner or drink (if no activities arranged by ICCV)**

On voluntary basis of the participant.