

# **IS&T International Symposium on Electronic Imaging Science and Technology 2016**

Mobile Devices and Multimedia: Enabling  
Technologies, Algorithms, and  
Applications 2016

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**Editors:**

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David Akopian**

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## Mobile Devices and Multimedia: Enabling Technologies, Algorithms, and Applications 2016

Wednesday, February 17, 2016

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### Mobile Devices and Multimedia: Enabling Technologies, Algorithms, and Applications 2016 Interactive Papers Session

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5:30 – 7:00 pm

Continental Ballroom 6

The following works will be presented at the EI 2016 Symposium Interactive Papers Session.

MOB MU-284

**Concept for software-based configuration of the organizational and technical security of a company of any size**, Thomas Möller<sup>1</sup>, Knut Bellin<sup>2</sup>, and Reiner Creutzburg<sup>2</sup>; <sup>1</sup>Assecor GmbH (Germany) and <sup>2</sup>Brandenburg University of Applied Sciences

MOB MU-285

**Semi-automatic generation of multilingual lecture notes - Wikipedia books for algorithms and data structure courses in various languages**, Reiner Creutzburg, Brandenburg University of Applied Sciences (Germany)

MOB MU-286

**RED color spaces demystified - reverse engineering of RED gamma and RED color by spectral analysis of Xrite color charts and RED Scarlet-X Camera recordings**, Eberhard Hasche, Patrick Ingwer, Reiner Creutzburg, Thomas Schrader, Frederick Laube, and Timo Sigwarth, Brandenburg University of Applied Sciences (Germany)

MOB MU-287

**Algorithm of out-of-band radiation reduction**, V. P. Fedosov<sup>1</sup>, V. V. Voronin<sup>2</sup>, R. V. Rubtsov<sup>1</sup>; <sup>1</sup>Southern Federal University and <sup>2</sup>Don State Technical University (Russian Federation)

MOB MU-288

**Advanced features for messaging solutions for mobile health promotion research**, David Akopian, Jafet Morales, Rodrigo Escobar, Suraj Sankarawarrier, and Kavya Choppa, University of Texas at San Antonio (USA)

MOB MU-289

**Digital inpainting with applications to forensic image and video processing**, V.V. Voronin<sup>1</sup>, V.I. Marchuk<sup>1</sup>, and E.A. Semenishchev<sup>1</sup>, S.V. Makov<sup>1</sup>, Reiner Creutzburg<sup>2</sup>; <sup>1</sup>Don State Technical University (Russian Federation) and <sup>2</sup>Fachhochschule Brandenburg (Germany)

MOB MU-290

**Energy efficient algorithm for lookup-tables on mobile devices**, Sergey Makov, Vladimir Frantc, Viacheslav Voronin, Vladimir Marchuk, and Evgeny Semenishchev, Don State Technical University (Russian Federation)

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### EI 2016 Symposium Interactive Papers Session

5:30 – 7:00 PM

Continental Ballroom 6

Thursday, February 18, 2016

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### Emerging Mobile Applications

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Conference Chairs: David Akopian, The University of Texas at San Antonio (USA) and Reiner Creutzburg, Fachhochschule Brandenburg - Brandenburg University of Applied Sciences (Germany)

8:50 – 10:10 am

Golden Gate 5

8:50

MOB MU-291

**Contactless palm landmark detection and localization on mobile devices**, Yaqi Wang, Liangrui Peng, Shengjin Wang, and Xiaoqing Ding, Tsinghua University (China)

9:10

MOB MU-292

**RECfusion: Automatic scene clustering and tracking in videos from multiple sources**, Filippo L.M. Milotta<sup>1</sup>, Sebastiano Battiato<sup>1</sup>, Filippo Stanco<sup>1</sup>, Valeria D'Amico<sup>2</sup>, Giovanni Torris<sup>2</sup>, and Luca Addesso<sup>2</sup>; <sup>1</sup>University of Catania and <sup>2</sup>Telecom Italia JOL WAVE (Italy)

9:30

MOB MU-293

**Improving the RDP based applications by using HTML5 content representation**, Rama Rao Ganji<sup>1</sup>, Mihai Mitrea<sup>1,2</sup>, Dancho Panovski<sup>1</sup>, and Bojan Joveski<sup>2</sup>; <sup>1</sup>Telecom-SudPars; Institut Mines-Telecom (France) and <sup>2</sup>Ustartapp

10:10 – 10:50 am Coffee Break

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### Mobile Applications for Broader Impact and Infrastructure

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Conference Chairs: David Akopian, The University of Texas at San Antonio (USA) and Reiner Creutzburg, Fachhochschule Brandenburg - Brandenburg University of Applied Sciences (Germany)

10:50 am – 12:30 pm

Golden Gate 5

10:50

MOB MU-295

**3D reconstruction of buildings and landscapes - evaluation of quality parameters and optimization of mission planning using RPAS**, Stefan Schön, Patrick Ingwer, Arno Fischer, Martin Schafföner, Eberhard Hasche, and Reiner Creutzburg, Brandenburg University of Applied Sciences (Germany)

11:10

MOB MU-296

**Comparative visualization of geometry of a hollow box girder using 3D-LiDAR – Part 1: Cross sectional area**, Jenny Knackmuß<sup>1</sup>, Stefan Maack<sup>2</sup>, Reiner Creutzburg<sup>1</sup>; <sup>1</sup>Brandenburg University of Applied Sciences and <sup>2</sup>Bundesanstalt für Materialforschung und -prüfung (Germany)

11:30

MOB MU-297

**Supplementation of LiDAR scans with Structure from Motion (SfM) data**, Fabian Gassen Eberhard Hasche, Patrick Ingwer, and Reiner Creutzburg, Brandenburg University of Applied Sciences (Germany)

11:50

MOBMU-298

**Digital photonic measurements for high tech strategy 2020**, Paul-Gerald Dittrich and Dietrich Hofmann, SpectroNet c/o Technology and Innovation Park Jena GmbH (Germany)

12:10

MOBMU-299

**Turbo fusion of LPQ and HOG feature sets for indoor positioning using smartphone camera**, Jichao Jiao, Zhongliang Deng, Jun Mo, and Cheng Li, Beijing University of Posts and Telecommunications (China)

12:30 – 2:00 pm      Lunch Break

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### Mobile Platforms and Algorithms

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Conference Chairs: David Akopian, The University of Texas at San Antonio (USA) and Reiner Creutzburg, Fachhochschule Brandenburg - Brandenburg University of Applied Sciences (Germany)

**2:00 – 3:20 pm**

Golden Gate 5

2:00

MOBMU-300

**Musical instruments simulation on mobile platform**, Xunyu Pan<sup>1</sup>, Jacob Wilson<sup>1</sup>, Megan Balukoff<sup>1</sup>, Anyi Liu<sup>2</sup>, and Wenjuan Xu<sup>1</sup>; <sup>1</sup>Frostburg State University and <sup>2</sup>Indiana University–Purdue University Fort Wayne (USA)

3:00

MOBMU-303

**MultiMo: a multimodal university evaluation software designed for high response rates and usability** - Sebastian Müller, Max Gregor, Raoul van Rüschen, Rico Wildenhein, Reiner Creutzburg, and Martin Christof Kindsmüller, Brandenburg University of Applied Sciences (Germany)