

## Emerging Technologies Talks

29 – 30 November 2017

Bangkok Int'l Trade & Exhibition Centre (BITEC)

Venue: BHIRAJ Hall 3 - Experience Hall (Emerging Technologies Talk)

Date: [Wednesday, 29 November 2017](#)

### **Emerging Technologies Talk Welcome and Introduction**

(Including an overview of review process and results)

13:00 – 13:15

- Emerging Technologies Chair - Takuji Narumi University of Tokyo, Japan
- Emerging Technologies Co-Chair - Borom Tunwattanapong Ratchathani University, Thailand

### **Emerging Technologies Talk 1: Mixing Up Realities**

13:15 – 14:15

#### **SharedSphere: MR Collaboration through Shared Live Panorama**

- Gun Lee, University of South Australia, Australia
- Theophilus Teo, University of South Australia, Australia
- Seungwon Kim, University of South Australia, Australia
- Mark Billingham, University of South Australia, Australia

#### **CoVAR: A Collaborative Virtual and Augmented Reality System for Remote Collaboration**

- Thammathip Piumsomboon, University of South Australia, Australia

#### **Magic Table: Deformable Props Using Visuo Haptic Redirection**

- Junya Mizutani, The University of Tokyo, Japan
- Keigo Matsumoto, The University of Tokyo, Japan
- Takeru Hashimoto, The University of Tokyo, Japan
- Hibiki Yonahara, The University of Tokyo, Japan
- Ryohei Nagao, The University of Tokyo, Japan

#### **Mobius Walker: Pitch and Roll Redirected Walking**Tatsuki Yamamoto

- Isamu Ohashi, *The University of Tokyo, Japan*
- Jumpei Shimatani, *The University of Tokyo, Japan*
- Keigo Matsumoto, *The University of Tokyo, Japan*

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### **Emerging Technologies Talk 2: Magic of Light**

14:30 – 15:30

#### **Enhanced Shadow Play with Neural Networks**

- *Kiattiyot Panichprecha, Bit Studio, Thailand*
- *Isarun Chamveha, Bit Studio, Thailand*
- *Chatavut Viriyasuthee, Bit Studio, Thailand*

#### **Demonstration of the Unphotogenic Light: Protection from Secret Photography by Small Cameras**

- *Ippei Suzuki, University of Tsukuba, Japan*
- *Yoichi Ochiai, University of Tsukuba, Japan*

#### **3D Communication System Using Slit Light Field**

- *Tomo Tanoue, Osaka University, Japan*

#### **Swinging 3D Lamps: A Projection Technique to Create 3D Illusions on a Static 2D Image**

- *Nami Ogawa, The University of Tokyo, Japan*

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### **Emerging Technologies Talk 3: Feeling Good**

13:00 – 14:00

#### **ThermoReality: Thermally Enriched Head Mounted Displays for Virtual Reality**

- *Roshan Peiris, Keio University Graduate School of Media Design, Japan*
- *Zikun Chen Keio University Graduate School of Media Design, Japan*
- *Peng Wei, Keio University Graduate School of Media Design, Japan*
- *Kouta Minamizawa, Keio University Graduate School of Media Design, Japan*

#### **HapBelt: Haptic Display for Presenting Vibrotactile and Force Sense using Belt Winding Mechanism**

- *Takuto Nakamura, The University of Electro-Communications, JSPS Research Fellow, Japan*
- *Vibol Yem, Hiroyuki Kajimoto, The University of Electro-Communications, Japan*

#### **Interactive Midair Odor Control via Ultrasound-Driven Air Flow**

- *Keisuke Hasegawa, The University of Tokyo, Japan*
- *Liwei Qiu, The University of Tokyo, Japan*
- *Hiroyuki Shinoda, The University of Tokyo, Japan*

#### **OptRod: Operating Multiple Various Actuators Simultaneously by Projected Images**

- *Ryo Shirai, Osaka University, Japan*
- *Yuichi Itoh, Osaka University, Japan*
- *Taichi Fukamachi, Osaka University, Japan*
- *Mayu Yamashita, Osaka University, Japan*
- *Takao Onoye, Osaka University, Japan*

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### **Emerging Technologies Talk 4: Embodied Interaction**

14:20 – 15:20

#### **Tangible UI by Object and Material Classification with Radar**

- *Hui-Shyong Yeo, University of Saint Andrews, UK*

#### **Computational Foresight: Realtime Forecast of Human Body Motion**

- *Yuuki Horiuchi, The University of Tokyo, Japan*

#### **Telewheelchair: A Demonstration of the Intelligent Electric Wheelchair System towards Human-Machine**

- *Satoshi Hashizume, University of Tsukuba, Japan*
- *Ippei Suzuki, University of Tsukuba, Japan*
- *Kazuki Takazawa, University of Tsukuba, Japan*
- *Yoichi Ochiai, University of Tsukuba, Japan*
- *Yoshikuni Hashimoto, AISIN SEIKI Co., Ltd, Japan*
- *Ryuichiro Sasaki, AISIN SEIKI Co., Ltd, Japan*

#### **EgoScanning: Quickly Scanning First-Person Videos with Egocentric Elastic Timelines**

- *Keita Higuchi, The University of Tokyo, Japan*

### **Emerging Technologies Prize Ceremony**

15:20 – 15:40

- Emerging Technologies Chair - Takuji Narumi University of Tokyo, Japan
- Emerging Technologies Co-Chair - Borom Tunwattanapong Ratchathani University, Thailand