21st SANKEN International Symposium

16th SANKEN Nanotechnology International Symposium
5th Kansai Nanoscience and Nanotechnology International Symposium
13th Handai Nanoscience and Nanotechnology International Symposium

AI Evolution in Science and Technology

Program

Jan. 16, 2018

10:00-10:30   Yutaka Nakamura   (Osaka Univ. Japan)
Reinforcement Learning to Human Robot Interaction in a Real Environment

10:30-11:10   Alexander Rudnicky   (Carnegie Mellon Univ. USA)
Blended Conversations

11:10-11:40   Hideki Kato   (Team DeepZen, Japan)
The Current State of AI in the Game of Go

11:40-12:10   Genki Yoshikawa   (NIMS, Japan)
Nanomechanical Sensors (MSS, AMA) with AI toward Olfactory IoT Sensing Systems

12:10-13:10   Lunch

13:10-14:40   Poster session

14:50-15:20   Yuki Watanabe   (Toshiba Memory Corporation, Japan)
Accurate Lithography Simulation Model based on Convolutional Neural Networks

15:20-16:00   Ross King   (Univ. of Manchester, UK)
The Automation of Science

16:00-16:30   Yasukazu Murakami   (Kyushu Univ. Japan)
Toward Ultrahigh Precision of Electron Holography: Imaging of Electromagnetic Field in Nanostructure Materials

16:30-16:50   Coffee Break

16:50-17:20   Yasushi Makihara   (ISIR, Osaka Univ. Japan)
Joint Intensity and Spatial Metric Learning for Robust Gait Recognition

17:20-17:50   Yuji Ito   (Kagoshima Univ. Japan)
Peptide and Antibody Mining of Phage Libraries Using High-throughput Sequencing

17:50-18:30   Takeo Kanade   (Carnegie Mellon Univ. USA)
Many-Camera Technologies and Tracking Human Actions

18:40-20:30   Banquet

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9:50-10:20   Daisuke Fujita   (NIMS, Japan)
Informatics for Materials and Analysis Technology - Current Status and Prospect

10:20-11:00   Dimitrios Peroulis   (Purdue Univ. USA)
Multifunctional RF Frontends for High-Frequency AI Sensors

11:00-11:15   Coffee Break

11:15-11:55   Akihiro Kishimoto   (IBM Research, Ireland)
AI Challenges in Chemistry

11:55-12:25   Takashi Washio   (ISIR, Osaka Univ. Japan)
Nanoscale and Ultratrace Sensing using Measurement Oriented Machine Learning

12:25-13:05   Bartosz A. Grzybowski   (UNIST, Korea and Polish Academy of Sciences, Poland)
Chematica: What Does It Take to Teach Computer to Plan Organic Syntheses?