

IEEE SMC Conference, Banff, Canada

PROGRAM OF INDUSTRIAL APPLICATION TRACK

October 5, 2017

Overview

9:00 – 10:15	Session #1 (Room 201) Intelligent Automation and Decision Support I
9:00 – 10:15	Session #2 (Room 205) Cognition and Biomedical Applications I
10:15 – 10:30	Coffee Break
10:30 – 11:30	Session #3 (Room 201) Intelligent Automation and Decision Support II
10:30 – 11:30	Session #4 (Room 205) Cognition and Biomedical Applications II
11:30 – 13:30	Lunch Break
1:30 – 15:00	Session #5 (Room 201) Cognition and Biomedical Applications III
15:00 – 15:30	Coffee Break
15:30 – 17:00	Session #6 (Room 201) Industrial Applications Panel Intelligent Autonomy and Robotics

Detailed Schedule of Talks

Session #1: Intelligent Automation and Decision Support I

9:00 am - 10:15 am

Room 201

Session Chair: Masayuki Kawamoto

Applying a Heuristic-Based Scheduling Framework in Manufacturing, Service, and Communication Domains (1068)

Jeremy Ludwig, Robert Richards, Annaka Kalton, Richard Stottler

Compiling Static Software Metrics for Reliability and Maintainability from GitHub Repositories (1005)

Jeremy Ludwig, Steven Xu, Frederick Webber

Inventorum: a platform for open innovation (1179)

Jaroslav Protasiewicz

Session #2: Cognition and Biomedical Applications I

9:00 am - 10:15am

Room 205

Session Chair: Jennifer Schumacher

EEG Coupling Features: Towards Mental Workload Measurement Based on Wearables (1063)

Alexandre Drouin-Picaro, Isabela M. Carneiro de Albuquerque, Jean-François Gagnon, Daniel Lafond, Tiago H. Falk

Human-In-The-Loop Evaluation of Human-Machine Interface for Power Plant Operators (1112)

So Young Kim, Seunghyun Lee, David Gilmore

Design and Analysis of a New Gear-Driven Compliant Torsional Spring for Upper-Limb Biomedical Rehabilitation Device (1058)

Ngoc Le Chau, Shyh-Chour Huang, Hieu Giang Le, Thanh-Phong Dao

Coffee break (10:15 – 10:30)

Session #3: Intelligent Automation and Decision Support II

10:30am - 11:30pm

Room 201

Session Chair: Jianbo Lu

Predictive Modeling of Lapse Risk: An International Financial Services Case Study (1200)

Ceni Babaoglu, Uzair Ahmad, Afsah Q. Durrani, Ayse Bener

Seam Tracking in Automated Welding (1146)

Keyvan Kasiri, Ahmed Gawish, Paul Fieguth

Session #4: Cognition and Biomedical Applications II

10:30am - 11:30pm

Room 205

Session Chair: Jennifer Schumacher

Estimation Distribution Algorithms Combining Differential Mutation for Multi-objective Optimization Problems (1039)

Shujun Gao, Clarence de Silva

Estimating High Definition Map Parameters with Convolutional Neural Networks (1090)

Sebastian A. Bittel, Timo Rehfeld, Michael Weber, Marius Zöllner

Session #5: Cognition and Biomedical Applications III

1:20pm - 2:50pm

Room 201

Session Chair: Tiago Falk

Multimodal Interaction in Augmented Reality (1072)

Zhaorui Chen, Jinzhu Li, Yifan Hua, Rui Shen, Anup Basu

Cognitive interaction: Towards "cognitivity" requirements for the design of virtual assistants (1130)

Denys Bernard

Medical Image Compression based on Region of Interest using Better Portable Graphics (BPG) (1221)

David Yee, Sara Soltaninejad, Deborsi Hazarika, Gaylord Mbuyi, Rishi Barnwal

Session #6: Industrial Applications Panel: Intelligent Autonomy and Robotics

3:00pm - 4:30pm

Room 201

Panel Session Co-Organizers & Chairs: Robert Kozma and Liu Qiao

Panelists: Mark Kawamoto (Tsukuba), Jianbo Lu (Ford), Jeremy Ludwig (Stottler Henke Inc), Mike McCourt (U Washington), Mario Santillo (Ford), Jennifer Schumacher (3M).

POSTER Session (5KC203)

A Consideration on Responsiveness Evaluation for an Excavator Based on Control Engineering Approach (1133)

Koiwai, Kazushige, Miyazaki, Ryunosuke, Yamamoto, Toru Ueda, Koji, Yamazaki, Yoichiro

Evaluation of Effectiveness of Interface Modality for Remotely-Controlled Locomotives (1142)

Kim, So Young, Subrahmanian, Neeraja, Brooks, James

Research on Financing Efficiency of Strategic Emerging Industries in China-Based on the Multi-stage DEA Model (1015)

Geng, Chengxuan, Wang, Qiong, E, Haitao, Li, Meng

Research on Profit Model of Sohu Company (1021)

Qiu, Dongfang, Tang, Tiantian, Qiu, Ming

Industrial Talks: Smart Grid and Smart City

Room: KC 101-103

Time: October 7 (Saturday) 1:30 pm - 3:00 pm

Organizer: Loi Lei Lai

Speakers: Loi Lei Lai (Guangzhou U), Chung Sing Lai (Oxford)