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(optional) Morning Locomotion (Meeting at Haldenegg)

Breakfast

Keynote FieldRobotics

Salah Sukkarieh

Session Systems and Tools

Design and Development of Explosion-proof Tracked Vehicle for Inspection of Offshore Oil Plant

Koji Nagatani, Daisuke Endo, Atsushi Watanabe and Eij Koyanagi

Field Experiments in Robotic Subsurface Science and Long Duration Autonomy

Srinivasan Vijayarangan, David Kohanbakh, Graydon Fof, Kris Zarey, Nathalie Cabrol and David Wettergreen

Coffee

Highlight Talks 2

Trajectory Optimization for Dynamic Grasping in Space using Adhesive Grippers

Rachana MacPherson, Benjamin Hochman, Andrew Bryant, Matthew A. Estrada, Mark B. Cuffey, and Marco Pavone

High-Throughput Robotic Phenotyping of Genetic Datasets

Christopher J. Campbell, Kaitlyn Smith, Prathamesh Kulkarni, James Bostrom, Aaron Cho, Wang An, Benjamin Doolin, Dennis App

Evaluation of Optimal Time-Offset Estimation and Model-Free Calibration on Robotic Datasets

Faith Furrer, Marco Foll, Toshihiro Kato, Wataru Shimizu, and Roland Siegwart

Autonomous and Safe Inspection of an Industrial Warehouse by a Multi-Robot SVT

Alexandre Tordes, Julien Marzat, Martial Sanfourche, Julien Moras and Sylvain Bertrand

A Suboptimal Inverse Reinforcement Learning Algorithm using Planes as Features

Jun Wang, Jingnan Song, Liang Zhao and Shoukang Peng

Informed Stochastically Near-Optimal Planning for Field Robots with Dynamics

Zakary Littlefield and Kostas Bekris

Design and Development of Factor-Neutral Multi-Robot Mission-Managed Aerial Vehicle System for Remote-Controlled Construction Machine

Georg Kirchmayr, Rami Fakhry and Kai Inghelbrecht

Using Semantic-Based Experience to Prevent Link Failures

Nathan Ramdady, Denis Silar, Amer Bouaghaoui and Beatrice Franzke

interactive session of all 5min talks  
(RG F26.1, F26.2, F26.5)

Lunch (Menu), Coffee (SEF)

Session Machine Learning

Online Multi-Modal Learning and Adaptive Informative Trajectory Planning for Autonomous Exploration

Akash Anand, Michael Furlong, Robert Fitch, Terry Fong, Salah Sukkarieh and Richard Ebeling

Session-Invariant Semantic Segmentation with a Deep Multimodal Network

Dong Ki Kim, Daniel Maturana, Masashi Ueno and Sebastian Scherer

A Deep Learning Pipeline for High-throughput Measurement of Plant Stalk Count and Stalk Width

Harjatin Bawaji, Tanvir Parhar, Omeed Mirbod and Stephen Nuske

Transfer ETH to Vitnau with Bus departing at 15:00 from ETH Polytechnic  
(Bags can be left in the Bus)

Cog wheel to Rigi Kulm leaving 16:15 in Vitnau, individually get out on the way for hiking

Hike to Rigi / Apero at Event hall starting at 18:00

Art and Robotics

Aparna Rao

Barquet at RIG event hall

Transfer to ETH (expected return 22:15)