WS2 - Robot-based inspection systems and post-processing tools

IEEE ETFA 2020 (Vienna, Austria)

Date: September 8th 2020, 9:00h

- 09:00 09:15 Workshop opening Enrico Carrara and Alberto Ortiz, Workshop organizers
- 09:15 10:15 **SESSION 1:** Robotic technologies for inspection of ships
 - 09:15 Robotics Technology for Inspection of Ships
 Enrico Carrara, Alessandro Grasso (RINA Services S.p.a., Italy)
 - 09:35 Assessment of ship robotic inspections
 Laura Poggi, Cesare Mario Rizzo, Tomaso Gaggero, Marco Gaiotti, Enrico Ravina
 (University of Genova DITEN, Italy)
 - 69:55 Evaluation of a Skill-based Control Architecture for a Visual Inspection-oriented
 Aerial Platform
 Emilio Garcia-Fidalgo, Francisco Bonnin-Pascual, Joan P. Company-Corcoles,
 Alberto Ortiz (University of the Balearic Islands, Spain)
- 10:15 10.30 *Break*
- 10:30 11:30 **SESSION 2:** Solutions for generic and alternative inspection scenarios
 - 10:30 MAV tele-operation constrained on virtual surfaces for inspection of infrastructures
 Florian Dietrich, Julien Marzat, Martial Sanfourche, Sylvain Bertrand, Anthelme Bernard-Brunel, Alexandre Eudes (Onera, France)
 - 10:50 Accurate Identification of 3D Pose through Reprojection onto a Single Image from Mask-RCNN Contour Gabriele Baris, Carlo Alberto Avizzano (Scuola Superiore Sant'Anna, Italy)
 - 11:10 Knowledge-Based Service-Oriented System for the Automated Programming of Robot-Based Inspection Systems
 Alejandro Magaña, Silvia Gebel, Philipp Bauer, Gunther Reinhart (Technical University of Munich, Germany)
 - 11:30 Workshop closing