

2nd Public Technical Workshop – AGENDA

Hosted by The EC Horizon 2020 European Training Network “MOIRA”
(Monitoring of Large Scale Complex Technological Systems)

PUBLIC TECHNICAL WORKSHOP and MOIRA Scientific-Skills training courses	Wednesday 5th	13:45	14:00	Arrival
		14:00	14:30	2nd Public Workshop Welcome & Company presentation IKERLAN S. COOP.
		14:30	15:30	Precision Control in Industrial Mobile Manipulators: Challenges and Solutions Naroa Nuñez (IKERLAN) Model-Based Trajectory planning Implementation and Intelligent Refinement Daniel Bilbao (IKERLAN)
		15:30	16:00	break
		16:00	17:00	Robotics in Autonomous Drone Inspections: A Case Study in Wind Energy Javier Aldazabal (ALERION)
		17:00	18:00	Tour: IKERLAN facilities (DIGILAB)
		18:00		Close
		20:00		Official Dinner at El Portalón (Vitoria-Gasteiz)
		Thursday 6th	8:45	9:00
	9:00		10:30	Scientific Skills Training (S10 - Part 1) Process automation & Monitoring Systems Jacopo Cavalaglio Camargo Molano (Tetra Pak), Marco Cocconcelli (University of Modena and Reggio Emilia)
	10:30		11:00	break
	11:00		12:30	Scientific Skills Training (S10 - Part 2) Process automation & Monitoring Systems Jacopo Cavalaglio Camargo Molano (Tetra Pak), Marco Cocconcelli (University of Modena and Reggio Emilia)
	12:30		13:30	Lunch
	13:30		15:30	Automatic multi-sensor validation methods Lan Jia (SIEMENS Industry Software NV) Onboard aircraft engine monitoring analyzing vibratory and sound signals captured by smartphones / tablets Fadi Karkafi (SAFRAN SA) Heterogeneous data fusion for monitoring of mines using robotic devices Mohammad Siami (AMC VIBRO) Transfer learning for predictive engineering analytics in fleets Deepti Kunte (SIEMENS Industry Software NV)
	15:30		16:00	break
	16:00		18:00	Remaining fatigue-life prediction of heavily loaded uncertain industrial systems Benjamin Tapia (IKERLAN) Enhancing infrastructure monitoring using a FMEA-based systematic and holistic system analysis Atabak Mostafavi (Fraunhofer-Gesellschaft Zur Foerderung Der Angewandten Forschung E.V.) Modelling & analysis of long term heterogeneous historical data of time varying complex systems in presence of impulsive noise for condition monitoring Hamid Shiri (Wroclaw University of Science and Technology) A Hybrid Prognostic Methodology for Aircraft Systems Felix Fu (Cranfield University)
	18:00			Close
	Friday 7th		8:45	9:00
		9:00	10:30	Scientific Skills Training (S9 - Part 1) Industrial applications of condition monitoring and asset management Urko Leturiondo (IKERLAN), Ana Gómez (IKERLAN), Angel Rodríguez (IKERLAN)
		10:30	11:00	break
		11:00	12:30	Scientific Skills Training (S9 - Part 2) Model-based & hybrid condition monitoring of mechatronic systems Konstantinos Gryllias (Katholieke Universiteit Leuven)

	12:30	13:30	Lunch
	13:30	15:00	<p>Human Cognition in Future Maintenance Operations in Autonomous Machines Parul Khanna (Luleå University of Technology)</p> <p>Hybrid techniques for condition monitoring of motion control applications Jabbar Abdul (University of Modena and Reggio Emilia)</p> <p>Probabilistic Learning for Patient Health Monitoring Jenny Yang (University of Oxford)</p>
	15:00	15:30	break
	15:30	17:30	<p>Improving virtual sensing by multi-complexity models Mojtaba Ahani (Institut National des Sciences Appliquées de Lyon)</p> <p>Probabilistic fleet monitoring based on model manifold Achilleas Achilleos (Institut National des Sciences Appliquées de Lyon)</p> <p>Self-learning intelligent monitoring of cyber-physical system fleet Fabrizio De Fabritiis (Katholieke Universiteit Leuven)</p> <p>Wear monitoring of mechatronic systems under variable operating conditions by integration of heterogeneous data Douw Marx (Katholieke Universiteit Leuven)</p>
	17:30	18:00	Closing remarks
	18:00		Close