





The MAIANDROS Fall 2021 Virtual Workshop

on Automated On-Board Condition Monitoring for Railway Vehicles

29 September 2021 @ 11:00 EEST

MAIANDROS web page (in Greek)

Participation is **free of charge** subject to prior registration. Please **register** using the <u>link</u>. Registration is on a first-come first-served basis with deadline on September 27, 2021 @ 15:00 EEST.

Workshop Program

Time	Topic	Presenter(s)
11:00 – 11:10	Welcome and brief overview of the MAIANDROS project	Dr A Deloukas & Dr G Leoutsakos, Athens Metro, Greece Prof JS Sakellariou & Prof SD Fassois, University of Patras, Greece
11:10 – 11:30	The MAIANDROS concept & system: innovation-modules-operation-benefits	Prof SD Fassois, University of Patras, Greece
11:30 – 11:50	Attiko Metro S.A. existing maintenance procedures for core mechanical parts (wheels, suspension, bearings, other)	Dr G Leoutsakos, Athens Metro, Greece Mr C Mamaloukakis, Mr C Sarris, Mrs K Katsiana, STASY, Greece
11:50 - 12:10	Trains Health Monitoring	Mr J Protche, ALSTOM, France
12:10 – 12:30	Hitachi Digital Asset Management Solutions for Railways	Mr J Southcombe, HITACHI Perpetuum Solution, UK
12:30 – 12:50	Vibration based fault detection in rotating equipment and technical solutions for predictive maintenance adapted to railway vehicles	Dr K Rodopoulos, SKF, Greece
12:50 - 13:10	Case studies on train applications with High Definition technologies	Mr S Furness, SPM, Sweden
13:10 – 13:30	Issues on railway track monitoring	Prof L Garibaldi & Dr A Daga, Politecnico di Torino, Italy
13:30 – 13:50	Basic principles of the MAIANDROS system	Prof JS Sakellariou, University of Patras, Greece
	40-minutes-break	
14:30 – 14:50	Novel methods for identifying the dynamics of moving vehicles	Mr I Iliopoulos, University of Patras, Greece
14:50 – 15:10	The MAIANDROS System: Condition Monitoring Modules	Mr G Vlachospyros, University of Patras, Greece
15:10 – 15:30	The MAIANDROS System: Lateral Stability Monitoring	Mr K Kritikakos, University of Patras, Greece
15:30 – 15:50	The MAIANDROS System: Remaining Useful Life Estimation (RULE)	Mr I Iliopoulos, University of Patras, Greece
15:50 – 16:10	The MAIANDROS system prototype	Mr K Kritikakos & Mr G Vlachospyros, University of Patras, Greece
16:10 – 16:30	Business Case - Preventive vs Predictive Maintenance	Dr A Deloukas, Dr G Leoutsakos
16:30 – 16:50	Concluding remarks – outlook – discussion	Dr A Deloukas & Dr G Leoutsakos, Athens Metro, Greece Prof JS Sakellariou & Prof SD Fassois, University of Patras, Greece

Notes: 1) All times are EEST (Eastern European Summer Time). 2) Each presentation includes 5 min discussion. 3) The Workshop language is English.

SMSA Lab – Univ. of Patras <u>www.smsa.upatras.gr</u>

Athens Metro https://www.ametro.gr/?lang=en