

14th ESA Workshop on Avionics, Data, Control and Software Systems ~ ADCSS2020

Thursday, 22 October 2020

The implementation of AI application on spacecraft On-Board Computers and Data Handling Systems (16:10 - 18:30)

-Conveners: Ali Zadeh; Olivier Mourra

time	[id] title	presenter
16:10	[7] Introduction	MOURRA, Olivier
16:20	[8] PhiSat-1 successfully applies AI to process Earth Observation imagery in-flight in historic first for Space	FURANO, Gianluca
16:45	[9] SEE detection (HCE) with Machine Learning algorithm on Atmel SAM3X microcontroller	Mr DORISE, Adrien
17:05	[10] On-Board Satellite Telemetry Forecasting with RNN on RISC-V Based Multicore Processor	Prof. OTTAVI, Marco
17:25	[11] On-board real-time Machine learning-based cloud detection for the CHIME mission	Mr LEBEDEFF, Dimitri Mr RODRIGUEZ, Pedro
17:45	[12] UB100: Enabling accelerated AI inference on CubeSats	Dr DUNNE, Aubrey
18:05	[13] High Performance Compute Board based on KCU060 and AI accelerator chips	Mr HABINC, Sandi
18:25	[14] Session Wrap-up	MOURRA, Olivier