Open Source CubeSat Workshop 2021

Thursday 09 December 2021

Talks: Session 1 (11:20-12:40)

-Conveners: Artur Scholz; Eleftherios Kosmas

time	[id] title	presenter
11:20	[6] sdr-server - improving hardware utilization for passive spectrum monitoring	
11:40	[31] OpenSATCOM update and initial results	
12:00	[7] Satellite Event Detection	
12:20	[10] DOCKS – An open-source software suite for space mission profiles	

Talks: Session 2 (13:00-14:20)

-Conveners: Red Boumghar; Manthos Papamatthaiou

time	[id] title	presenter
13:00	[21] Astrometry on board OPS-SAT1?	
13:20	[9] IPFS-tiny in orbit -- Enabling new concepts	
13:40	[33] SatNOGS - State of the Union	
14:00	[5] LibreCube - Overview of Activities	

Talks: Session 3 (14:40-16:00)

-Conveners: Pierros Papadeas; Artur Scholz

time	[id] title	presenter
14:40	[13] OreSat CubeSat System Overview	
15:00	[18] OreSat Mechanical Architecture	
15:20	[14] OreSat Electrical Power System	
15:40	[15] OreSat Firmware and Software Architecture	

Friday 10 December 2021

Talks: Session 4 (11:20-13:10)

   -Conveners: Artur Scholz; Manthos Papamatthaiou

time	[id] title	presenter
11:20	[32] State of Polaris, more visualization in using ML for space operations	
11:40	[8] Open Space Data Link Protocol – An open-source implementation of the CCSDS TM/TC Directives	
12:00	[22] The open-source approach to on-board data processing. A view from the perspective of OHB-Hellas	
12:20	[12] Luplink, an Open Source Web Application for an Ergonomic Link Budget Analysis	
12:40	[34] QUBIK Mission	

Talks: Session 5 (15:00-16:20)

   -Conveners: Pierros Papadeas; Eleftherios Kosmas

time	[id] title	presenter
15:00	[19] Progress and Developments in Open Source Electric Propulsion for Nanosats and Picosats at AIS	
15:20	[24] Passive Satellite RF Tracking using the SatNOGS Network	
15:40	[30] Cronos Sounding Rocket	
16:00	[1] An Intuitive Tool to Design Relative Orbits for Formation Flying	

Talks: Session 6 (16:40-18:00)

   -Conveners: Artur Scholz; Red Boumghar

time	[id] title	presenter
16:40	[3] Progress Report from Open Research Institute, Inc.	
17:00	[16] OreSat Communication Protocols and and Ground Stations	
17:20	[17] OreSat Mission Planning with Eclipse Papyrus SysML	
17:40	[11] MetaSat: Open Metadata for Small Satellite Missions	