



The **ReDSHIFT** Final Conference:

an holistic approach to space debris mitigation

13-14 March 2019
Auditorium di Santa Apollonia
Firenze, Via S. Gallo 25/a

March 13, 2019		
09:00-09:30	Registration and welcome coffee	
09:30-10:30	Opening and welcome	Roberto Pini, IFAC-CNR Director
	Welcome addresses	Regione Toscana
		Consiglio Nazionale delle Ricerche
		Cluster Nazionale Aerospazio
	Rete Nereus	
10:30-11:30	The H2020 ReDSHIFT Project	A.Rossi, IFAC-CNR, Italy
11:30-12:15	The ASI Space Debris and NEAs activities	E. Perozzi, ASI, Italy
12:15-13:00	The NASA Space debris activities	J.C. Liou, NASA-JSC Space Debris Program Office, USA
13:00-14:30	LUNCH BREAK	
14:30-15:30	The ReDSHIFT simulation and legal results:	V. Schaus, Technical University of Braunschweig, Germany
	<ul style="list-style-type: none"> • Analysis • Simulations • Legal framework of space debris 	R. Popova, Y. Kim, University of Cologne, Germany
15:30-16:30	The ReDSHIFT Dynamics results:	K. Tsiganis, University of Thessaloniki, Greece
	<ul style="list-style-type: none"> • Mapping of the Earth orbit • Dynamic disposal at end-of-life • Sails dynamics 	C. Colombo, Politecnico di Milano, Italy
16:30-17:00	COFFEE BREAK	



17:00-18:00	The ReDSHIFT Design activities: <ul style="list-style-type: none"> • Preliminary design of a 3D printed spacecraft • Solar and drag sail design • Design refinement • Final design 	J. Becedas Rodriguez, DEIMOS Satellite Systems, Spain F. Dalla Vedova, Lux Space, Luxemburg
CONFERENCE DINNER		
March 14, 2019		
09:30-10:15	The ESA Space Debris Activities	S. Lemmens, ESOC, Germany
10:15-11:00	Space Traffic Management	C. Bonnal, CNES-Paris, France
11:00-11:30	COFFEE BREAK	
11:30-12:30	The ReDSHIFT 3D printing activities: <ul style="list-style-type: none"> • 3D Printing strategies • Shields and parts • 3D printing of spacecraft 	S. Walker, University of Southampton, UK
12:30-13:00	The ReDSHIFT testing activities: <ul style="list-style-type: none"> • Structural & vibration tests of the 3D printed spacecraft 	J. Becedas Rodriguez, DEIMOS Satellites Systems, Spain
13:00-14:30	LUNCH BREAK	
14:30-15:30	<ul style="list-style-type: none"> • D4D tests • Impact & radiation tests 	J. Beck, Belstead Research Ltd., UK A. Francesconi, University of Padova, Italy
15:30-16:00	Legal implications of the ReDSHIFT results	R. Popova, Y. Kim, University of Cologne, Germany
16:00-17:00	The ReDSHIFT Software suite	F. Letterio, DEIMOS, Spain E.M. Alessi, IFAC-CNR, Italy
17:00-17:30	Conclusions and way forward	A. Rossi, IFAC-CNR, Italy