Outstanding Paper Award for Young Scientists 2018

42nd COSPAR Scientific Assembly
Pasadena, CA, USA, 14 - 22 July 2018

COSPAR Scientific Commission A	**Yan Jia (Italy)** *Sensing soil moisture and vegetation using GNSS-R polarimetric measurement* ASR 59/3
	Durgesh Nandan Piyush (India) *Retrieval of cloud ice water path using SAPHIR on board Megha-Tropiques over the tropical ocean* ASR 59/7
	Rachel L. Tilling (UK) *Estimating Arctic sea ice thickness and volume using CryoSat-2 radar altimeter data* In press
COSPAR Scientific Commission B	**Laura Kulowski (USA)** *The seasonal and spatial distribution of textured dust storms observed by Mars Global Surveyor Mars Orbiter Camera* ASR 59/2
	Yutian Song (China) *Effects of solar radiation, terrestrial radiation and lunar interior heat flow on surface temperature at the nearside of the Moon: Based on numerical calculation and data analysis* ASR 60/5
	Wenlin Tang (China) *Chang'e 3 lunar mission and upper limit on stochastic background of gravitational wave around the 0.01 Hz band* ASR 60/6
COSPAR Scientific Commission C	**Tsige Yared Atilaw (South Africa)** *Azimuth-dependent elevation threshold (ADET) masks to reduce multipath errors in ionospheric studies using GNSS* ASR 59/11
	Sneha A. Gokani (India) *Rare observation of daytime whistlers at very low latitude (L = 1.08)* ASR 61/7
	Wang Li (China) *Statistical seismo-ionospheric pre-cursors of M7.0+ earthquakes in Circum-Pacific seismic belt by GPS TEC measurements* ASR 61/5

	Teresa Mendaza (Sweden) *Interplanetary Coronal Mass Ejection effects on thermospheric density as inferred from International Space Station orbital data* ASR 60/10
	Yuanming Shu (China) *Error analysis of high-rate GNSS precise point positioning for seismic wave measurement* ASR 59/11
	Tobias G.W. Verhulst (Belgium) *High-resolution ionospheric observations and modeling over Belgium during the solar eclipse of 20 March 2015 including first results of ionospheric tilt and plasma drift measurements* ASR 57/11
	H.Y. Xie (China) *Case study of simultaneous observations of sporadic sodium layer, E-region field-aligned irregularities and sporadic E layer at low latitude of China* ASR 59/6
	Dunyong Zheng (China) *Variable pixel size ionospheric tomography* ASR 59/12
COSPAR Scientific Commission D	**Xuanye Ma (China)** *Interaction between reconnection and Kelvin–Helmholtz at the high-latitude magnetopause* ASR 58/2
COSPAR Scientific Commission E	**Vera G. Sinitsyna (Russia)** *Shell-type supernova remnants as sources of cosmic rays* In press
	Junyue Tang (China) *Investigating the soil removal characteristics of flexible tube coring method for lunar exploration* ASR 61/3
COSPAR Scientific Commission F	**Elena A. Radugina (Russia)** *Exposure to microgravity for 30 days onboard Bion M1 caused muscle atrophy and impaired regeneration in murine femoral Quadriceps* LSSR 16
	Claire Ward (USA) and Trisha A. Rettig (USA) *Effects of spaceflight on the immunoglobulin repertoire of unimmunized C57BL/6 mice* LSSR 16

Technical Panel on Satellite Dynamics (PSD)	**Akram Adnane (Algeria)** *Real-Time Sensor Fault Detection and Isolation for LEO Satellite Attitude Estimation through Magnetometer Data* ASR 61/4
	Elisa Benedetti (Italy) *On the feasibility to integrate low-cost MEMS accelerometers and GNSS receivers* ASR 59/11
	Jia Cai (China) *An efficient circle detector not relying on edge detection* ASR 57/11
	Jiachao Chang (China) *The Research on System Error of Inter-Satellite-Link (ISL) Measurements for Autonomous Navigation of Beidou System* ASR 60/1
	Ennio Condoleo (Italy) *Constant orbit elements under the third body effect* ASR 59/5
	Diogene Alessandro Dei Tos (Italy) *Trajectory Refinement of Three-Body Orbits in the Real Solar System Model* ASR 59/8
	Lamberto Dell'Elce (Italy) *Numerical Investigation of the Dynamical Environment of 65803 Didymos* ASR 59/5
	Junjie Kang (China/Canada) *Fractional order sliding mode control for tethered satellite deployment with disturbances* ASR 59/1
	Beate Klinger (Austria) *The role of accelerometer data calibration within GRACE gravity field recovery: Results from ITSG-Grace2016* ASR 58/9
	Peng Li (Canada) *State Dependent Model Predictive Control for Orbital Rendezvous Using Pulse-Width Pulse-Frequency Modulated Thrusters* ASR 58/1
	Sreeja Nag (USA) *Scheduling algorithms for rapid imaging using agile Cubesat constellations* ASR 61/3

	Junyang Pan (China) *Time Synchronization of New-Generation BDS Satellites using Inter-Satellite Link Measure ments* ASR 61/1
	Jean-Noël Pittet (Switzerland) *Spin motion determination of the Envisat satellite through laser ranging measurements from a single pass measured by a single station* ASR 61/4
	Min Wang (China) *Performance Analysis of BDS/GPS Precise Point Positioning with Undifferenced Ambiguity Resolution* ASR 60/12
Panel on Potentially Environmentally Detrimental Activities in Space (PEDAS)	**Jacco Geul (The Netherlands)** *TLE uncertainty estimation using robust weighted differencing* ASR 59/10
	Luc Sagnières (Canada) *Stochastic modeling of hypervelocity impacts in attitude propagation of space debris* ASR 59/4
	Chenglin Wang (China) *Impulse calculation and characteristic analysis of space debris by pulsed laser ablation* ASR 58/9