Outstanding Paper Award for Young Scientists 2020

43rd COSPAR Scientific Assembly Sydney, Australia, 28 January – 4 February 2021

COSPAR Scientific Commission A	Wenyan Ge (China)
	Lithological discrimination using ASTER and Sentinel- 2A in the Shibanjing ophiolite complex of Beishan orogenic in Inner Mongolia, China ASR 62/7
	Pawel Hordyniec (Poland)
	Simulation of liquid water and ice contributions to bending angle profiles in the radio occultation technique ASR 62/5
	Merlin Christopher Köhnke (Germany)
	<i>Observation of a 27-day solar signature in noctilucent cloud altitude ASR</i> 61/10
	Günther March (The Netherlands)
	High-fidelity geometry models for improving the consistency of CHAMP, GRACE, GOCE and Swarm thermospheric density data sets ASR 63/1
	Matthias Raynal (France)
	From conventional to Delay Doppler altimetry: A demonstration of continuity and improvements with the Cryosat-2 mission ASR 62/6
	Xiaolei Wang (China)
	Azimuth selection for sea level measurements using geodetic GPS receivers ASR 61/6
COSPAR Scientific Commission B	Danielle M. DeLatte (USA)
	Automated crater detection algorithms from a machine learning perspective in the convolutional neural network era ASR 64/8
	Yongchao Zhu (China)
	Analysis of the brightness temperature features of the lunar surface using 37 GHz channel data from the Chang'E-2 microwave radiometer ASR 63/1

COSPAR Scientific Commission C	Ronny Badeke (Germany)
	<i>Empirical forecast of quiet time ionospheric Total Electron Content maps over Europe ASR</i> 61/12
	Stefan Gohl (Czech Republic)
	Study of the radiation fields in LEO with the Space Application of Timepix Radiation Monitor (SATRAM) ASR 63/5
	Günther March (The Netherlands)
	CHAMP and GOCE thermospheric wind character- ization with improved gas-surface interactions modelling ASR 64/6
	Tim Visser (The Netherlands)
	Horizontal and vertical thermospheric cross-wind from GOCE linear and angular accelerations ASR 63/10
	Ningbo Wang (China)
	Refinement of global ionospheric coefficients for GNSS applications: Methodology and results ASR 63/1
COSPAR Scientific Commission D	Jordan Lasuik (Canada)
	The influence of non-Gaussian distribution functions on the time-dependent perpendicular transport of energetic particles ASR 61/11
	Katlego Daniel Moloto (South Africa)
	Numerical integration of stochastic differential equations: A parallel cosmic ray modulation imple- mentation on Africa's fastest computer ASR 63/1
COSPAR Scientific Commission E	Weiwei Xu (China)
	Distinctive properties of cosmic-ray positron and electron fluxes measured by AMS on ISS ASR 64/12
COSPAR Scientific Commission F	Frederico Kiffer (USA)
	Late effects of ¹ H irradiation on hippocampal physiology LSSR 17
	Krishna Luitel (USA)
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COSPAR Scientific Commission G	Giuseppe Prete (Italy)
	Influence of the transport regime on the energetic particle density profiles upstream and downstream of interplanetary shocks ASR 63/8
Panel on Potentially Environmentally Detrimental Activities in Space (PEDAS)	Aleix Pinardell (The Netherlands)
	Ariane 5 GTO debris mitigation using natural perturbations ASR 63/7
	François Sanson (The Netherlands)
	Noise estimation and probability of detection in non- resolved images: Application to space object observation ASR 64/7
Panel on Technical Problems Related to Scientific Ballooning (PSB)	Kanika Garg (Sweden)
	Balloon ascent prediction: Comparative study of analytical, fuzzy and regression models ASR 64/1
Technical Panel on Satellite Dynamics (PSD)	Hongru Chen (France)
	Lunar far side positioning enabled by a CubeSat system deployed in an Earth-Moon halo orbit ASR 64/1
	Liang Fan (China)
	Dynamic modeling and modal parameters identi- fication of satellite with large-scale membrane antenna ASR 63/12
	Eva Jalabert (France)
	Analysis of South Atlantic Anomaly perturbations on Sentinel-3A Ultra Stable Oscillator. Impact on DORIS phase measurement and DORIS station positioning ASR 62/1
	Chuang Liu (China)
	Robust fault tolerant nonfragile H∞ attitude control for spacecraft via stochastically intermediate observer ASR 62/9
	Liu Xin (China)
	A fast satellite selection algorithm with floating high cut-off elevation angle based on ADOP for instant- aneous multi-GNSS single-frequency relative positioning ASR 63/3
	Tommaso Pino (Italy)
	Wrinkling analysis for small solar-photon sails: An experimental and analytic approach for trajectory design ASR 63/11

Aaron Jay Rosengren (USA)
<i>Dynamical cartography of Earth satellite orbits</i> ASR 63/1
Crislaine Menezes da Silva (Brazil)
Ionospheric scintillation impact on ambiguity resolution using ADOP in closed form ASR 64/4
Kui Zeng (China)
Two-phase shaping approach to low-thrust trajectories design between coplanar orbits ASR 62/3
Rui Zhang (China)
Impact of BDS-3 experimental satellites to BDS-2: Service area, precise products, precise positioning ASR 62/4