

Outstanding Paper Award for Young Scientists 2018

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

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| COSPAR Scientific Commission A | <p>Yan Jia (Italy)</p> <p><i>Sensing soil moisture and vegetation using GNSS-R polarimetric measurement</i> ASR 59/3</p> |
| | <p>Durgesh Nandan Piyush (India)</p> <p><i>Retrieval of cloud ice water path using SAPHIR on board Megha-Tropiques over the tropical ocean</i> ASR 59/7</p> |
| | <p>Rachel L. Tilling (UK)</p> <p><i>Estimating Arctic sea ice thickness and volume using CryoSat-2 radar altimeter data</i> ASR 62/6</p> |
| COSPAR Scientific Commission B | <p>Laura Kulowski (USA)</p> <p><i>The seasonal and spatial distribution of textured dust storms observed by Mars Global Surveyor Mars Orbiter Camera</i> ASR 59/2</p> |
| | <p>Yutian Song (China)</p> <p><i>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</i> ASR 60/5</p> |
| | <p>Wenlin Tang (China)</p> <p><i>Chang'e 3 lunar mission and upper limit on stochastic background of gravitational wave around the 0.01 Hz band</i> ASR 60/6</p> |
| COSPAR Scientific Commission C | <p>Tsige Yared Atilaw (South Africa)</p> <p><i>Azimuth-dependent elevation threshold (ADET) masks to reduce multipath errors in ionospheric studies using GNSS</i> ASR 59/11</p> |
| | <p>Sneha A. Gokani (India)</p> <p><i>Rare observation of daytime whistlers at very low latitude ($L = 1.08$)</i> ASR 61/7</p> |
| | <p>Wang Li (China)</p> <p><i>Statistical seismo-ionospheric pre-cursors of M7.0+ earthquakes in Circum-Pacific seismic belt by GPS TEC measurements</i> ASR 61/5</p> |

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| | <p>Teresa Mendaza (Sweden)</p> <p><i>Interplanetary Coronal Mass Ejection effects on thermospheric density as inferred from International Space Station orbital data</i> ASR 60/10</p> |
| | <p>Yuanming Shu (China)</p> <p><i>Error analysis of high-rate GNSS precise point positioning for seismic wave measurement</i> ASR 59/11</p> |
| | <p>Tobias G.W. Verhulst (Belgium)</p> <p><i>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</i> ASR 57/11</p> |
| | <p>H.Y. Xie (China)</p> <p><i>Case study of simultaneous observations of sporadic sodium layer, E-region field-aligned irregularities and sporadic E layer at low latitude of China</i> ASR 59/6</p> |
| | <p>Dunyong Zheng (China)</p> <p><i>Variable pixel size ionospheric tomography</i> ASR 59/12</p> |
| COSPAR Scientific Commission D | <p>Xuanye Ma (China)</p> <p><i>Interaction between reconnection and Kelvin–Helmholtz at the high-latitude magnetopause</i> ASR 58/2</p> |
| COSPAR Scientific Commission E | <p>Vera G. Sinitsyna (Russia)</p> <p><i>Shell-type supernova remnants as sources of cosmic rays</i> ASR 62/10</p> |
| | <p>Junyue Tang (China)</p> <p><i>Investigating the soil removal characteristics of flexible tube coring method for lunar exploration</i> ASR 61/3</p> |
| COSPAR Scientific Commission F | <p>Elena A. Radugina (Russia)</p> <p><i>Exposure to microgravity for 30 days onboard Bion M1 caused muscle atrophy and impaired regeneration in murine femoral Quadriceps</i> LSSR 16</p> |
| | <p>Claire Ward (USA) and Trisha A. Rettig (USA)</p> <p><i>Effects of spaceflight on the immunoglobulin repertoire of unimmunized C57BL/6 mice</i> LSSR 16</p> |
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| Technical Panel on Satellite Dynamics (PSD) | <p>Akram Adnane (Algeria)</p> <p><i>Real-Time Sensor Fault Detection and Isolation for LEO Satellite Attitude Estimation through Magnetometer Data</i> ASR 61/4</p> |
| | <p>Elisa Benedetti (Italy)</p> <p><i>On the feasibility to integrate low-cost MEMS accelerometers and GNSS receivers</i> ASR 59/11</p> |
| | <p>Jia Cai (China)</p> <p><i>An efficient circle detector not relying on edge detection</i> ASR 57/11</p> |
| | <p>Jiachao Chang (China)</p> <p><i>The Research on System Error of Inter-Satellite-Link (ISL) Measurements for Autonomous Navigation of Beidou System</i> ASR 60/1</p> |
| | <p>Ennio Condoleo (Italy)</p> <p><i>Constant orbit elements under the third body effect</i> ASR 59/5</p> |
| | <p>Diogene Alessandro Dei Tos (Italy)</p> <p><i>Trajectory Refinement of Three-Body Orbits in the Real Solar System Model</i> ASR 59/8</p> |
| | <p>Lamberto Dell'Elce (Italy)</p> <p><i>Numerical Investigation of the Dynamical Environment of 65803 Didymos</i> ASR 59/5</p> |
| | <p>Junjie Kang (China/Canada)</p> <p><i>Fractional order sliding mode control for tethered satellite deployment with disturbances</i> ASR 59/1</p> |
| | <p>Beate Klinger (Austria)</p> <p><i>The role of accelerometer data calibration within GRACE gravity field recovery: Results from ITSG-Grace2016</i> ASR 58/9</p> |
| | <p>Peng Li (Canada)</p> <p><i>State Dependent Model Predictive Control for Orbital Rendezvous Using Pulse-Width Pulse-Frequency Modulated Thrusters</i> ASR 58/1</p> |
| <p>Sreeja Nag (USA)</p> <p><i>Scheduling algorithms for rapid imaging using agile Cubesat constellations</i> ASR 61/3</p> | |

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