Advances in Space Research: Top Reviewers of 2021

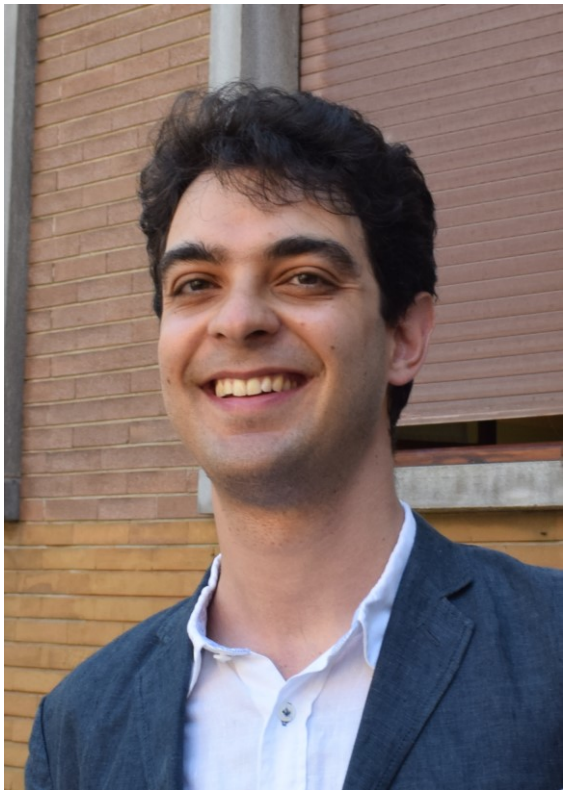
Advances in Space Research (*ASR*), as with any established scientific journal, insists on a rigorous peer-review process to maintain the integrity and quality of its published papers. An essential part of this process is the reviewer, spending his or her valuable time using unique expertise to evaluate the scientific quality of a manuscript and help the Editor make a fair and timely decision.

To further highlight the vital importance of reviewers to the quality *ASR* publications, the Editors have selected their 10 top reviewers for the year 2021, taking into account criteria such as the number and the quality of the referee reports performed during this year. By publishing the names and short biographies of these selected reviewers in this issue of *Space Research Today*, we would like to acknowledge their valuable efforts. As an additional token of appreciation, these reviewers were offered an Amazon voucher by Elsevier. Their names will also be acknowledged on the journal homepage of ASR (https://www.journals.elsevier.com/advances-in-space-research/reviewers/thank-you-reviewers-aisr).

We also feel deeply obliged to all *ASR* reviewers who have contributed this past year who are not mentioned here, and we sincerely thank all of them for bringing the journal up to its current scientific standard.

Pascal Willis, *ASR* Editor-in-Chief
Lianne van der Zant, *ASR* Publisher (Elsevier)

Fabio Ferrari



Fabio Ferrari is a Senior Research Associate at the Physics Institute of the University of Bern. After a PhD in Aerospace Engineering at Politecnico di Milano in 2017, he was a Postdoctoral Research Fellow (2018-2019) and Visiting Postdoc (2019-2021) at NASA Jet Propulsion Laboratory. He spent visiting periods at Observatoire de la Côte d'Azur and Politecnico di Milano. He was the recipient of a Marie-Skłodowska-Curie Individual Fellowship (2018) and a SNSF Ambizione Fellowship (2021) for the study of the dynamics, formation and evolution of rubble-pile asteroids. His research interests are in the field of asteroid dynamics and planetary science. Dr. Ferrari has been involved in the definition of several asteroid mission concepts and is currently in the Investigation Teams of NASA's Double Asteroid Redirection Test (DART) and ESA's Hera missions to binary asteroid Didymos.

Wang Gao

Dr. Wang Gao is now a Lecturer in School of Instrument Science and Engineering, at Southeast University. He received his B.Sc. degree in 2013 from Southeast University, and received his Ph.D. degree from Southeast University in 2018 from Southeast University, with a thesis on "Study on the Key Technologies of Fast Precise Positioning Based on the Fusion of Multi-System and Multi-Frequency GNSS". He once worked as a visiting scholar at Nottingham Geospatial Institute (NGI) in the University of Nottingham, from 2016-2017. His main research interests now are advanced GNSS and geodetic data processing; GNSS Network RTK, PPP and PPP-RTK methods; integrated navigation method in GNSS denied areas; multi-sensor fusion navigation and parameter estimation and so on.

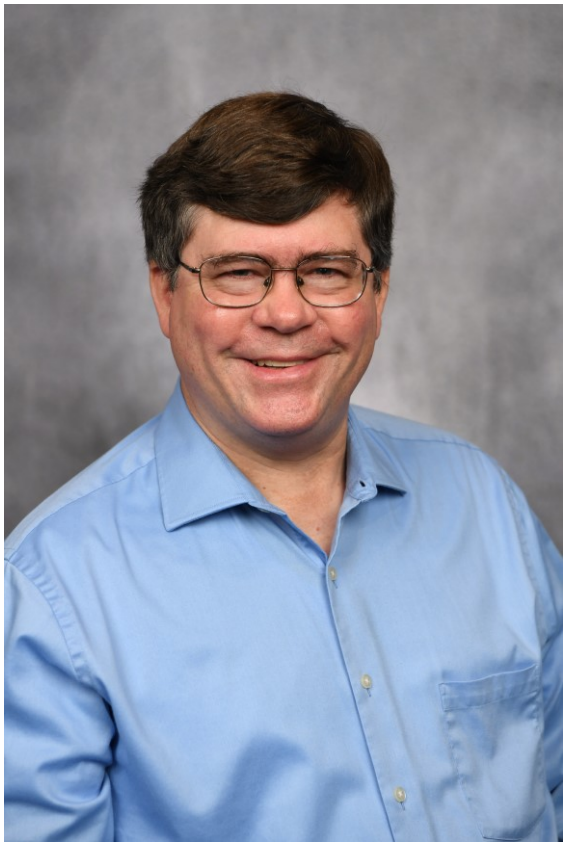
Maorong Ge

Prof. Dr.-Ing Maorong Ge received his B.S. degree from Tongji University, China, and his M.S. and Ph.D. degrees in geodesy from Wuhan University, China. He is now a senior scientist at the German Research Center for Geosciences (GFZ) and professor of real-time positioning and multi-sensor navigation at the Technical University of Berlin. He is leading the Real-time GNSS group and the IGS Real-time Analysis Center at the GFZ. His research interests are GNSS precise positioning algorithms and software development

Pavel Inchin

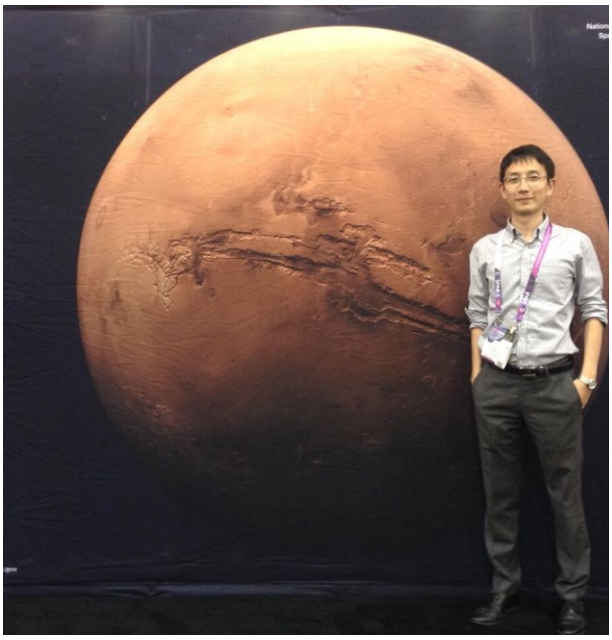
Dr. Pavel Inchin is a Research Associate at the Embry-Riddle Aeronautical University, Florida, USA. His main interest lies in the observations and numerical modeling of infrasonic and gravity wave propagation in the atmosphere and ionosphere that are generated by man-made and natural hazards, such as earthquakes, tsunamis and explosions. He aims to improve the understanding of the extent to which the observables of these waves can be used to infer the characteristics of their sources.

Mark Looper



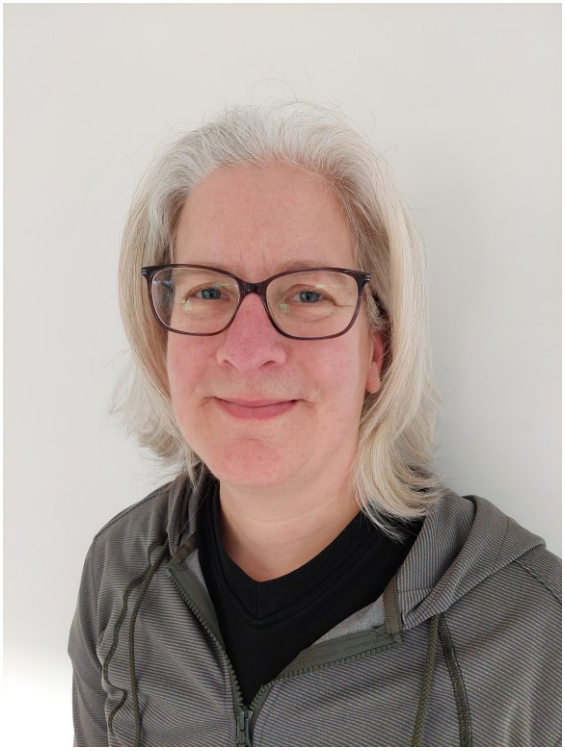
Mark D. Looper is a Research Scientist at The Aerospace Corporation in El Segundo, California. He studies energetic-particle radiation and its interactions with matter, with applications from design of radiation shielding to the calibration of space radiation sensors. He received his PhD in Physics from the California Institute of Technology in 1993, studying the radiation belts of Neptune with Voyager 2 CRS data under the supervision of Prof. E. C. Stone. Since then he has contributed to the design and/or calibration of sensors aboard spacecraft including Galileo (HIC), SAMPEX (PET, HILT), the Lunar Reconnaissance Orbiter (CRaTER), and the Van Allen Probes (MagEIS, RPS), as well as numerous dosimetry payloads. His studies with these sensors have encompassed geomagnetically trapped radiation, solar energetic particles, cosmic rays, and lunar and atmospheric “albedo” secondary particles. He has been the author or co-author of over 80 refereed publications.

Xinyuan Mao



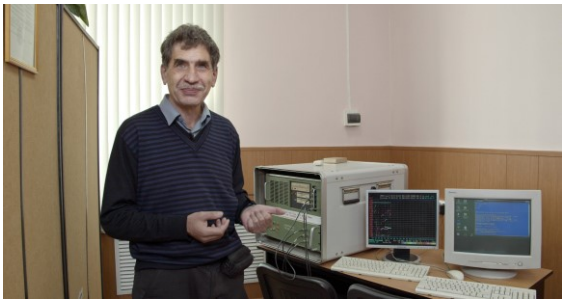
Xinyuan Mao is a postdoc researcher at the Astronomical Institute, University of Bern (AIUB), Switzerland. He finished the PhD phase at Delft University of Technology after a devoted training in absolute and relative Precise Orbit Determination (POD) for low Earth orbit satellite constellations. His research experience aligns with the operations of a few European Space Agency's missions such as GOCE, Swarm and Sentinel-1/2/3, and other international missions such as CHAMP, GRACE and GRACE-FO. Most of the work are done using the official, or in-house-developed, GHOST (DLR/TUD) and Bernese GNSS software (AIUB). He is now in close collaboration with EUMETSAT to outreach the knowledge of POD to the Metop-A/B/C, Sentinel-6A and commercial cubic satellites, and exploring the potential scientific applications of orbit solutions.

Heike Peter



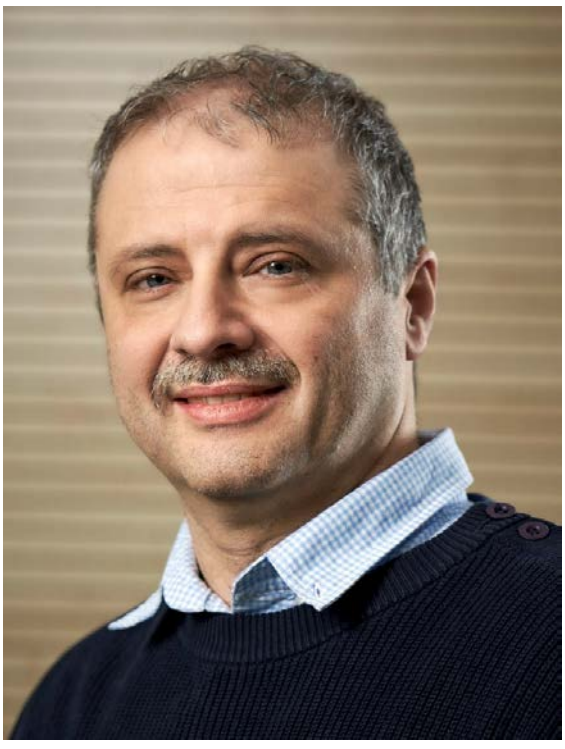
Heike Peter is senior consultant at PosiTim UG in Germany. She received her Ph.D. in satellite geodesy from the Astronomical Institute of the University of Bern (AIUB) in Switzerland in 2003. Her main research interests are the precise orbit modelling of Low Earth Orbiting Satellites (e.g., CHAMP, GOCE, Swarm, Sentinel) using the three space observation techniques GNSS, DORIS and SLR and GNSS data processing in general. Since 2014 she is working for PosiTim and she is member of the Copernicus POD Service, a European consortium responsible for delivering orbital and auxiliary data products of the Copernicus Sentinel satellites to corresponding user communities. She is associate member of several international organisations such as International GNSS Service (IGS), International Laser Ranging Service (ILRS), International DORIS Service (IDS), and International Association of Geodesy (IAG). Since 2012 she is involved in activities of the COSPAR Panel on Satellite Dynamics (PSD).

Konstantin G. Ratovsky



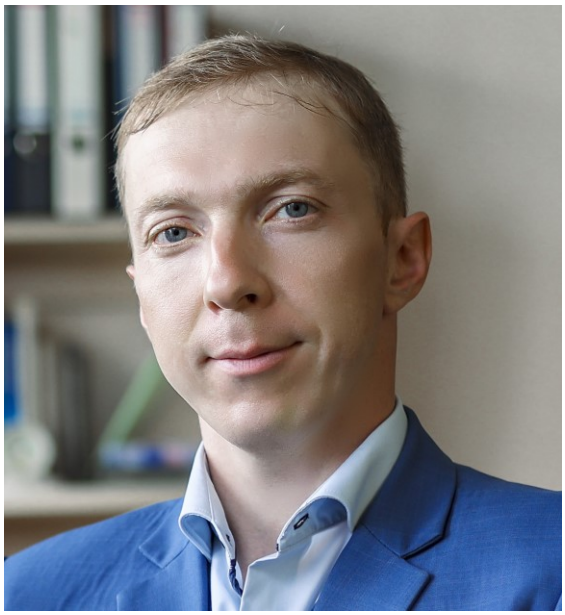
Konstantin G. Ratovsky received his Ph.D. degree in radio physics from Institute of Solar-Terrestrial Physics of Siberian Branch of Russian Academy of Sciences (ISTP SB RAS) in 1999. He works at the ISTP SB RAS as a head of laboratory. His scientific interests include ionosonde and incoherent scatter radar and data analysis, local empirical models of the ionosphere, ionospheric effects of geomagnetic storms and stratospheric warming event, and studies of travelling ionospheric disturbances. Dr. Ratovsky is a member of the Working Group on the International Reference Ionosphere (IRI).

Ilya G. Usoskin



Ilya G. Usoskin is a professor of the University of Oulu (Finland) and head of the Oulu cosmic-ray station, vice-president of IAU (2021–2024). After graduation from the Leningrad Polytechnics (USSR) in 1988, he worked at A.F. Ioffe Physical-Technical Institute (St. Petersburg, Russia) where received his PhD (Cand. Sci) in Astrophysics in 1995, then at INFN Milano (Italy) and since 2000 at the University of Oulu. His research interests cover a broad area encompassing solar and heliospheric physics, cosmic rays and solar-terrestrial relations. I. Usoskin is a founder of the fastly developing research discipline of Space Climate and has several awards including Knight's cross of the Order of Lion of Finland, Julis Bartels medal of EGU, ISEE science award.

Yury Yasyukevich



Yury V. Yasyukevich received his Ph.D. degree in radio physics from Institute of Solar-Terrestrial Physics of Siberian Branch of Russian Academy of Sciences (ISTP SB RAS) in 2009. He works at the ISTP SB RAS as a leading researcher and at Irkutsk state university as an associate professor. His scientific interests include GNSS-ionosphere, space weather impact on GNSS, absolute total electron content. He is a PI of SIMuRG project (http://simurg.space). Dr. Yasyukevich received several awards from the Russian

Academy of Sciences and the Government. He serves as a Guest Editor of GPS solutions.