

4<sup>th</sup> International Conference and Exhibition on

# Satellite & Space Missions

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### All in motion: Satellite geodesy its past and future

The era of satellite geodesy began with the reception of the signal from the Russian satellite Sputnik on the earth's surface on October 4, 1957. That was the first satellite ever in space. On July 21, 1969, the American astronaut Armstrong became the first human to walk on the Moon. Between these two important events lies a time difference of only about 10 years. Today, there are so many satellites in space that pose a serious threat even to the world. This presentation focuses on the accuracy of navigation and positioning obtained using different satellite constellations and asks if we need so many satellites in space for our everyday personal and professional use or is this a fierce competition between the so-called great powers?

### Recent Publications

1. Altiner Y and Perl J (2018) Geospatial reference of GNSS measurements: the contribution of the BKG to the realization in 2016. *Journal of Geodesy, Geoinformation and Land Management*. 143:114-120.
2. Altiner Y (2013) *Analytical Surface Deformation Theory: For Detection of the Earth's Crust Movements*. Springer. Doi: 10.1007/978-3-662-03935-9.
3. Altiner Y et al. (2013) A geodetic study of the 23 October 2011 Van, Turkey earthquake. *Tectonophysics*. 588:118-134.
4. Altiner Y et al. (2006) Present-day tectonics in and around the Adria plate inferred from GPS measurements. *Geological Society of America*. 409(409):43-55.
5. Ayhan M E (2002) Interseismic strain accumulation in the Marmara sea region. *Bulletin of the Seismological Society of America*. 92(1):216-229.

### Biography

Yüksel Altiner has earned his Bachelor of Science Degree from the Yıldız Technical University, Istanbul, Turkey and Master and Doctoral Degrees from the University of Bonn, Germany. In 1997, he was named a University Docent in Geodesy by the Turkish Interuniversity Committee. He developed an analytical surface deformation theory, which was published in a book in 1999 and later translated from English into Chinese. Since 1989, he has worked in the Geodesy Division of the Federal Agency for Cartography and Geodesy in Frankfurt am Main, Germany. From 1980 to 1988 he had an occupation as a Freelance Journalist at the German Parliament (Deutscher Bundestag) in Bonn. He is mainly interested in geodetic study of the earth's crust movements.

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