

2nd International Conference and Exhibition on

Satellite & Space Missions

July 21-23, 2016 Berlin, Germany

Scientific Program



UK: Conference Series llc LTD

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Experience I+II

conference**series**.com 08:30-09:00

Opening Ceremony

Keynote Forum

09:00-09:05	Introduction
09:05-09:30	Title: Revolution of space technology, new idea how we can speed up time travel to planets by using electromagnetic field in space Capt. Abdullah Al Zahrani, Alzahrani Space Innovation, Poland
09:30-09:55	Title: Flexible description of earth observation data processing Dorian Gorgan, Technical University of Cluj-Napoca, Romania
09:55-10:20	Title: Human long duration space missions: Space dentistry, medicine and space policy Balwant Rai, Kepler Space Institute, USA

Networking & Refreshments 10:20-10:35 @ Main Lobby

Group Photo

Sessions:

Space Missions | Space Exploration | Earthquake Engineering | Types of Satellites and Applications | Aerospace Engineering and Technology | Applications of Satellite Technology | Climate change and Weather forecasting

Session Chair: Dorian Gorgan, Technical University of Cluj-Napoca, Romania

Session Co-Chair: Joseph Seckbach, The Hebrew University of Jerusalem, Israel

Session Introduction

10:35-10:55	Title: Current issues in Space Situational Awareness (SSA) and Space Traffic Management (STM) Mark A Skinner, The Boeing Company, USA
10:55-11:15	Title: Space simulated missions and space research: Human health Balwant Rai, Kepler Space Institute, USA
11:15-11:35	Title: Geodetic earthquake forecasting and crustal deformation modeling from point position changes using GPS data Yüksel Altiner, Federal Agency for Cartography and Geodesy in Frankfurt am Main, Germany
11:35-11:55	Title: Characteristics of hypervelocity impact of micro-particles on multi-foils shield configurations Sunil C Joshi, Nanyang Technological University, Singapore
11:55-12:15	Title: Implementation of a micro-satellite program in the infrastructure of the Russian segment of the International Space Station Stanislav I Klimov, Russian Academy of Sciences (IKI RAS), Russia
12:15-12:35	Title: Analytical method for space debris propagation under perturbations in the geostationary ring Daniel Casanova Ortega, University of Zaragoza, Spain
12:35-12:55	Title: Dealing with the Earth's ionosphere's complexity Massimo Materassi, Institute for Complex Systems of the National Research Council, Italy

Lunch Break 12:55-13:35 @ Element I+II Restaurant

13:35-13:55	Title: PC index as a ground-based proxy of the solar wind energy incoming into the magnetosphere: Means for space weather monitoring Oleg Troshichev, Arctic and Antarctic Research Institute, Russia
13:55-14:15	Title: Joint viterbi detector/decoder for satellite communications Chan Kheong Sann, Data Storage Institute (DSI), Singapore
14:15-14:35	Title: From extremophilic microbes to extraterrestrial possibilities of life Joseph Seckbach, The Hebrew University of Jerusalem, Israel
14:35-14:55	Title: How to talk about Einstein's general theory of relativity? Oyvind G Gron, Oslo and Akershus University, Norway
14:55-15:15	Title: Analysis of launch opportunity for low-thrust interplanetary missions Maffione Porzia Federica, Politecnico di Torino, Italy

Networking & Refreshments 15:15-15:30 @ Main Lobby

- 15:30-15:50** Title: **Electrochemical behavior in acidic medium of Al-2.0 wt. %Fe aerospace alloy treated by laser surface remelting**
Moisés Meza Pariona, State University of Ponta Grossa, Brazil
- 15:50-16:10** Title: **Analysis of (soft) soil parameter uncertainty in planetary rover mobility simulations**
Alberto Gallina, AGH University of Science and Technology, Poland
- 16:10-16:30** Title: **Services for space missions support within the ESA space situational awareness space weather service network**
Erwin De Donder, Royal Belgian Institute for Space Aeronomy, Belgium
- 16:30-16:50** Title: **Monitor and study horizontal and verticals changes at land surface using remote sensing and GIS technology**
Mohamed Mhmod, Jilin University, China
- 16:50-17:10** Title: **Development of the statistical theory of forming cosmogonical bodies to explain a stability of the orbital movements of planets and the forms of planetary orbits**
Alexander M Krot, United Institute of Informatics Problems of National Academy of Sciences, Belarus

Networking & Refreshments 17:10-17:25 @ Main Lobby

- 17:25-17:45** Title: **Geospatial approaches for micro level farm planning - A step to enhance crop productivity**
Sathish Ayyappa, University of Agricultural Sciences, India
- 17:45-18:05** Title: **Space-based solar laser system simulation to transfer power onto the Earth**
Yasser A Abdel-Hadi, National Research Institute of Astronomy and Geophysics (NRIAG), Egypt
- 18:05-18:25** Title: **Design and realization of payload operation and application ground system of China's space**
Hongfei Wang, Chinese Academy of Sciences, China
- 18:25-18:45** Title: **Major crops classification using time series MODIS EVI with adjacent years of ground reference data in the US state of Kansas**
Muhammad Shakir, University of Chinese Academy of Sciences, China

Panel Discussion

Day 2 July 22, 2016

Experience I+II

Keynote Forum

- 09:00-09:05** Introduction
- 09:05-09:30** Title: **New perspectives of combined data sets for environmental information**
Barbara Koch, Albert-Ludwigs University of Freiburg, Germany
- 09:30-09:55** Title: **Celebrating the centenary of the Schwarzschild solutions and Einstein's prediction of gravitational waves and their detection by LIGO**
Oyvind G Gron, Oslo and Akershus University, Norway
- 09:55-10:20** Title: **History and modernity of the study of space weather in Russia**
Stanislav I Klimov, Institut Kosmicheskikh Issledovaniy - RAS, Russia

Networking & Refreshments 10:20-10:35 @ Main Lobby

Sessions:

Orbital Mechanics | Satellite Remote Sensing and GIS | Satellite Subsystems | Satellite Communication | Satellite Navigation and Communication | LTE-based ground network and Satellite networks

Session Chair: Barbara Koch, Albert-Ludwigs University of Freiburg, Germany

Session Co-Chair: Nicolas H Younan, Mississippi State University, USA

Session Introduction

- 10:35-10:55** Title: **ISEE III reboot project or how to save an interplanetary spacecraft on a shoestring budget**
Dennis Wingo, Skycorp Incorporated, USA
- 10:55-11:15** Title: **Information retrieval from Earth Observation (EO) imagery**
Nicolas H Younan, Mississippi State University, USA
- 11:15-11:35** Title: **Potential of different sensor combination approaches for the estimation of above ground biomass**
Barbara Koch, Albert-Ludwigs University of Freiburg, Germany
- 11:35-11:55** Title: **New methods for remote sensing of altitude profiles of the O(³P), O₃ and CO₂ in the daytime mesosphere and lower thermosphere**
Valentine A Yankovsky, St. Petersburg State University, Russia

- Title: Orbital dynamics of a solar sail accelerated by thermal desorption of coatings**
11:55-12:15 Elena Ancona & Roman Ya Kezerashvili, Polytechnic University of Turin, Italy/The City University of New York, USA
- Title: Cloud detection in the sun area of total sky images using a conventional and a low-cost sky camera**
12:15-12:35 Joaquín Alonso Montesinos, University of Almería, Spain
- Title: From space to Earth: the GPR frontiers**
12:35-12:55 Pier Matteo Barone, The American University of Rome, Italy

Lunch Break 12:55-13:30 @ Element I+II Restaurant

- Title: The theory of solar zenith – Proposed new rules for the seasons of year in intertropical locations focusing Salvador Bahia**
13:30-13:50 Luiz Sampaio Athayde Junior, UFBA-Federal University from Bahia, Brazil
- Title: Synoptical monitoring of climatic thermic fronts on the surface of the Southern Ocean by means of satellite remote sensing and in situ measurements**
13:50-14:10 Victor V Ionov, St. Petersburg State University, Russia
- Title: Using multispectral and hyperspectral satellite imagery in ecological and geographical studies**
14:10-14:30 Mikhail Yu. Puzachenko, Institute of Geography RAS, Russia
- Title: Impervious surface detection using very high spatial resolution satellite data**
14:30-14:50 Ebrahim Taherzadeh Mobarakeh, Ground Data Solutions R&D Sdn Bhd, Malaysia
- Title: Enhanced chemical vapor sensing by single-stranded DNA-graphene**
14:50-15:10 Seong Chan Jun, Yonsei University, Korea

Networking & Refreshments 15:10-15:30 @ Main Lobby

Poster Presentations 15:10-15:45

- Title: The evaluation of solar farm locations applying geographic information system and multi-criteria decision-making methods: Case study in Southern Morocco**
15:30-15:50 Meryem Tahri, University Hassan II, Morocco
- Title: Unveiling the first high resolution satellite mosaic coverage of Botswana's Okavango Delta**
15:50-16:10 Hamisai Hamandawana, University of Fort Hare, South Africa
- Title: Changing paradigm in satellite design, development and assembly with 3D printing**
16:10-16:30 Sunil C Joshi, Nanyang Technological University, Singapore

Networking & Refreshments 16:30-16:40 @ Main Lobby

- Title: WorDeL Language – Tutorial on flexible description of Earth observation data processing**
16:40-18:40 Dorian Gorgan, Victor Bacu, Constantin Nandra, Technical University of Cluj-Napoca, Romania
- Title: Detecting coastline changes using GIS and remote sensing, a case study from oman**
18:40-19:00 Lotfy Kamal Azaz, Menofya University, Egypt

Panel Discussion

Award Ceremony

Day 3 July 23, 2016

Extended Networking Session