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2nd International Conference and Exhibition on

Satellite & Space Missions

July 21-23, 2016 Berlin, Germany

Scientific Program



Day 1 July 21, 2016

08:00-08:30 Registrations

Experience I+II

conferenceseries.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. AbdullahAl 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 magnetoshere: 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 Kosmicheskih Issledovanyi - 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 $O(^3P)$, O_3 and CO_2 in the daytime mesosphere and lower thermosphere**
Valentine A Yankovsky, St. Petersburg State University, Russia

11:55-12:15	**Title: Orbital dynamics of a solar sail accelerated by thermal desorption of coatings** **Elena Ancona & Roman Ya Kezerashvili,** Polytechnic University of Turin, Italy/The City University of New York, USA
12:15-12:35	**Title: Cloud detection in the sun area of total sky images using a conventional and a low-cost sky camera** **Joaquín Alonso Montesinos,** University of Almería, Spain
12:35-12:55	**Title: From space to Earth: the GPR frontiers** **Pier Matteo Barone,** The American University of Rome, Italy
	Lunch Break 12:55-13:30 @ Element I+II Restaurant
13:30-13:50	**Title: The theory of solar zenith – Proposed new rules for the seasons of year in intertropical locations focusing Salvador Bahia** **Luiz Sampaio Athayde Junior,** UFBA-Federal University from Bahia, Brazil
13:50-14:10	**Title: Synoptical monitoring of climatic thermic fronts on the surface of the Southern Ocean by means of satellite remote sensing and in situ measurements** **Victor V Ionov,** St. Petersburg State University, Russia
14:10-14:30	**Title: Using multispectral and hyperspectral satellite imagery in ecological and geographical studies** **Mikhail Yu. Puzachenko,** Institute of Geography RAS, Russia
14:30-14:50	**Title: Impervious surface detection using very high spatial resolution satellite data** **Ebrahim Taherzadeh Mobarakeh,** Ground Data Solutions R&D Sdn Bhd, Malaysia
14:50-15:10	**Title: Enhanced chemical vapor sensing by single-stranded DNA-graphene** **Seong Chan Jun,** Yonsei University, Korea
	Networking & Refreshments 15:10-15:30 @ Main Lobby
	Poster Presentations 15:10-15:45
15:30-15:50	**Title: The evaluation of solar farm locations applying geographic information system and multi-criteria decision-making methods: Case study in Southern Morocco** **Meryem Tahri,** University Hassan II, Morocco
15:50-16:10	**Title: Unveiling the first high resolution satellite mosaic coverage of Botswana's Okavango Delta** **Hamisai Hamandawana,** University of Fort Hare, South Africa
16:10-16:30	**Title: Changing paradigm in satellite design, development and assembly with 3D printing** **Sunil C Joshi,** Nanyang Technological University, Singapore
	Networking & Refreshments 16:30-16:40 @ Main Lobby
16:40-18:40	**Title: WorDeL Language – Tutorial on flexible description of Earth observation data processing** **Dorian Gorgan, Victor Bacu, Constantin Nandra,** Technical University of Cluj-Napoca, Romania
18:40-19:00	**Title: Detecting coastline changes using GIS and remote sensing, a case study from oman** **Lotfy Kamal Azaz,** Menofya University, Egypt
	Panel Discussion
	Award Ceremony
	Day 3 July 23, 2016
	Extended Networking Session

Bookmark your dates

3rd Satellite & Space Missions Conference

May 11-13, 2017 Barcelona, Spain

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