



International Workshop on Satellite and Space missions: Developments and Applications

04-05 June 2016, Cataract Hotel, Cairo, EGYPT General Program

Day 1- Saturday 04 June 2016, Room A

No of	Time	Title and Speakers
papers		
	8:00—10:00	Registration
	10:00—11:00	Welcome and honorable Speeches
	11: 0011:30	Coffee Break
	11:30 -13:30	Session 1- Attitude Dynamics and Formation Control
		Chair of the session. Prof. DSC, H. M. Yehia and Prof. Balbir Singh
1	11:30—12:00	Attitude system design: balancing real satellite and analysis complexity
		Mikhail Ovchinnikov
2	12:00—12:30	Optimal Control for Lorentz –Augmented Spacecraft Formation Flying
	12.20 12.15	Yehia Abdel-Aziz
3	12:30—12:45	Control law Design for Satellite Tracking Mode
4	12.45 12.00	Abdel-Hady Elbeltagy
4	12:45—13:00	Interactive user interface for multiple attitude representation and estimation
		techniques
5	13:00—13:15	A. <u>Refaat Hamed</u> Identifying the Attitude of Dynamic systems using Neural Network
3	15:00—15:15	Ahmed M.EL Dakrory
6	13:15—13:30	Design and Performance Study of a Low Thrust Spacecraft Trajectory
U	15.15—15.50	using Hybrid Optimization Technique
		Kumud Yadav
7	13:30—13:45	Fuzzy control for the sequential switching shunt regulator
,	10.00	Ahmed Kamel
	13:4514:45	Lunch Break
	14:45—16:00	Session 2- Space Environment and its interaction with Spacecraft
		Chair of the session. Prof. Benjamin Ayantunji and Prof. Makram Ibrahim
8	14:45—15:15	Spacecraft Charging and Discharging: Ground Test in NRIAG- EGYPT
		Afaf Abd EL-Hameed
9	15:15—15:30	Characterization of the Outgassing of Spacecraft Materials
		Ahmad Anwar
10	15:30—15:45	Development of the Digital Solar Spectrograph Station in Helwan for Solar
		Variability Observations
1.1	15.45. 16.00	Ahmed Ghitas
11	15:45—16:00	Optical Characteristics for Surface Images of Gold Thin Films Deposited on
		Polymer Substrate Marcof A. Hagazy
	16.00 16.20	Maroof A. Hegazy
	16:00—16:30	Coffee Break





	16:30—18:00	Session 3- Space Environment and its interaction with Spacecraft Chair of the session. Dr. Tom Segert and Dr Mohamed Kassab
12	16:30—17:00	Space radiation in (commercial) human space flights and potential countermeasures
13	17:00—17:15	Irene Schneider First observed Coronal Mass Ejection from the Middle East using Cosmic Rays Ismail Sabbah
14	17:00—17:15	Satellite Health data Monitoring, Anomaly Detection and Diagnosis via PLS Batch Modelling Ahmad M. Al-Zaidy
15	17:30—17:45	Probing relationship between solar activities and seismicity during weak solar cycle 23 Mohamed Ahmed Semeida
16	17:45—18:00	Preliminary assessment of space radiation environment and its impact on the small sat materials Esraa A. El-Aziz
	18:00—19:00	Session 4- Poster Session Chair: Prof. Gamal Attia and Dr. Ahmed Farrag
17		Optimal Time Slew Maneuver Using Single Gimbal Control Moment Gyro for Small Agile satellites Mohamed A. Elkhayat
18		Analysis and simulation of aerial unmanned vehicle using pure pursuit guidance law Ahmed Elsawi
19		Robust Nonlinear Combined Attitude Control Algorithm Using Control Moment Gyro for Agile Satellites Mohamed A. Elkhayat
20		Single Event Upset Characterization for LM124 Operational Amplifier Using Picosecond Pulsed Laser System Amira Hussein
21		Comparative Analysis Of Eol Performance For Different Space Solar Cells Using Two Different Approaches Dina Said
22		On The Classifications of The Solar Activr Regions (Ars) Wael Ahmed
23		Modified Cloud Method Validation For Determing Physical Parameters Of A Moderate Flare On June 26, 1999 Mohamed Semeida
24		New Age Cybernetic Game Theory WHAT "is" BEST Pedagogy & Emergency Management for User/GROUPS J. Allen Sprute
25		Active Infaltable De-orbitting device for Cubesat Mohamed A. Abo Arais





26	Short Arc Technique for Baselines Déterminations
	Gamal F.Attia
27	Simulation of J_2 Invariant Relative Polar Orbits Conditions
_,	Shaheera A. Altalhi
28	Effects Of Gravitational Waves Emission On The Orbits Of the Binary Neutron
20	Stars Considering The Mass Variation
	Zeinab A. Mabrouk
29	Orbit Determination Modeling Analysis by GPS
	Ahmed Adel Abd-Elhamed
30	Modelling and Computational Analysis of Rarefied Flow Field for Hypersonic Re-
	entry Vehicles
	Yuvi Nanda
31	FM Transmitting and imaging Pico-satellite based on open source tools
	Mohamed A. Abo Arais
32	Recovery of the Failure in Satellite Power Subsystem by Using Reconfigurable
	Power Conditioning Unit
	Hend Nabil
33	IMPORTANCE OF RADIO TELESCOPES
	<u>Ikape Margaret</u>
34	Comparative Study Between Silicon & Gallium Arsenide ON Grid PV System
25	Mahmoud M Ismail
35	High power S-band satellite power amplifier design and analysis
	Ahmed Esmail Ahmed
36	Development of an SMS controlled car Security system Via Voice recording and
	image capturing
	Adewumi Adebayo Segun
37	Using satellite images to monitor and model urban land use change in Alexandria,
	Egypt
	Lotfy Kamal AZAZ





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Day 2- Sunday 05 June 2016, Room A

	TD*	m'd 10 1
	Time	Title and Speakers
	9:00 —11:00	Session5: Space Mission and Satellite Subsystem
		Prof. Mikhail Ovchinnikov and Dr. Aymen Ahmed
38	9:00—9:30	Kent Ridge 1 – First in-orbit results of a novel hyper spectral small satellite mission
		Tom Serget
39	9:30—9:45	Design And Implementation Of Space Qualified Camera Computer System Using
		Commercial Of The Shelf Components
		Aymen Ahmed
40	9:45—10:00	Implementing QPSK Modulator with Low Resources Utilization and Power Consumption
		for Satellites Communication Systems using Kintex-7
		Mohamed El-Hady
40	10:00—10:15	Environmental Testing of Space Deployment Mechanism (SDM) for Solar Array (AS) of
		Small Satellite
		Mohamed Kassab
42	10:15—10:30	Failure modes, effects and criticality analysis Of LEO satellite solar array
10	10.00	Ahmed Refaee
43	10:30—10:45	Mechanical properties and wear behavior of short basalt Fiber reinforced acrylonitrile-
		butadiene-styrene as a new composite material
4.4	10.45 11.00	Hesham Fathy
44	10:45—11:00	Modeling of Nonlinear Errors for Integrated GPS/MEMS-based INS Navigation Systems
		Maged Ismail Mohamed
	11:00—11:30	Coffee Break
	11.00 11.50	Conce break
	11:30—13:30	Session6: Space Mission and Satellite Subsystem
	11.50 15.50	Prof. Rabab Helal and Dr. Dr. RasitAbay
45	11:30—12:00	Space Tribology and its applications in Spacecraft Mechanisms.
		Balbir Singh
46	12:00—12:15	Failure detection module for satellite failure management system.
		Noran Tobar
47	12:15—12:30	3D Scene Construction – Live Scene Streaming Virtual Reality Enabled Can-Sat
		Mohamed A. Abo Arais
48	12:30—12:45	IMPLICATIONS OF COMMERCIAL EARTH OBSERVATION SATELLITES ON
		THE SOVEREIGNTY OF NATIONS
		Mujahid Indabawa
49	12:45—13:00	Space Missions and their impact in field of stellar astrophysics
		Somaya Saad





50	13:00—13:15	Performance Assessment of ANN in Estimating Remotely Sensed Extracted Bathymetry:
		Case Study: Eastern Harbor of Alexandria
		Omar Makboul
51	13:15—13:30	Space-Based Solar Laser System Simulation to Transfer Power onto the Earth
		Yasser A. Abdel-Hadi
	13:30—14:30	Lunch Break

Day 2- Sunday 05 June 2016, Room A

	14:30—16:00	Session7: Orbital Mechanics
		Prof. Khalil I. Khalil and Dr. Mohamed Ibrahim
52	14:30—14:45	Modeling of two stage Launch Vehicle trajectory
		Assem Sallam
53	14:45—15:00	Orbit Determination Software "Or Det" with graphical representation
		Assem Sallam
54	15:00—15:15	Orbit Determination Modeling Using GPS coupled with Earth Geopotential
		Ahmed Badwy
55	15:15—15:30	Improved Two Line Element Sets Using Kolmogorov Arnold Moser Orbit Determination
		Rasıt Abay
56	15:30—15:45	Canonical Formulation for the Laser Orbital Perturbations
		Nabawia Khalifa
57	15:45—16:00	Initial orbit determination from observation for low earth orbit
		Ahmed Magdy Abdelaziz
	16:00—16:30	Coffee Break





Day	2- Sunday 05 Ju	ne 2016, Room B
	14:30—16:00	Session8: Remote Sensing and Satellite's Applications
		Prof. Ahmed Ghitas and Prof.Benjamin Ayantunji
58	14:30—14:45	Some Applications of Satellite Data in Improving the Geodetic Infrastructure in Saudi Arabia
		Abdulaziz Alothman
59	14:45—15:00	Comprehensive Study of the Atmospheric Effects on Terrestrial and Satellite
		Communications over Nigeria
		Benjamin Ayantunji
60	15:00—15:15	Effect of differential code biases on the GPS CORS network: a case study of Egyptian
		Permanent GPS Network (EPGN)
		Ashraf Mousa
61	15:15—15:30	Performance of the GIS interpolation techniques to estimate the accumulated sediment in
		Nubia Lake, Sudan.
		Mohamed Elsahabi
62	15:30—15:45	Analysis of Smear Effect in High Resolution Remote Sensing Satellites
ŭ _	10.00	Walid Wahballah
63	15:45—16:00	Modeling of tropical rain rate & raindrop size distributions for application in rain
00	10.00	Attenuation prediction on Earth-Space paths
		Kingsley Orisekeh
	16:00—16:30	Coffee Break
	2000 2000	
Dov	2- Sunday 05 Ju	ne 2016, Room B
<u> Дау</u>	2- Sunday 03 Ju	ne 2010, Room D
	16:30—17:45	Session9: Remote Sensing and Satellite's Applications
		Prof. Ashraf Mousa and Prof. Abdulaziz Alothman
64	16:30—16:45	Study Of Surface Radio Refractivity Variations Across Some Selected Cities In Nigeria
		Musa Bawa
65	16:45—17:00	Performance Assessment of ANN in Estimating Remotely Sensed Extracted Bathymetry:
		Case Study: Eastern Harbor of Alexandria
		Omar Makboul
66	17:00—17:15	Using GIS for landfill site selectionCase study from Oman
		Lotfy Kamal AZAZ
67	17:15—17:30	Comparison of MODIS Satellite Aerosol Optical Depth Retrievals Based on Airborne
		Measurements Data during Helwan 2014-2015
		U. Ali Rhoma
68	17:30—17:45	
68	17:30—17:45	Applications of thermal remote sensing for mapping anomalies in land surface
68	17:30—17:45	Applications of thermal remote sensing for mapping anomalies in land surface temperatures of basaltic lava fields (Harrat) – Hail – Saudi Arabia
68	17:30—17:45	Applications of thermal remote sensing for mapping anomalies in land surface
68	17:30—17:45 17:45-18:15	Applications of thermal remote sensing for mapping anomalies in land surface temperatures of basaltic lava fields (Harrat) – Hail – Saudi Arabia