



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
	Time	The and speakers
papers	0.00 10.00	Desistantian
	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 Yehia Abdel-Aziz
3	12:30—12:45	Control law Design for Satellite Tracking Mode <u>Abdel-Hady Elbeltagy</u>
4	12:45—13:00	Interactive user interface for multiple attitude representation and estimation techniques A. Refaat Hamed
5	13:00—13:15	Identifying the Attitude of Dynamic systems using Neural Network Ahmed M.EL Dakrory
6	13:15—13:30	Design and Performance Study of a Low Thrust Spacecraft Trajectory using Hybrid Optimization Technique Kumud Yadav
7	13:30—13:45	Fuzzy control for the sequential switching shunt regulator 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 Ahmed Ghitas
11	15:45—16:00	Optical Characteristics for Surface Images of Gold Thin Films Deposited on Polymer Substrate 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 agging Dr. Tom Segert and Dr. Makemed Keesely
10	1620 17.00	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
		<u>Irene Schneider</u>
13	17:00—17:15	First observed Coronal Mass Ejection from the Middle East using Cosmic Rays
		<u>Ismail Sabbah</u>
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
10	17.15 10.00	sat materials
		Esraa A. El-Aziz
		LSIGG A. LI-AZIZ
	18:00—19:00	Session 4- Poster Session
	10.00—19.00	
17		Chair: Prof. Gamal Attia and Dr. Ahmed Farrag
17		Optimal Time Slew Maneuver Using Single Gimbal Control Moment Gyro for
		Small Agile satellites
10		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
2.4		
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
II	1	





26	Short Arc Technique for Baselines Déterminations
	Gamal F.Attia
27	$\overline{\text{Simulation of }}J_2$ Invariant Relative Polar Orbits Conditions
	Shaheera A. Altalhi
28	Effects Of Gravitational Waves Emission On The Orbits Of the Binary Neutron
	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
	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
38	Monitoring Land Use Land Cover Changes on Suez Canal region using Remote
	Sensing
	Wael Mohamed Sayed





International Workshop on Satellite and Space missions: Developments and Applications 04-05 June 2016, Cataract Hotel, Cairo, EGYPT General Program

Day 2- Sunday 05 June 2016, Room A

for Satellites Communication Systems using Kintex-7 Mohamed El-Hady 42 10:00—10:15 Environmental Testing of Space Deployment Mechanism (SDM) for Solar Array (AS) Small Satellite Mohamed Kassab 43 10:15—10:30 Failure modes, effects and criticality analysis Of LEO satellite solar array Ahmed Refaee 44 10:30—10:45 Mechanical properties and wear behavior of short basalt Fiber reinforced acrylonitrile- butadiene-styrene as a new composite material Hesham Fathy 45 10:45—11:00 Modeling of Nonlinear Errors for Integrated GPS/MEMS-based INS Navigation System Maged Ismail Mohamed 11:30—13:30 Session6: Space Mission and Satellite Subsystem Prof. Rabab Helal and Dr. Dr. RasitAbay			Title and Chapters
Prof. Mikhail Ovchinnikov and Dr. Aymen Ahmed		Time	Title and Speakers
Prof. Mikhail Ovchinnikov and Dr. Aymen Ahmed		9:00 —11:00	Session5: Space Mission and Satellite Subsystem
39 9:00—9:30 Kent Ridge 1 – First in-orbit results of a novel hyper spectral small satellite mission Tom Serget			
Tom Serget Design And Implementation Of Space Qualified Camera Computer System Using Commercial Of The Shelf Components Aymen Ahmed	39	9:00—9:30	
Commercial Of The Shelf Components Aymen Ahmed Implementing QPSK Modulator with Low Resources Utilization and Power Consumpt for Satellites Communication Systems using Kintex-7 Mohamed El-Hady Interventing QPSK Modulator with Low Resources Utilization and Power Consumpt for Satellites Communication Systems using Kintex-7 Mohamed El-Hady Environmental Testing of Space Deployment Mechanism (SDM) for Solar Array (AS) Small Satellite Mohamed Kassab Failure modes, effects and criticality analysis Of LEO satellite solar array Ahmed Refaee Mechanical properties and wear behavior of short basalt Fiber reinforced acrylonitrile-butadiene-styrene as a new composite material Hesham Fathy Modeling of Nonlinear Errors for Integrated GPS/MEMS-based INS Navigation System Maged Ismail Mohamed Interventing Maged Ismail Mohamed Session6: Space Mission and Satellite Subsystem Prof. Rabab Helal and Dr. Dr. RasitAbay			
Aymen Ahmed 10:00 Implementing QPSK Modulator with Low Resources Utilization and Power Consumpt for Satellites Communication Systems using Kintex-7 Mohamed El-Hady	40	9:30—9:45	Design And Implementation Of Space Qualified Camera Computer System Using
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		11.50 15.50	
1.40 1.11.50—1∠300 Space 1fidology and its additions in Spacecraft Mechanisms.	46	11:30—12:00	Space Tribology and its applications in Spacecraft Mechanisms.
Balbir Singh		11.00	
47 12:00—12:15 Failure detection module for satellite failure management system.	47	12:00—12:15	
Noran Tobar			= -
48 12:15—12:30 3D Scene Construction – Live Scene Streaming Virtual Reality Enabled Can-Sat	48	12:15—12:30	
Mohamed A. Abo Arais			· · · · · · · · · · · · · · · · · · ·
49 12:30—12:45 IMPLICATIONS OF COMMERCIAL EARTH OBSERVATION SATELLITES ON	49	12:30—12:45	
THE SOVEREIGNTY OF NATIONS			
Mujahid Indabawa			





50	12:45—13:00	Space Missions and their impact in field of stellar astrophysics
		Somaya Saad
51	13:00—13:15	Performance Assessment of ANN in Estimating Remotely Sensed Extracted Bathymetry:
		Case Study: Eastern Harbor of Alexandria
		Omar Makboul
52	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
53	14:30—14:45	Modeling of two stage Launch Vehicle trajectory
		Assem Sallam
54	14:45—15:00	Orbit Determination Software "Or Det" with graphical representation
		Assem Sallam
55	15:00—15:15	Orbit Determination Modeling Using GPS coupled with Earth Geopotential
		Ahmed Badwy
56	15:15—15:30	Improved Two Line Element Sets Using Kolmogorov Arnold Moser Orbit Determination
		Rasit Abay
57	15:30—15:45	Canonical Formulation for the Laser Orbital Perturbations
		Nabawia Khalifa
58	15:45—16:00	Initial orbit determination from observation for low earth orbit
		Ahmed Magdy Abdelaziz
	16:00—16:30	Coffee Break





<u>Day</u>	2- Sunday 05 Ju	no 2016 Doom P
		<u>nie 2010, Room B</u>
	14:30—16:00	Session8: Remote Sensing and Satellite's Applications
		Prof. Ahmed Ghitas and Prof.Benjamin Ayantunji
59	14:30—14:45	Some Applications of Satellite Data in Improving the Geodetic Infrastructure in Saudi Arabia <u>Abdulaziz Alothman</u>
60	14:45—15:00	Comprehensive Study of the Atmospheric Effects on Terrestrial and Satellite Communications over Nigeria
<u></u>	15.00 15.15	Benjamin Ayantunji
61	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
62	15:15—15:30	Performance of the GIS interpolation techniques to estimate the accumulated sediment in
02	13.13 13.30	Nubia Lake, Sudan. Mohamed Elsahabi
63	15:30—15:45	Analysis of Smear Effect in High Resolution Remote Sensing Satellites
55	15.55 15.15	Walid Wahballah
64	15:45—16:00	Modeling of tropical rain rate & raindrop size distributions for application in rain
		Attenuation prediction on Earth-Space paths
		Kingsley Orisekeh
	16:00—16:30	Coffee Break
Day	2- Sunday 05 Ju	ne 2016, Room B
<u>Day</u>	2- Sunday 05 Ju 16:30—17:45	
Day	_	Session9: Remote Sensing and Satellite's Applications Prof. Ashraf Mousa and Prof. Abdulaziz Alothman
<u>Day</u> 65	_	Session9: Remote Sensing and Satellite's Applications Prof. Ashraf Mousa and Prof. Abdulaziz Alothman
	16:30—17:45	Session9: Remote Sensing and Satellite's Applications Prof. Ashraf Mousa and Prof. Abdulaziz Alothman Study Of Surface Radio Refractivity Variations Across Some Selected Cities In Nigeria
65	16:30—17:45 16:30—16:45	Session9: Remote Sensing and Satellite's Applications Prof. Ashraf Mousa and Prof. Abdulaziz Alothman Study Of Surface Radio Refractivity Variations Across Some Selected Cities In Nigeria Musa Bawa
	16:30—17:45	Session9: Remote Sensing and Satellite's Applications Prof. Ashraf Mousa and Prof. Abdulaziz Alothman Study Of Surface Radio Refractivity Variations Across Some Selected Cities In Nigeria Musa Bawa Performance Assessment of ANN in Estimating Remotely Sensed Extracted Bathymetry:
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