



**The First International Conference on New Horizons in Basic and Applied
Science, 21-23 September 2013. Hurghada, Egypt**

Organized by

Faculty of Science (Assiut), Al-Azhar University

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Under the auspices of his Excellency

Prof. Dr. Ahmed El Tayeb,

Grand Imam of Al-Azhar

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President of Al Azhar University

Prof. Dr. Usama M. Abdul-Raouf

Dean Faculty of Science (Assit), Al Azhar University

General Chairman

Dr. Hany A. Hosham

Coordinator and Secretary

Program Book

Oral Sessions Index

Session I: Aspects of Mathematics and its Applications			
First Day September, 21, 2013 (Saturday)	Hall No. 1	From 10:30 To 16:00	10 Papers +2 Invited Speakers
Chairpersons	<i>Ahmed Zahran & Mohamed Abdel-Latif Ramadan</i>		

No.	Time	Code	Presenter & Title
1	10:30-11:00	Invited Speaker MA1	<i>Abdul Shafi F. Obada, Professor & President of the Egyptian Mathematical Society, Al- Azhar University, Cairo, Egypt</i> Measures of Entanglement
2	11:00-11:30	Invited Speaker MA2	<i>Ahmed M. A. El-Sayed, Alexandria University, Egypt</i> Fractional Calculus Operators and Intermediate Physical Processes
11:30-12:00			Coffee Break
3	12:00-12:15	MA01	<i>Tamer Mostafa Al-Ajmi, Cairo University, Egypt</i> Spectral Method for Solving Some Types of Fractional Optimal Control Problems
4	12:15-12:30	MA02	<i>Mohamed Safaa Osman, Cairo University, Egypt</i> The Extended Unified Method to Construct New Exact Solutions for Nonlinear Evolution Equations with Variable Coefficients
5	12:30-12:45	MA03	<i>Dirhem Ghaleb Mohsen Al-Amery, Assiut University, Egypt</i> An Efficient High-Order Method for Singularly Perturbed Nonlinear Differential Equations with Small Shifts
6	12:45-13:00	MA04	<i>Ahmed Abd-Elhamed Mohamed Shoreh, Al-Azhar University, Assiut, Egypt</i> Exact Traveling Wave Solutions for the BBM Equation, Schamel Equation and Modified Kawahara Equation
7	13:00-13:15	MA05	<i>Mohamed Abd El-Rahman Ahmed, Assiut University, Egypt</i> Some Common Fixed Point Theorems for Strict Contractions
8	13:15-13:30	MA06	<i>Hasanen A. Hammad, Sohag University, Egypt</i> Common Fixed Point Theorems for Weak Contraction Mappings of Integral Type
13:30-15:00			Lunch
9	15:00-15:15	MA07	<i>Mohamed Ahmed Barakat, Al-Azhar University, Assiut, Egypt</i> A Coupled Fixed Point Theorem in Metric Spaces with Uniform Normal Structure
10	15:15-15:30	MA08	<i>Wadah El-Nini, Assiut University, Egypt</i> The Circle-Point Mapping Between Image Space and

			Parameter Space
11	15:30-15:45	MA09	<i>Saeed Altwqi, Assiut University, Egypt</i> Strong Convergence of S-Iterative Process for Two Multivalued Nonexpansive Mappings in CAT(K) Spaces
12	15:45-16:00	MA10	<i>Hassan Ayad, Cairo University, Egypt</i> A New Affinity Function for Fuzzy Connectedness Image Segmentation
16:00			Session End
19:00			Diner

Session I: Aspects of Mathematics and its Applications			
Second Day September, 22, 2013 (Sunday)	Hall No. 1	From 9:00 To 15:30	14 Papers +2 Invited Speakers
Chairpersons	<i>Abdul Shafi F. Obada & Ahmed M. A. El-Sayed</i>		

No.	Time	Code	Presenter & Title
1	9:00-9:30	Invited Speaker MA3	<i>Nasser Sweilam, Cairo University, Egypt</i> On the Fundamental Equations for Modelling Neuronal Dynamics
2	9:30-10:00	Invited Speaker MA4	<i>Nassar H. Abdel-All, Assiut University, Egypt</i> Influence of Geometry on the World Life
3	10:00-10:15	MA11	<i>Mohammad Hamad, Assiut University, Egypt</i> Heat Transfer of Non-Newtonian Power Law Fluids from Permeable Vertical Surface in Porous Medium Filled by Nanofluid with Yield Stress and Convective Boundary Condition
4	10:15-10:30	MA12	<i>Yasien Ghallab Gouda, Aswan University, Egypt</i> On the Homology Theory of Algebra
5	10:30-10:45	MA13	<i>Noha El Gareem, Cairo University, Egypt</i> The Evolution of the MacWilliams Extension Theorem to Codes over Finite Modules
6	10:45-11:00	MA14	<i>Fatma Elzahra'a Goma'a, Cairo University, Egypt</i> On Transferring Ring Theoretic Properties to Leavitt Path Algebras over Row-Infinite Graphs
7	11:00-11:15	MA15	<i>Tamer Hasham Farag, Cairo University, Egypt</i> An Extended Access-Point Allocation Algorithm for Adapting Link Speed Change in IEEE 802.11n in Wireless Mesh Network
8	11:15-11:30	MA16	<i>Moahmed Abu-shady, Menofia University, Egypt</i> Meson Properties in the Nambu–Jona-Lasinio (NJL) model without the Cut-Off Technique
11:30-12:00			Coffee Break
9	12:00-12:15	MA17	<i>Ayman A. Arafa, Sohag University, Egypt</i> Projective Synchronization in Coupled Hyperchaotic Complex Systems Using Passive Theory and Its Application to Secure Communications
10	12:15-12:30	MA18	<i>Mohammad Assem, Cairo University, Egypt</i> On the Number of Countable Models
11	12:30-12:45	MA19	<i>Mohamed Ibrahim Lashhab, University of Almergeb, Libyan Arab Jamahiriya</i> Analysis of Symmetric and Anti Symmetric Small Motions in 4 Layered Plates with Traction Free Boundary Conditions

12	12:45-13:00	MA20	<i>Abdel-gawad Hamdy, Cairo University, Egypt</i> On the General Water Wave Propagation in a Medium with Time Dependent Diffraction and Nonlinearity Coefficients
13	13:00-13:15	MA21	<i>Marwa Shaheen, Port Said University, Egypt</i> Influence of Various Environments on Information and Entanglement Dynamics for Two Interacting Qubits
14	13:15-13:30	MA22	<i>Esraa Gamal sayed Mohamed, Assiut University, Egypt</i> Evaluation of Internal Energy for Hot Dilute Relativistic Plasma
13:30-15:00			Lunch
15	15:00-15:15	MA23	<i>Hamdy Nour el din, Assiut University, Egypt</i> Tubular Weingarten Surfaces in Minkowski 3-Space
16	15:15-15:30	MA24	<i>Mahmoud Hozayn, National Research Centre, Egypt</i> Guidelines for the Design and Statistical Analysis of Biological Experiments
15:30			Session End
19:00			Diner

Session I: Aspects of Mathematics and its Applications			
Third Day September, 23, 2013 (Monday)	Hall No. 1	From 9:00 To 13:30	12 Papers +2 Invited Speakers
Chairpersons	<i>Nasser Sweilam & Nassar H. Abdel-All</i>		

No.	Time	Code	Presenter & Title
1	9:00-9:30	Invited Speaker MA5	<i>Mohamed Abdel-Latif Ramadan, Menoufia University, Egypt</i> On the Solutions of Matrix Equations
2	9:30-10:00	Invited Speaker MA6	<i>Tassilo K'upper, Cologne University, Germany</i> Invariant Manifolds for Nonsmooth Systems with Sliding Mode
3	10:00-10:15	MA25	<i>Mahmoud Abu-Moussa, Cairo University, Egypt</i> Estimation of Stress-Strength Parameter for BurrXII Distribution Based on Progressive Type-II Censoring
4	10:15-10:30	MA26	<i>Abd EL-Baset Ahmad, Assiut University, Egypt</i> Estimation in Constant-Stress Partially Accelerated Life Test Plans for Linear Exponential Distribution with Progressive Type-II Censoring
5	10:30-10:45	MA27	<i>Hassan A. El-Morshedy, Damietta University, Egypt</i> Global Attractivity in Population Models with Nonlinear Death Rates
6	10:45-11:00	MA28	<i>Sherif Niazi Ali, Al-Azhar University, Assiut, Egypt</i> Bayesian Estimation for Gompertz Distribution Under Type-II Doubly Censored Data
7	11:00-11:15	MA29	<i>Ragaa Ahmed Abbas, South Valley University, Egypt</i> The Binary and Triplet Distribution Function by Using Green's Function
8	11:15-11:30	MA30	<i>Shereen Mohammed, Assiut University, Egypt</i> Bayesian One Sample Prediction of Future GOS's from a Class of Finite Mixture Distributions Based on Generalized Type-I Hybrid Censoring Scheme
11:30-12:00			Coffee Break
9	12:00-12:15	MA31	<i>Mohamed Abd el sattar, South Valley University, Egypt</i> Step-Stress Partially Accelerated Life Testing Based on Birnbaum-Saunders Distribution Under Type-I Censoring
10	12:15-12:30	MA32	<i>Fatma Abd-alhaleem Hussain, Assiut University, Egypt</i> Enhancement of Interactive Face Image Deformation Based on Bounded Biharmonic Weights
11	12:30-12:45	MA33	<i>Amena Assem, Cairo University, Egypt</i> The Power of the Depth of Iteration in Defining Relations by Induction

12	12:45-13:00	MA34	<i>Muhammad Alhalaby, Cairo University, Egypt</i> Solving the Course Timetabling Problem of the Faculty of Science, Cairo University using Max-SAT
13	13:00-13:15	MA35	<i>Hany A. Hosham, Al-Azhar University, Assiut, Egypt</i> Aspects of Bifurcation Theory for Nonsmooth Dynamical Systems
14	13:15-13:30	MA36	<i>Shaban Aly, Al-Azhar University, Assiut, Egypt</i> Impulsive Control and Synchronization of Complex Lorenz System
13:30-15:00			Lunch
16:00			Closing & Remarks

Session II: Physics for Development and Modernization			
Second Day September, 22, 2013 (Sunday)	Hall No. 2	From 9:00 To 15:40	11 Papers +2 Invited Speakers
Chairpersons	<i>Yasser Saddeek & Mohamed Amin Uosif</i>		

No.	Time	Code	Presenter & Title
1	9:00-9:30	Invited Speaker PH1	<i>Mohamed El Oker, Al-Azahr University, Cairo, Egypt</i> Spectroscopy of Rare Earth Doped Glasses & Applications
2	9:30-10:00	Invited Speaker PH2	<i>Hassan AFIFY, National Research Center (NRC), Egypt</i> Solar Energy Science and Technology
3	10:00-10:20	PH01	<i>Hisham Ali Elshoky, Regional Center for Food and Feed, Egypt</i> Assembly of Nanobiosensor for Detection of Mycotoxins in Food
4	10:20-10:40	PH02	<i>Mahmmoud Sayed Abd El-sadek, South Valley University, Egypt</i> CdS/Mn(OH) ₂ Nanocomposites: Facile Aqueous Synthesis and Characterization
5	10:40-11:00	PH03	<i>Abdelnaby Elshahawy, Assiut University, Egypt</i> Mössbauer Studies of Ni-Cu Ferrite Nanoparticles Synthesized by the Microwave-Combustion Method
6	11:00-11:20	PH04	<i>Yasser Saddeek, Al-Azhar University, Assiut, Egypt</i> Infrared and Ultrasonic Study of La ₂ O ₃ -TeO ₂ Glasses
7	11:20-11:40	PH05	<i>Khaled Ebnalwaled, South Valley University, Egypt</i> Dewetting and Properties Amelioration for Semiconductors Device Applications
11:40-12:10			Coffee Break
8	12:10-12:30	PH06	<i>El-Sayed Mostafa Abd Elkaream, Al-Azhar University, Assiut, Egypt</i> The Optical Constants of Highly Absorbing Films Using the Spectral Reflectance Measured by Double Beam Spectrophotometer
9	12:30-12:50	PH07	<i>Essam Ramadan, Al-Azhar University, Assiut, Egypt</i> Optical Constants and Fitted Transmittance Spectra of Different Composition of Amorphous Ge ₁₅ Se _{85-x} Cu _x Thin Films in Terms of Spectroscopic
10	12:50-13:10	PH08	<i>Mustafa A. Abdel-Rahim, Assiut University, Egypt</i> Annealing Effect on Structural and Optical Properties of Se _{87.5} Te ₁₀ Sn _{2.5}
11	13:10-13:30	PH09	<i>Abdulnasser Saleh, University of Benghazi, Libyan Arab Jamahiriya</i> Positron Diffusion Length in Gallium Nitride

13:30-15:00			Lunch
12	15:00-15:20	PH10	<i>Abd el mo'ez Hussien, Sohag University, Egypt</i> Enhanced Low Field Magnetoresistance by Annealing Process
13	15:20-15:40	PH11	<i>Ali Elabd, Menoufiya University, Egypt</i> An Electrical Model – Equivalent Circuit – for Atom's Emission Is Presented and Hydrogen Atom Is Taken as an Example
15:40			Session End
19:00			Diner

Session II: Physics for Development and Modernization			
Third Day September, 23, 2013 (Monday)	Hall No. 2	From 9:00 To 13:20	10 Papers +1 Invited Speaker
Chairpersons	<i>El-Sayed Mostafa & Essam Ramadan</i>		

No.	Time	Code	Presenter & Title
1	9:00-9:30	Invited Speaker PH3	<i>Clemens Walther, Hannover University, Germany</i>
2	9:30-9:50	PH12	<i>Sayed El-Shahat, Assiut University, Egypt</i> Studies on the Effect of Pole Piece Shape for a Single Pole Magnetic Lens
3	9:50-10:10	PH13	<i>Reham M. Shabara, Damietta University, Egypt</i> The Structural, Electronic and Magnetic Properties of CeN and PmN: ab- initio Calculation
4	10:10-10:30	PH14	<i>Abdel-Fattah Gaber Mahmoud Gaber, Assiut University, Egypt</i> Investigation of the Precipitates Developed in Al Alloy (7475)
5	10:30-10:50	PH15	<i>Mohamed Amin Uosif, Al-Azhar University, Assiut, Egypt</i> Gamma- Ray Attenuation Properties of Some Ag-Cu-Sn Alloys
6	10:50-11:10	PH16	<i>Shaban Harb, South Valley University, Egypt</i> Concentration of ²³⁸ U, ²³² Th and ⁴⁰ K for Some Clay Samples from Tushka Area in South Egypt
7	11:10-11:30	PH17	<i>Ahmed Mohamed Ahmed Mostafa, Al-Azhar University, Assiut, Egypt</i> Natural Radioactivity and Radiological Hazards in Some Building Materials Used in New Assiut City, Egypt
11:30-12:00			Coffee Break
8	12:00-12:20	PH18	<i>Hesham Hamed, Al-Azhar University, Assiut, Egypt</i> A Comparative Study of the Radiological Hazard in Sediments Samples from Drinking Water Purification Plants Supplied from Different Sources
9	12:20-12:40	PH16	<i>Sherif Mokhtar, Assiut University, Egypt</i> Denesity Dependent of Alpha-Neucleon Effective Interaction from Elastic Scattering of Alpha-Particle
10	12:40-13:00	PH20	<i>Mahmoud Tammam, Al-Azhar University, Assiut, Egypt</i> The Effect of P11(1440) Resonance on the d(e, e' π^+)nn Reaction
11	13:00-13:20	PH21	<i>Ahmed Aly Ebrahim, Assiut University, Egypt</i> Analysis of K^+ Scattering by ^{12}C
13:20-15:00			Lunch
15:00			Closing & Remarks

Session III: Development of Chemistry and its Influence on the Life			
Second Day September, 22, 2013 (Sunday)	Hall No. 1	From 15:40 To 16:40	3 Papers
Chairperson	<i>Mohammed Abdel-Motaleb Abdel-Raheem</i>		

No.	Time	Code	Presenter & Title
1	15:40-16:00	CH01	<i>Mohamed Nageeb Rashed, Aswan University, Egypt</i> Chemical and Physical Treatment of Phosphate Slime to be used as Adsorbent for Removal of Heavy Metals from Polluted Water
2	16:00-16:20	CH02	<i>Ahmed Noman Mohammed Al-Hakimi, Ibb University, Yemen</i> Synthesis, Spectroscopic Characterization and Biological Activity of 2-(P-Toluidino)-N - (2-Hydroxybenzylidene) Acetohydrazide Complexes
3	16:20-16:40	CH03	<i>Modather Farouk, Al-Azhar university Assiut, Egypt</i> Upgrading and Utilization of Polyethylene by-Products as Additives for Lubricating Greases
16:40			Session End
19:00			Diner

Session IV: Advanced Research in Plant and Microbial Biotechnology			
First Day September, 21, 2013 (Saturday)	Hall No. 2	From 10:30 To 17:20	11 Papers +2 Invited Speakers
Chairpersons		<i>Mohamed A. Shadda & Nageh Abo-Dahab</i>	

No.	Time	Code	Presenter & Title
1	10:30-11:00	Invited Speaker PL1	<i>Aldesoky AbdelHaleem, City of Scientific Research and Technology Applications, Egypt</i> Egyptian Biotechnology
2	11:00-11:30	Invited Speaker PL2	<i>Sahar Mohamed Gaied</i>
11:30-12:00			Coffee Break
3	12:00-12:20	PL01	<i>Ahmed Mohamed Abdel-Raheem, Sohag University, Egypt</i> Diversity of Freshwater Ascomycetes in Nile Delta Region (Egypt)
4	12:20-12:40	PL02	<i>Mahmoud Saad-Eldin Bakhet, Sohag University, Egypt</i> Corticolous Myxomycetes in Nile Delta Region (Egypt)
5	12:40-13:00	PL03	<i>Mohd Shukri Baba, National University of Malaysia</i> Endophytic Streptomyces SUK10: Its Molecular Characteristic and Bioactivity against Malaria Parasite
6	13:00-13:20	PL04	<i>Ahmed Mustafa Abdel-hadi, Al-Azhar University, Assiut, Egypt</i> Extracellular Synthesis of Silver Nanoparticles by Marine Derived Fungus Aspergillus Terreus MALEX
13:20-15:00			Lunch
7	15:00-15:20	PL05	<i>Weaam Ebrahim, Mansoura University, Egypt</i> Fungal Endophytes: A Continuing Source of Bioactive Novel Natural Drug Leads
8	15:20-15:40	PL06	<i>Zakaria A. M. Baka, Damietta University, Egypt</i> Antifungal Activities of Some Common Weed Extracts against Phytophthora Infestans, the Causal Agent of Late Blight Disease of Tomato
9	15:40-16:00	PL07	<i>Yousef Sultan, National Research Centre, Egypt</i> Control of Histamine Production by Morganilla Morganii Using Spirullina Platensis
10	16:00-16:20	PL08	<i>Sayed Desouky, Al-Azhar University, Assiut, Egypt</i> Effect of Salinity on Growth and Some Metabolic Activates On Chlorella Minutissima and Chlorella Oocystoides
11	16:20-16:40	PL09	<i>Hany Elsayy, Tanta University, Egypt</i> Increasing the DNA Substrate Specificity of the Ecodam DNA-(Adenine N6)-Methyltransferase by Rational