



ينظم قسم الفيزيكا والرياضيات الهندسية - كلية الهندسة - جامعة طنطا

بالتعاون مع

جمعية الرياضيات المصرية

The First Annual Workshop in Computational and Applied Mathematics

11 May 2013

الورشة السنوية الاولى للرياضيات الحسابية والتطبيقية

2013/ 5 /11

تحت رعاية السادة الأساتذة :

أ.د. عبدالحكيم عبدالخالق خليل

رئيس جامعة طنطا

أ.د. إبراهيم عبدالوهاب سالم

نائب رئيس الجامعة لشؤون الدراسات العليا والبحوث
(قطاع الدراسات العليا بالجامعة)

رئيس شرف الورشة

أ.د. محمد أبو الفتوح عمار

عميد كلية الهندسة

منسق الورشة

أ.د. /ساهر رأفت الخريبى

وكيل الكلية للدراسات العليا والبحوث

منظم الورشة

أ.د. /عبد العزيز أحمد أبو خضرة

رئيس قسم الفيزيكا والرياضيات الهندسية

برنامج الورشة

البيان	الزمن
الاستقبال والتسجيل	10.00 – 9.00
الافتتاح	11.00 – 10.00
محاضرة 1	11.20 – 11.00
محاضرة 2	11.40 – 11.20
استراحة + صلاة الظهر	12.30 – 11.40
محاضرة 3	12.50 – 12.30
محاضرة 4	1.10 – 12.50
جلسة الأبحاث	3.10 – 1.10
الغداء	5.10 – 3.10

جلسات الورشة

أولاً: جلسة المحاضرات الأولى (2013/5/11)

الوقت	عنوان المحاضرة	المحاضرة
11.00 - 11.20	Numerical Linear Algebra Aspects in Control Systems design and Analysis Prof Mohamed Abdel-Latif Ramadan Department of Mathematics Faculty of Science, Menoufia University ramadanmohamed13@yahoo.com	الأولى
11.20 - 11.40	On the solution of nonlinear parabolic partial differential equations Prof Magdi Salah El-Azab Department of Mathematics, Faculty of Engineering Mansoura University ms_elazab@hotmail.com	الثانية
استراحة + صلاة الظهر		

ثانياً: جلسة المحاضرات الثانية (2013/5/11)

الوقت	عنوان المحاضرة	المحاضرة
12.30 - 12.50	Fractional Order Derivative: Definitions, Properties and Applications Prof Ahmed A. El-Sayed Department of Mathematics, Faculty of Science, Alexandria University, amasayed@alexu.edu.eg	الثالثة
12.50 - 1.10	On the Numerical Simulation of Fractional Order Differential Equations Prof Nasser Hassan Sweilam Department of Mathematics, Faculty of Science, Cairo University nsweilam@sci.cu.edu.eg	الرابعة

جلسة الأبحاث الأولى

رئيس الجلسة: ا.د. / محمد عبد اللطيف رمضان

ا.د. / مجدى صلاح العرب صوان

ا.د. / ناصر حسان سويلم

No	Title	Authors	Time
1	Solution of Stochastic Nonlinear PDEs Using Wiener-Hermite Expansion of High Orders	Mohamed A. El-Beltagy Eng. Math. & Physics Dept, Engineering Faculty, Cairo University zbeltagy@hotmail.com	1.10-1.25
2	Numerical Study for the "Improved" Modified Korteweg-De Vries Type Equation	K.R. Raslan, S.H. Youns, H.A. Baghdady Department of Mathematics, Faculty of Science, AL-Azhar University, Nasr City, Egypt hbaghdady63@yahoo.com	1.25-1.40
3	Solution of KdVB Equation via Block Pulse Functions Method	M. S. El-Azab, I. L. El-Kalla and S. A. El Morsy Physics and Engineering Mathematics Department, Faculty of Engineering, Mansoura University Mansoura, Egypt	1.40-1.55
4	Numerical Scheme of Order (2N) for Solving Parabolic Volterra Integro-differential Equations	G. I. El-Baghdady, W. S. El-Beshbeshy, M. S. El-Azab Physics and Engineering Mathematics Department, Faculty of Engineering, Mansoura University Mansoura, Egypt	1.55-2.10
5	Cubic B-spline Collocation Algorithm for the Numerical Solution of Newell Whitehead Segel Type Equations	W. K. Zahra ¹ , W. A. Ouf ² and M. S. El-Azab ³ ¹ Physics and Engineering Mathematics Department, Faculty of Engineering, Tanta Univ., Tanta, Egypt. ^{3,2} Department of Mathematics, Faculty of Engineering, Mansoura Univ., Mansoura, Egypt.	2.10-2.25
6	Numerical Solution for Stationary Casson Viscoplastic Fluid via Monolithic Approach	Mohamed Elborhamy Department of Engineering Mathematics and Physics, Faculty of Engineering, University of Tanta, Egypt	2.25-2.40
7	Long Waves on Liquid-liquid Interface Inside an Inclined Heated Channel	Kadry Zakaria ¹ , Yasser Gamiel ² ¹ Department of Mathematics, Faculty of Science, Tanta University, Egypt. ² Department of Engineering Mathematics and Physics, Faculty of	2.40-2.55

		Engineering, Tanta University, Egypt	
8	Numerical Solution for Non-Stationary Casson Viscoplastic Fluid via Monolithic Approach	Mohamed Elborhamy Physics and Engineering Mathematics Dept., Faculty of Engineering, Tanta University, Egypt	2.55:3.10

جلسة الأبحاث الثانية

رئيس الجلسة: ا.د./ أحمد السيد

ا.د. / بهاء الدين محمد محرم

ا.د. / عرفة عبد الظاهر ناصف

1	Improved Nucleon Properties in the Extended Quark Sigma Model	M. Abu-Shady Department of Mathematics, Faculty of Science, Menoufia University, Egypt	1.10-1.25
2	Dynamic Properties for a General SEIV Epidemic Model	M. M. Hikal Department of Physics and Engineering Mathematics, Faculty of Engineering, Tanta University, Tanta, Egypt. manheikal@yahoo.com	1.25-1.40
3	Application Example of Incomplete Data in Information Systems	Assem Omar Elshenawy Physics and Engineering Mathematics Dept., Faculty of Engineering, Tanta University, Egypt	1.40-1.55
4	Application of Hydrodynamic Modeling in Water Management of a Coastal Shallow Lake	¹ Ahmed El-Adawy*, ² Abdelazeem Negm, ³ Oliver C. Saavedra V, ⁴ Kazuo Nadaoka and ⁵ Ibrahim Abdelmagid El-Shinnawy ^{1,2,3,4} Egypt-Japan University of Science and Technology (E-Just), Energy Resources ^{1,2,3,4} Environmental Engineering Department, P.O.Box 179 New Borg El Arab City, 21934, Alexandria, Egypt. ^{3,4} Tokyo Institute of Technology, Ookayama. Maguruo-ku, Tokyo, Japan ⁵ Coastal Research Institute, 15 El Faraana Street, Elshallalat Alexandria, Egypt Engahmedadawy@yahoo.com, Ahmed.eladawy@ejust.edu.eg , Abdelazim.negm@ejust.edu.eg , Saavedra.o.aa@m.titech.ac.jp Nadaoka@mei.titech.ac.jp , coriegypt@yahoo.com	1.55-2.10

5	Hydrodynamic Modelling of a Shallow Coastal Lake, Lake El-Bardawil, Egypt	M. A. Bek Physics and Engineering Mathematics Dept., Faculty of Engineering, Tanta University, Egypt	2.10-2.25
6	Hall Coefficient Measurement of Semiconductor Thin Film Deposited Using PLD Technique	D.M. Atwa, N.Aboulfotoh ¹ A. Abo El-magd, Y. Badr National Institute of Laser Enhanced Sciences, Cairo University, Giza, Egypt. ¹ Department of Engineering Physics and Mathematics, Faculty of Engineering, Tanta University, Tanta.	2.25-2.40
7	Topology on nervous system	A. A. Kadra, M. Shokry, A. Elshenawy and ¹ R. Emad Physics and Engineering Mathematics department, Faculty of Engineering, Tanta University, Egypt, ¹ Physics and Engineering Mathematics department, Higher Institute of engineering and technology in Damietta	2.55-2.40
8	Novel Indirect Solar Dryer Design to Dry Medical Plants using PCM as Storage Medium	S M Shalaby and M A Bek Physics and Engineering Mathematics Dept., Faculty of Engineering, Tanta University, Egypt	2.55:3.10

الغداء	5.10 –3.10
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