



البحوث العلمية



١. قسم هندسة الغزل والنسيج:

البحوث العلمية :

- عدد البحوث العلمية التي نشرت خلال العام السابق (٣)
- نسبة البحوث لعدد اعضاء هيئة التدريس بالقسم (٢٧%)
- نسبة البحوث المنشورة في مجالات عالمية خارجية (٣٣%)
- الأهمية التطبيقية للأبحاث المنفذة (تتعدد الاغراض الخاصة بالبحوث في تلك التي لها تطبيقات صناعية في مجال الغزل والنسيج إلى الاستخدامات الصناعية للمواد الجديدة والنانومترية في المجالات المختلفة).
- مصادر تمويل البحث العلمى (شخصى)
- المجالات العامة التي غطتها هذه البحوث (هندسة الغزل والنسيج ، هندسة المواد ، النانوتكنولوجى)

٢. قسم الهندسة البحرية وعمارة السفن:

البحوث العلمية:

- عدد البحوث العلمية التي نشرت خلال العام السابق ٢٨ بحث
- نسبة البحوث لعدد أعضاء هيئة التدريس ١:٢
- نسبة البحوث المنشورة في مجالات علمية خارجية ١٢:٣
- الأهمية التطبيقية للأبحاث المنفذة:
 - ١- الطاقة المتجددة واستخداماتها
 - ٢- تقدير عدد ساعات إنتاج السفن
 - ٣- تحسين وضع التكلفة التنافسية لترسانات بناء السفن
 - ٤- تطوير صناعة بناء وإصلاح السفن
 - ٥- المجالات المختلفة للهندسة البحرية
- مصادر تمويل البحث العلمى
- المجالات العامة التي غطتها هذه البحوث:
مجالات الهندسة البحرية وعمارة السفن



أسماء البحوث:

1. Ahmad M. Rashwan and, Ahmad Naguib, "Toward Improving the Cost Competitive Position (CCP) for Shipbuilding Yards – Part I: Impact of Technology Changes".
2. Ahmad M. Rashwan and, Ahmad Naguib, "Toward Improving the Cost Competitive Position (CCP) for Shipbuilding Yards – Part II: Case Study".
3. Y. A. Abdel-Nasser and Ahmad M. Rashwan , "New simplified equation for predicting ultimate strength of damaged tubular members".
4. M. Morsy El- Gohary" Future of Hydrogen in Marine Applications as Green Energy".
5. M. Morsy El- Gohary "Design of hydrogen in Marine Gas Turbine".
6. M. Morsy El- Gohary "Finite Element Analysis of Marine Diesel Engine Components".
7. Prof. H. W. Leheta, M. Morsy El- Gohary, Eng. M. El-Said, Environmental & Economical Study for Using Natural Gas Cooling"
8. Kotb, M., A., Characteristics of Ship Generated Wave Field in Sub, Transient and Super Critical Regions.
9. Kotb, M., A., Banawan, A. A., and Abdel Naby, M., " Use of PIANC & IAPH Method to Determine the Suitable Dimensions of the First Class Waterways in Egypt"
10. Adel A. Banawan and Yasser M. Ahmed "Use of Computational Fluid Dynamics (C.F.D.) fo the Calculation of Ship Resistance, and it Variation with the Ship Hull Form Parameters.
11. Adel A. Banawan "Technical and Financial Valuation of Nile Passenger Ships".
12. Adel A. Banawan, Mohamed S. Ebieda "Use of CFD for the Predication of the of the Interaction between Ships in Restricted Waters"
13. Y. Ahmed, C. Ciortan e C. Guedes Soares, "Determinação da resistência ao avanço de um casco através da dinâmica dos fluidos computacional",Inovação e Desenvolvimento nas Actividades Marítimas,C. Guedes Soares e V. Gonçalves de Brito (Eds.),Edições Salamandra, Lisboa, Portugal, 2006.



14. Adel A. Banawan, Yasser M. Ahmed, “Use of computational fluid dynamics (C.F.D.) for the calculation of ship resistance, and its variation with the ship hull form parameters”, Alexandria Engineering Journal, Vol. 45, (No. 1), pp. 47-59, 2006.

Y. Ahmed, C. Ciortan, C. Guedes Soares, “Free Surface Flow Simulation around a Wigley Hull Using a Slightly Compressible Flow Formulation and a Two-Phase Fluid Approach”, Proceedings Eighth International Conference on Marine Sciences and Technologies ,Varna, Bulgaria, September 2006.

C. Ciortan, Y. Ahmed, C. Guedes Soares, “A Study of Boundary Layers for Detached Flows”, Proceedings Eighth International Conference on Marine Sciences and Technologies ,Varna, Bulgaria, September 2006.

Tarek Elsayed, Amr Hassan, Yasser Ahmed, Mohamed Darwish, "A minimum cost design approach of an ROV for underwater inspection", Underwater Intervention International Conference, Tampa Florida USA, 2006.



٣. قسم هندسة الحاسب والنظم:

البحوث العلمية:

- 1- Jeewan Jyoti, Samy El-Tawab, M. Nazih El-Derini, Emad Aboelela, and Hussein Aly; "Improving Quality of Service for Voice-Over-IP Using Routing Diversity", The 23rd Biennial Symposium on Communications, Ontario, Canada, pp. 364-367, May 29th–June 1st, 2006.
- 1- Jeewan Jyoti, M. Nazih El-Derini, Emad Aboelela, and Hussein Aly; "Dynamic Load Balancing Through Real-time Transport feed back control for VOIP QOS." Bibl. Special Issue on "Multidisciplinary problems, Models and Feed back control Design"(2006) Journal submitted Editors of collection:
 - a. Pushkin Kachron, Virginia Tech., USA.
 - b. Kaan Ozaby, Rutgers University USA.
 - c. Angula S. Krishen, Virginia Tech., USAInternational Journal of Computer Applications in Technology (IJCAT)
- 2- Samy El-Tawab, M. Nazih El-Derini, Hussein Aly, Emad Aboelela, "Simulation of redundant traffic encoding in VOIP systems" accepted in Alexandria Engineering Journal, Vol.45 (2006) No.5.
- 3- Amin M. El-Kustaban, Ahmed H. El-Mahdy, and Ossama M. Ismail. A CMP with Transactional Memory: Design and Implementation Using FPGA Technology. In Proceedings of the International MultiConference of Engineers and Computer Scientists 2007, IMECS '07, Hong Kong, China, 2007.
- 4- Ahmed Ghanem, Ahmed El-Mahdy, and Ibrahim Abel Salam. A Cycle-Accurate Micro-Architecture Simulation Framework for Embedded Processors, ICCES-06, IEEE, Cairo, Egypt, 2006.



٤. قسم هندسة الري والهيدروليكا:

البحوث العلمية :

- 1-Mohamed Abd El-Razek and Adel A .S .Salem , "An experimental Study of Gravity Dam With Drainage Gallery ", 6 th International Conference on Role of Engineering Towards a Better Environment , (RETBE) , Alexandria , Egypt , 16 – 18 December , 2006 .
- 2- Abbas H., Rabiea I. Nasr , and Seif H. "Study of Waste Stabilization Pond Geometry for the Wastewater Treatment Efficiency" , Ecological Engineering , The Journal of Ecosystem Restoration , Volume 28, November 2006 , PP.25-34.
- 3-Abbas H., Rabiea I. Nasr , and Seif H. "Hydraulic Retention Time Effect On Facultative Waste Stabilization Ponds Efficiency " , Role of Engineering Towards a Better Environment 6th International Conference , Alexandria, Egypt, Dec.16-18, 2006.
- 4-Moghazi, H.M. Nagy and G.Y. Lazem, Estimation of Local Scour Depths Around Abutments Using Artifical Neural Network Model, Alexandria Engg. Journal, Vol. 45, No.6, pp.721 -738, Nov.2006, Egypt.
- 5-Moghazi, H., Awod, H. and Fayad, A., Runoff Prediction for Egyptian North –West Coast Zone Using Tank Model And Genetic Algorithms, 6th Int. Conf. Role of Engineering Towards a Better Environment, Dec.16-18, 2006 Hilton Green Blaza, Alexo, Egypt.

٥. قسم هندسة الإنتاج:

البحوث العلمية:

جهة النشر	عنوان البحث	الاسم
Taylor & Francis - CRC Press , Florida , USA	Fundamentals of Machining Processes (مرجع علمي)	أ.د. حسن عبد الجواد الحوفى
المؤتمر الدولي للتصنيع الحديث وإدارة التكنولوجيا مومباى – الهند	الضبط الكهروكيميائى للثقوب (ورقة بحثية)	أ.د. عصام سليمان + أ.د. حسن الحوفى
مجلة كلية الهندسة (قيد التحكم)	نمذجة ودراسة عملية لضبط الثقوب بالقطع	أ.د. عصام سليمان + أ.د. حسن الحوفى



	الكهروكيميائي (ورقة بحثية)	
مجلة كلية الهندسة (مقبول للنشر)	نموذج محاكاة لضبط الثقوب باستخدام القطع الكهروكيميائي المدارى (ورقة بحثية)	أ.د. عصام سليمان
مدينة كيرنز - استراليا المؤتمر الدولي الرابع عشر للصوتيات والإهتزازات	استهلاك الطاقة في الماكينات وعلاقته باهتزازاتها (ورقة بحثية)	أ.د. أحمد الخطيب
مدينة تايبيه - تايوان المؤتمر السادس والثلاثون لتطبيقات الحاسب في الهندسة الصناعية	نموذج متكامل لتخطيط الإنتاج والتحكم في المخزون	أ.د. عمرو الطويل
جامعة وست - السويد	إتفاقية التعاون العلمي	أ.د. محمد جابر أبو على



٦. قسم الهندسة الميكانيكية:

البحوث العلمية :

Simulation in gasoline engine using EGR

تطبيقات عملية في تقليل الإنعاثات آلات الاحتراق

٧. قسم الهندسة الكهربائية:

البحوث العلمية المنشورة :-

- 1-Hossam – Eldin , A.A. El- Refaie', H. and Gaballa, G.K “The use of UPFC for Improvement of FACTS Stability”, MEPCON 2006, pp.461-467 vol. II , dec. 2006 .
- 2-Hossam – Eldin , A.A , yosef , K. and Karawia , H , "Effects of Emf from House Appliances on Hwman Bodies , Retbe 06 , Dec. 2006 .
- 3-Hossam – Eldin , A.A and Hasan , R.M , Shudy and Economic Assessment of The Digital Energy Meter with Harmoni su , ibid .
- 4-Hossam – Eldin , A.A , Abdalla , M . A and Abbas , A , “ Investhigation of HVDC Link Under Constant Power Control “ MEPCON 06 , Dec . 2006 , Vol . II , pp . 447 – 451 .
- 5-Hossam – Eldin , A . A . and Husien , M . “ Design and Assessment of Lightning Protection System in Petroleum Structures " , ibid , pp . 468-475 .
- 6-Hossam – Eldin , A.A. and Omran , E . " The Collection Volume method For Lighting Protection of Marine Ships "MEPCON 06 , Vol . I , pp . 112 – 116
- 7-Hossam – Eldin , A.A. and El hadary , S . " Modeling and Simulation of WT in Dielectric Samples " , ibid , pp . 509 – 516
- 8-Hossam – Eldin , A.A. Yosef , K . and Karawia , H . , " Investigations of Induced Currents in Human Bodies Due to Exposure to EMF From LV Appliances " , ibid , pp . 583 – 527 .
- 9-Hossam – Eldin , A.A. and Hasan , R . M , " Study of The Effects of Harmonics on Measurements of The Energy Meters , ibid , pp . 547 – 550 .
- 10-Hossam – Eldin , A.A. and El – Refaie , H " The UPFC to Improve the Characteristics of FACTS " , Accepted J . Electric power Components and Systems , April 2007
- 11-Hossam – Eldin , A.A. and Aboul Fotoh , T . " Ideal Model for Intelligent Power System with Harmonics " , IEEE Trans , on power DELIVERY , ACCEPTED for 2007 .



- 12-Hossam – Eldin , A.A. and Omran , E . , " Lightning Protection For Marine Ships and Structures , " IEEE . ISH , paper no .HV – 15 Slovenia , Aug 2007
- 13-Hossam – Eldin , A.A. and El hadary , S . , " The Use of FE in the Simulation of Water Treeing in Dielectrics " IEEE , ISH , paper no 52 , Slovenia , Aug 2007 .
- 14-Hossam – Eldin , A.A. , Abdulla , M . A and abas , A . " HVDC Link Under Constant Power Control " , IEEE , ISH , Slovenia , paper no 50 , Aug 2007 .
- 15-Hossam – Eldin , A.A. and Omran , E . " Maritime structures and Ships Lightning Protection " , IEEE , EIC – EME , Nashville , TN , U. S . A , Oct 2007
- 16-Hossam – Eldin , A.A. , Heggi , N . M and Selim , F . " A Novel Lightning Protection Scheme For H . V Transmission System " , Submitted to IEEE Trans . on Power Delivery , May 2007
- 17-Hossam – Eldin , A.A. and karawia , H , " Modeling and simulation of the Effects of EMF at Power Frequency on Living Organisms " Journal of Physics D , Appl . Physc . , Vol . 40 , pp 3305 – 3312 , 2007 (Under Publication) .
- 18-Hossam – Eldin , A.A. , Abdulla , M . A and Abbas , A . , " Constant Power Control of a HVDC Link at Elevated Voltages " , IEEE Trans . on Industrial Appl . , (Under Publication) , 2007 .
- 19-Hossam – Eldin , A.A. and Omran , E . " The Collection Volume Method for Lightning Protection of Marine Ships and Maritime Structures " . J . of Electrostatics , Vol . 65 , 2007 (to be published) .

Papers Published

1. Ayman Elnashar, Said Elnoubi, and Hamdi El-Mikati, "Further Study on Robust Besmforming with Optimum Diagonal Loading," IEEE Transactions on Antennas and Propagation, December 2006, pp 3647-3658.
2. M. Habashy, S. Elnoubi, and K. Elshennawy, "BER Closed Form for Generalized MC-DS_CDMA Using Q-Function Approximation, 24th National Radio Science Conference, 2005. NRSC 2007, March 13-15, 2007, pp. C28 1-8.
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4. 3. Abdel Awal Hashem, S. Elnoubi, and H Elmikati, " Error Rate Performance of MC DS-CDMA System with Multiple Receive Antennas in Nakagami-m Fading Channel, 24th National Radio Science Conference, 2005. NRSC 2007, March13-15, 2007, pp. C33 1-8.
5. 4.W. Mesbah, S. Elnoubi, and M. Lotfy, "Reduced Complexity Blind Adaptive MultiUser Detection, 24th National Radio Science Conference, 2005. NRSC 2007, March13-15, 2007, pp. C2 1-8.
6. Thesis supervised
7. CDMA and PRMA Analytical Models for Multimedia Mobile Communication, Master thesis by Mohammed Shetawy, Alexandria University, May 2007.

٨. قسم الهندسة الإنشائية:

1. Behavior of strip footings resting on sand reinforced with tire chips of the Geo – frontiers 2005 congress. Austin , texas PP130-142 (2005) Fathi M. Abdrabbo et. al.
2. Study of the infiltration of water through collapsable soil. Unstaturated soil, 2006, Arizona, USA, pp 1049-1060 Fathi M. Abdrabbo et. al.
3. On modeling isolated footings on reinforced sand, Atlanta congress, 2006 Fathi M. Abdrabbo et. al.
4. Effects of imperfections in the construction procedure of auger cast in place pile on pile response. The tenth east Asia- pacific conference on structural engineering of construction EASEC-10, Thailand, 2006 Fathi M. Abdrabbo et. al.
5. Seismic Performance Limits of Strengthened R.C Buildings in international Building Codes 10 th east Asia-Pacific Conference on Structural Engineering and Construction (EASEC – 10) 3-5 August, 2006 Bangkok, Thailand (Laila El-Hifnawy , Amin S.Aly , Esam A.Elkordi and A. Zenham)



6. Seismic Performance Evaluation of deteriorated Strengthened R.C Buildings Alexandria Eng. Journal, Alexandria Egypt (Laila El-Hifnawy, Amin S.Aly , Esam A.Elkordi and A. Zenham)
7. Deterioration of Strengthened R.C Buildings Under Seismic Loads
ندوة إدارة الكوارث وسلامة المباني فى الدول العربية الرياض ١٣ - ١٥
يناير ٢٠٠٨ بالاشتراك مع أ.د. أمين صالح على، أ.د. عصام الكردى ، د. أمين زينهم .
8. Finite Element Analysis of Axially Loaded Concrete Filled Steel Box Columns Proc. Eleventh International Colloquium on Structural And Geotech .Eng. , Vol, Paper No . E03SR43, Ain Shams Univ., Cairo, EGYPT, 2005 (E.A. Mashaly, M.H. Shalaby, S.A. Allam, El-Hewity, and M.S. Ibrahim).
9. A Generalized Translational-Rotational Tuned Mass Damper (T-RTMD) System for Passive Control of Vibrations in Structures Fifth International Conference on Earthquake Resistant Engineering, Skiathos, Greece, Vol.V, PP.661-674, 2005. (E.A. Mashaly, M.H. El-Katt, A.I. Al-Janabi, and I.M. Abubakar)
10. Recommended Seismic Code Provisions For Columns of RC, Composite, and Steel Regular Buildings (Mid-and High-Rise) the Tenth East Asia-Pacific Conference on Structural Engineering and Construction (EASEC-10) August 3-5, 2006 Bangkok, Conference on Structural Engineering and Construction 2006 Bangkok Thailand (Mohamad T.El-Katt, Essam A.ElKordi and Mohamad A.Ahmed)
11. Seismic Behavior of RC, Composite, and Steel Mid-Rise and High-Rise Building 11th Int. Call. On Structural and Geot. Eng., May 17-19 2005 Cairo, EGYPT (Prof.Dr. Mohamad T. El-Katt, Prof.Dr. Essam A.ElKordi and Eng. Mohamad A.Ahmed)



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12. On modeling isolated footings on reinforced sand On modeling isolated footings on reinforced sand Fathi M. Abdrabbo, Hassan Abouseeda, Khaled E. Gaaver, and Amr Z. Elwakil
13. Behavior of laterally loaded piles in cohesionless soils Geo-Congress International Conference, Atlanta, USA, February 2006. Fathi M. Abdrabbo, Hassan Abouseeda, , and Khaled E. Gaaver.
14. Behavior of laterally loaded piles in cohesionless soils The Tenth East Asia-Pacific Conference on Structural Engineering and Construction (EASEC-10)- August 2006