

Curriculum Vitae

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Objective

To develop research work in the bioinformatics area and to experience developing curricula and quality assurance in education.

Education

- Recipient of academic scholarship from Marymount University, Virginia, USA, for
- 1988-1989, 1989-1990.
- Dean's List: Spring 1990.
- B. Sc. in computer science, Marymount University, Virginia, USA. Graduated in 1990, with a GPA of 3.29/4.0.
- M. Sc. in computational science, Faculty of Science, Cairo University, Egypt. Graduated August 1996. Thesis title is "Neural Network Pattern Recognizer: Recognition of Printed Arabic Text." Research focused on a new three-level approach for segmentation of printed Arabic text and a neural tree network to recognize segmented Arabic characters.
- Ph.D. in information systems, Faculty of Computer and Information Sciences, Ain Shams University, Cairo, Egypt. Graduated in April 2004. Thesis title is "A Novel Approach to Mining Biosequence Data." Research focused on bioinformatics research, where a data mining hybrid approach is developed, which is applied to protein data. Associative classification rules are also developed to predict Gene Ontology Molecular Function.
- An online tutor Diploma, Aalborg University, July 2006.

Skills

• **Bioinformatics Experience:**

- **Microarray Databases:** GEO.
- **Protein databases:** SwissProt, PIR, PRINTS, BLOCKS, and Pfam.
- **Bioinformatics Courses Studied:** Bioinformatics, Protein Structure, University of Connecticut, USA, Fall 2001 and Spring 2002.

• **Teaching Courses:**

- **Undergraduate courses:** Database systems, information systems, information engineering, management information systems, office automation, software engineering, web information systems, advanced topics in information systems, and system analysis and design.
- **Graduate Courses:** Bioinformatics I, Bioinformatics II, and advanced topics in database systems.

- Design online courses via Moodle, including Course activities and course Performa. A software engineering online course was developed.

Supervised Projects

- System Analyst, National Water and Savage Drain, November 2003-May 2004. Duties included analyzing the current data in order to make a full automation for document flow process at the National Water and Savage Drain, Cairo, Egypt.
- Project Assistant Manager, Partners/Internet Service Bar Project, funded from Microsoft Egypt, Faculty of Computer and Information Sciences, Ain Shams University, Cairo, Egypt, March-August 2004.
- Academic Staff, Mediterranean Virtual University, funded by the European Union, Faculty of Computer and Information Sciences, Ain Shams University, Cairo, Egypt, July 2004-September 2006. This project is to establish a Mediterranean Virtual University consisting of 11 partners, and the main coordinator is University of Strathclyde, Glasgow.
- Project Implementation Team Member, Quality Assurance for Higher Education, Faculty of Computer and Information Sciences, Ain Shams University, Cairo, Egypt, September 2004- September 2006.
- Supervisor, DNA information system Graduation Project, Faculty of Computer and Information Sciences, Ain Shams University, September 2004- June 2005.
- Supervisor, Clustering Gene Expression Tool Graduation Project, Faculty of Computer and Information Sciences, Ain Shams University, September 2005-July 2006.
- Supervisor, A Web-based Protein Analysis Tool Graduation Project, Faculty of Computer and Information, Assiut University, 2007 (Funded by ITIDA).
- Supervisor, A Web-based Species Analysis Tool Graduation Project, Faculty of Computer and Information, Assiut University, 2007 (Funded by ITIDA).
- Supervisor, Developing and analyzing a social network for Bioinformatics Graduation Project, Faculty of Computer and Information, Assiut University, 2007 (Funded by ITIDA).
- Supervisor, Developing a social network for high blood pressure patients Graduation Project, Faculty of Computer and Information, Assiut University, 2007 (Funded by ITIDA).
- Supervisor, Evaluating Quality of Online Education Graduation Project, Faculty of Computer and Information, Assiut University, 2007 (Funded by ITIDA).

Recent Publications

- Hisham Shishiny, Taysir H. Soliman, Ibrahim Emam, "Mining Drug Targets: The Challenges and A Proposed Framework," 11th IEEE Symposium on Computers and Communications, Italy, June 2006.
- M. Essam Khalifa, Taysir H. Soliman, Huda Amin Maghawry, "Hierarchical Overlapped Divisive Algorithm (HODA): Analysis and Implementation," 4th International Conference on Computer Science and Its Applications, (ISCCA 2006), June 2006, San Diego, USA.
- Heba Khaled, Hossam Faheem, Taysir H. Soliman, and Said Ghoneimy, "A Design of Parallel Architecture for Solving Exact Matching Problem on DNA

- Molecules,” the 44th Rocky Mountain Bioengineering Symposium, April 13-18, 2007, Denver, CO, USA.
- M. Essam Khalifa, Taysir H. Soliman, Huda Amin Maghawry, “Validating HODA with Classical Clustering Techniques Using Microarray Gene Expression,” The 2007 International Conference on Data Mining (DMIN'07), June 25-28, 2007, USA.
 - Marwa M Hussein, Taysir H. A. Soliman, Omar H. Karam, ” GP-Growth: a New algorithm for Mining Frequent Embedded Subtrees,” 12th IEEE Symposium on Computers and Communications, 2-4 July 2007, Portugal.
 - Marwa M Hussein, Taysir H. A. Soliman, Omar H. Karam, ”Mining Frequent Induced Subtrees with Application to Phylogenetic Trees,” IADIS International Conference on Data Mining, July 5-7, 2007, Portugal.
 - Nivine A. Helal, Taysir H. Soliman, and Omar H. Karam, “Analyzing Efficient Embedding List Structures in Subgraph Mining,” IADIS International Conference on Data Mining, July 5-7, 2007, Portugal.
 - M. Essam Khalifa, Taysir H. Soliman, and Ayat Ali, "Reducing Protein-Protein Interaction Features via Scalable Approaches," International Journal of Intelligent Computing and Information Sciences, Faculty of Computer and Information Sciences, Ain Shams University, Vol. 7, Number 2, 2007.
 - Taysir Hassan A. Soliman, "Evaluation of Quality of Online Education via Frequent Pattern Mining," E-learning Excellence in the Middle East: Design, Define, and Deliver, UAE, January 2008
 - Faheem Maghraby, Hossam M. Faheem, Taysir Hassan A. Soliman, and Zaki Taha, "A Multiagent Framework for Integrating Biological Data," International Journal of Intelligent Information Technologies, IGI Publishing, Vol. 4, No. 2, 2008.
 - Hisham El-Shishiny, Taysir Hassan A. Soliman, and M. El-Asmar, "Mining Drug Targets based on Microarray Experiments, IEEE Symposium on Computers and Communications," ISCC'08, Morocco.
 - T. H. Soliman, "BIOSNI: A Semantic Network Integration Approach for Biological Data," 4th International Biomedical Engineering Conference, Cairo, Egypt, 18-20, December 18-20, 2008.
 - Taysir Soliman, "Online Teaching/Staff Maturity Model," 7th WSEAS Conference on E-Activities, Cairo, Egypt, December 29-31, 2008.

Experience

- Assistant Lecturer, Information Systems Department, Faculty of Computer and Information Sciences, Ain Shams University, Cairo, Egypt, November 1996-December 2003.
- Traveled to the University of Connecticut on a channel basis in order to complete my research at the Artificial Intelligence Lab, January 2001-January 2003.
- Lecturer, Information Systems Department, Faculty of Computer and Information Sciences, Ain Shams University, Cairo, December 2003- January 2007.
- Academic Staff, Mediterranean Virtual University, funded by the European Union, Faculty of Computer and Information Sciences, Ain Shams University,

Cairo, Egypt, July 2004-September 2006. This project is to establish a Mediterranean Virtual University consisting of 11 partners, and the main coordinator is University of Strathclyde, Glasgow. Duties include designing online courses, designing course performance, and evaluating the quality of other partners' course performance and online courses as well.

- Vice President for the Quality Assurance and Accreditation Unit, Faculty of Computer and Information Sciences, Ain Shams University, Cairo, April 2006-September 2006
- Visiting Scientist, IBM Center of Advanced Research Studies, Cairo Division, May 2005-May 2007.
- Lecturer, Information Systems Department, Faculty of Computer and Information Sciences, Assiut University, February 2007- May 31, 2009.
- Member of the Quality Assurance and Accreditation Unit, Faculty of Computer and Information, Assiut, University, September 2007-present.
- Associate professor, Information Systems Department, Faculty of Computer and Information Sciences, Assiut University, June 1, 2009-present.
- Supervisor of Information Systems Department, Faculty of Computer and Information Sciences, Assiut University, October 2009-present.

Activities

- Participant in First Aalborg University MVU project workshop, Aalborg, Denmark, December 12-19, 2004.
- Participant in MVU meeting in Cairo, Ain Shams University, January 31-February 2, 2005.
- Participant in E-tutor diploma face-to-face workshop, Cyprus, June 27-28, 2005.
- A Special Session Organizer on Computational Biology and an Organizer in the Organizing Committee, Second International Conference on Intelligent Computing and Information Systems, Faculty of Computer and Information Sciences, Ain Shams University, March 5-7, 2005.
- A participant on the Molecular Biology and Biotechnology Workshop, Genetic Engineering and Biotechnology Research Center, Dec. 11-15, 2005.
- A participant on the Bioinformatics session, Second International Conference on Scientific Research and Applications, Marriott, Cairo, Dec. 19, 2005.
- A reviewer in the IASTED international committee for computer science and applications, August 2005-present.
- An organizer of the Third Tutor Workshop, April 26-27, 2006, Ain Shams University, Cairo.
- A presenter, 6th International Conference on Scientific Research, women, and development in Upper Egypt (Arab Women and Health), Assiut University, April 17-19, 2007.
- A poster presenter, Biovision Alexandria, Alexandria Library, April 13-17, 2008.
- Leader of the Student Scientific Committee of the Student Union, Faculty of Computer and Information, Assiut University, September 2008-present.

References

- Available Upon Request