



Associate Prof. Dr.: Hesham Aboelsoud Mohamed Youssef

The Higher Institute of Computer Science and Information Systems (Fifth Settlement)
Computer Science Department

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QUALIFICATIONS

Degree	Discipline	Institution	Year
B.Sc.	Faculty of Engineering	Military Technical Collage	1993
M.Sc.	Faculty of Engineering	Military Technical Collage	2000
Ph.D.	Faculty of Engineering	Military Technical Collage	2006

POSITIONS

Associate Professor, Computer Science Department	The Higher Institute of Computer Science and Information Systems (Fifth Settlement)	September 2024 – Now
Head of Communication and Electronics Engineering Department	Bellbis High Institute for Engineering	October 2022 – September 2024
Associate Professor, Electrical Engineering Department	Modern University for Technology and Information	October 2019 – October 2022
Faculty Member, Professor and Head of Computer Science Group, Computer Engineering Department	Military Technical Collage	January 2010 – July 2019

FIELDS OF INTEREST

⊕ Digital Image Processing	⊕ Computer System Security and Applications
⊕ Artificial Intelligence	⊕ Machine Learning & Data Mining
⊕ Database System	⊕ Data Hiding Techniques
⊕ Telemedicine using web based application.	⊕ Data Structure and Algorithms

SELECTED PUBLICATIONS

- ⊕ H. Aboelsoud M., "Enforcement of Usage Control Model in Linux NFS Server" International journal of Scientific & Technology Research (IJSTR) Volume 10 – Issue 4, April 2021 Edition.
- ⊕ M. R. Abdellah, H. Aboelsoud M., K. S. Badran, M. B. Senousy "Integrated association rules complete hiding algorithms" Advances of electrical and electronic engineering journal (AEEE), Vol. 15, iss. 2, pp.



- 192-202, 2017. **2023** – Hany AbdElghfar, Abdelmoty Ahmed, Ali Alani, Hammam AbdElaal, M. R. Abdallah, H. Aboelsoud M., K. S. Badran, M. B. Senousy " Association rules weighted complete hiding algorithms " *International journal of computer science and applications (IJCSA)*, 2017.
- ✦ M. R. Abdallah, H. Aboelsoud M., K. S. Badran, M. B. Senousy " Privacy preserving association rules hiding " *International journal of computer applications (IJCA)*, pp. 11-17, USA, 2016.
- ✦ Mohamed Adel Sheta, Mohamed Zaki, Kamel Abd Elsalam Elhadad, H. Aboelsoud M., " Performance and maintainability evaluation of anti-spyware system " *International journal of computer applications (IJCA)*, Vol. 150, No. 4, pp. 31-39, USA, 2016.
- ✦ H. Aboelsoud M., "An Extended Usage Control Model for Relational Databases" *The sixth IEEE international conference on instrumentation and measurement computer communication and control (IMCCC 2016)*, China, 2016.
- ✦ Mohamed Adel Sheta, Mohamed Zaki, Kamel Abd Elsalam Elhadad, H. Aboelsoud M., " Anti-spyware security patterns " *The sixth IEEE international conference on instrumentation and measurement computer communication and control (IMCCC 2016)*, China, 2016.
- ✦ Mohamed Adel Sheta, Mohamed Zaki, Kamel Abd Elsalam Elhadad, H. Aboelsoud M., " Data mining-based anti-spyware system using a hybrid of common feature-based extraction and frequency-based feature extraction approaches " *International journal of applied engineering research (IJAER)*, Vol. 10, No. 24, pp. 45597-45605, India, 2015.
- ✦ Mohamed Adel Sheta, Mohamed Zaki, Kamel Abd Elsalam Elhadad, H. Aboelsoud M., " Design and implementation of anti spyware system using design patterns " *International journal of computer applications (IJCA)*, Vol. 123, No. 2, pp. 9-13, USA, 2015.
- ✦ Mohamed Adel Sheta, Mohamed Zaki, Kamel Abd Elsalam Elhadad, H. Aboelsoud M., " Developing anti spyware system using design patterns " *International conference on aerospace science and aviation technology (ASAT)*, Egypt, 2015.
- ✦ Mohamed A. Ismail, H. Aboelsoud M., Mohamed B. Senousy "An Investigation into Access Control in Various Types of Operating Systems" *International Journal of Computer Applications (0975 – 8887) Volume 98– No.10, July 2014*.
- ✦ H. Aboelsoud M., "Directional Derivative in Edge Detection" *International Journal of Scientific & Engineering Research*, Volume 5, Issue 3, pp.2105-2111, March-2014.
- ✦ H. Aboelsoud M., "Edge Detection Using Directional Filtering", *International Journal of Engineering Research and Applications ISSN: 2248-9622*, Vol. 4, Issue 4 (Version 4), pp.112-115, April 2014.
- ✦ W.K. Shalish, A.Z. Ghalwash, H.M. El-Deeb, G.I. Salama, H. Aboelsoud M., K. Badran " Database Performance Sensitivity for Malicious Transactions Detection Mechanisms " *8th International Conference on Electrical Engineering ICEENG 2011*.
- ✦ Wasim Khalil Shalish , G. I. Salama , H. Aboelsoud M. "Performance Evaluation of the Detection Mechanisms for Malicious Transactions in DBMS " *7th International Conference on Electrical Engineering ICEENG 2010*.
- ✦ H. Aboelsoud M., Mahmoud E. Gadalla, Mohamed Ali Gomaa, and Abeer S. Desuky, "Image-Based Stenography Using Wavelet Transform" *Journal of Al Azhar University Engineering Sector Vol. 3 No. 8, July 2008, 677-685*.
- ✦ H. Aboelsoud M., Abdallah S. Ahmed, Mahmoud E. Gadalla, and Emam S. Ragab, "REGION OF INTEREST-BASED MEDICAL IMAGE COMPRESSION, WITH APPLICATION TO MRI BRAIN IMAGES", *5th International Conference on Electrical Engineering ICEENG 2006*.
- ✦ H. Aboelsoud M., Abdallah S. Ahmed, Mahmoud E. Gadalla, and Emam S. Ragab, "EDGE DETECTION USING DIRECTIONAL DERIVATIVES" *4th International Conference on Electrical Engineering ICEENG 2004*.
- ✦ H. Aboelsoud M., Abdallah S. Ahmed, Mahmoud E. Gadalla, and Emam S. Ragab, "EVALUATION OF LOSSLESS COMPRESSION METHODS FOR GRAY SCALE MEDICAL IMAGES" *4th International Conference on Electrical Engineering ICEENG 2004*.



- ⊕ M. Shokr, M. Shaarawy Ibrahim, and H. Aboelsoud M., "A CARDIOLOGY APPLICATION USING AN ARTIFICIAL NEURAL NETWORK MODEL", 2nd International Conference on Electrical Engineering ICEENG, 23-25 Nov. 1999.

TECHNICAL REPORTS

- ⊕ "Association rules weighted complete hiding algorithms, Book." Publishing house: LAP LAMBERT Academic Publishing Germany, ISBN: 978-620-2-05130-9, September 2017.

PROFESSIONAL QUALIFICATIONS

- ⊕ October 2010 – February 2011, Advanced Course on Quality Control - Quality Control and Assurance Agency for the Egyptian Armed Forces.
- ⊕ 26-28 March 2011, Training Course on Hygiene & Sanitation for Food Processors – TOTAL (O.S.H.E Systems).
- ⊕ 8-10 April 2016, 1st Course on Research Methodology – Military Medical Academy.

COMPLETED PHD THESIS SUPERVISION

- ⊕ Database Security Protection via Inference Detection, 2017
- ⊕ Developing anti Spyware Programs, 2016
- ⊕ Image Based Steganography, 2010

COMPLETED MASTER THESIS SUPERVISION

- ⊕ Applying Computer Vision Techniques in 3D Object Reconstruction, 2017
- ⊕ Applied Security in Open-Source Operating Systems (Linux), 2016
- ⊕ Database Performance Sensitivity for Malicious Transactions Detection, 2010
- ⊕ Data Hiding Techniques for Information Security, 2009

REVIEWER OF INFORMATION SECURITY FOR SCIENTIFIC JOURNALS

- ⊕ IEEE Transactions on Dependable and Secure Computing (TDSC)
- ⊕ Journal of Network and Computer Applications (JNCA) Elsevier

LEAD GUEST EDITOR FOR SCIENTIFIC JOURNAL

- ⊕ American Journal of Science, Engineering, and Technology (AJSET) (ISSN Print: 25788345 ISSN Online: 25788353)