

Full Name: Ibrahim Fathy Moawad

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Research (past and current)

PUBLICATIONS

Refereed International Journals

Dina Sharaf-el A Deen, **I. F. Moawad**, M E Khalifa, "A New Hybrid Case-Based Reasoning Approach for Medical Diagnosis Systems", Journal of Medical Systems, Springer, Vol. 38, Issue 2, pp. 1-11, January 2014.

Dina Sharaf-el A Deen, **I. F. Moawad**, M E Khalifa, "A Breast Cancer Diagnosis System using Hybrid Case-based Approach", International Journal of Computer Applications, Vol. 72, Issue 23, pp. 14-20, June 2013.

I. F. Moawad, "Learning Style Deriving Approach to Personalize E-Learning Material Resources", International Journal of Computer Science Issues, IJCSI, Vol. 10, Issue 3, pp. 160-168, May 2013.

I. F. Moawad, H. Talha, E. Hosny, M. Hashim, "Agent-based Web Search Personalization Approach Using Dynamic User Profile", Egyptian Informatics Journal, EIJ, Elsevier, Vol. 13, Issue 3, pp. 191-198, November 2012.

I. F. Moawad, G. AL Marzoqi, A. M. Salem, "Building OBR-based OWL Ontology for Viral Hepatitis", The Egyptian Computer Science Journal, ECS, Vol. 36, No. 1, pp. 89-98, January 2012.

I. F. Moawad, M. M. Aref, and S. S. Ibrahim, "Ontology-based Model for Generating Text Semantic Representation", International Journal of Intelligent Computing and Information Sciences, IJICIS, Vol. 11, No. 1, pp. 117-128, January 2011.

S. Edrees, A. Rafea, **I. F. Moawad**, M. Yahia, "NEPER: a multiple strategy wheat expert system", Computers and Electronics in Agriculture Journal, Elsevier, vol. 40, pp. 27-43, 2003.

Refereed International Conferences

Ehab Shafei, **I. F. Moawad**, Mostafa Aref, "Design and Implementation for Safety Critical Software Systems", the 9th International Conference on Electrical Engineering (ICEENG-9) , Cairo, Egypt, May 27-29, 2014.

G. Farouk, M. Aref, **I. F. Moawad**, "A CBR-inspired Approach for Opponent Modeling in Real Time Strategy Games", the Sixth International Conference on Intelligent Computing and Information Systems (ICICIS'2013), Cairo, Egypt, December 14-15, 2013.

M. Mahmoud, **I. F. Moawad**, M. Aref, "Graph Reduction in Abstractive Text Summarization", The Thirteenth Conference on Language Engineering (ESOLEC'2013), Cairo, Egypt, December 11-12, 2013.

Y. M. Afify, **I. F. Moawad**, N. L. Badr, M.F. Tolba, "A Semantic-based Software-as-a-Service (SaaS) Discovery and Selection System", The 8th International Conference on Computer Engineering & Systems (ICCES'2013), Cairo, Egypt, November 26-27, 2013.

G. M. Farouk, **I. F. Moawad**, M. Aref, "Generic Opponent Modelling Approach for Real Time Strategy Games", The 8th International Conference on Computer Engineering & Systems (ICCES'2013), Cairo, Egypt, November 26-27, 2013.

S. S. Ismail, **I. F. Moawad**, M. Aref, "Arabic Text Representation using Rich Semantic Graph: A Case Study", The Proceedings of the 4th European Conference of Computer Science (ECCS '13), Paris, France, October 29-31, 2013.

Sally S. Ismail, Mostafa Aref, **I. F. Moawad**, "Rich Semantic Graph: A New Semantic Text Representation Approach for Arabic Language", 7th WSEAS European Computing Conference (ECC '13), Dubrovnik, Croatia, June 25-27, 2013.

Ehab Shafei, **I. F. Moawad**, Hany Sallam, Zaki Taha, Mostafa Aref, "A Methodology for Safety Critical Software Systems Planning", 7th WSEAS European Computing Conference (ECC '13), Dubrovnik, Croatia, June 25-27, 2013.

G. AL Marzoqi, **I. F. Moawad**, A. M. Salem, "Web Service based Approach for Viral Hepatitis Ontology Sharing and Diagnosing", The first International Conference on Advanced Machine Learning Technologies and Applications (AMLTA12), Cairo, Egypt, Dec. 8-10, 2012.

D. A. Sharaf El Deen, **I. F. Moawad**, K. El Bahnasy, and M. E. Khalifa, "Learning and Applying Range Adaptation Rules in Case-Based Reasoning Systems", The first International Conference on Advanced Machine Learning Technologies and Applications (AMLTA12), Cairo, Egypt, Dec. 8-10, 2012.

S. M. Yassin, **I. F. Moawad**, R. El Gohary, M. F. Tolba, "Ontology-based Model for Rational Unified Process Artifacts Traceability", The 2012 International Conference on Computer Engineering & Systems (ICCES'2012), Cairo, Egypt, November 27-29, 2012.

I. F. Moawad, M. Aref, "A Semantic Graph Reduction Approach for Abstractive Text Summarization", The 2012 International Conference on Computer Engineering & Systems (ICCES'2012), Cairo, Egypt, November 27-29, 2012.

I. F. Moawad, D. Fadel and M. Aref, "Rich Semantic Representation Based Approach for Text Generation", The 8th International Conference on Informatics and systems (INFOS2012), Cairo, Egypt, May 14-16, 2012.

S. Saad, **I. Moawad**, M. Aref, Ontology-Based Approach for Arabic Text Summarization, Fifth International Conference on Intelligent Computing and Information Systems (ICICIS 2011), Cairo, Egypt, 30 June – 3 July, 2011.

S. S. Ibrahim, **I. F. Moawad**, M. M. Aref, Rich Semantic Graph Representation, Fifth International Conference on Intelligent Computing and Information Systems (ICICIS 2011), Cairo, Egypt, 30 June – 3 July, 2011.

N. W. Eldin, **I. F. Moawad**, Z. T. Fayed, M. M. Aref, An Arabic Factoid Question Answering System Using User Personal Profile, Fifth International Conference on Intelligent Computing and Information Systems (ICICIS 2011), Cairo, Egypt, 30 June – 3 July, 2011.

M. Aref, **I. F. Moawad**, D. Sayed, Natural Language Generation Sentence Planner, Fifth International Conference on Intelligent Computing and Information Systems (ICICIS 2011), Cairo, Egypt, 30 June – 3 July, 2011.

M. M. Aref, **I. F. Moawad**, S. S. Ibrahim, "Rich Semantic Graph Generation System Prototype", The Tenth Conference on Language Engineering (ESOLEC'10), Cairo, Egypt, December 15-16, 2010.

I. F. Moawad, M. Abdeen, M. M. Aref, "Ontology-based Architecture for an Arabic Semantic Search Engine ", The Tenth Conference on Language Engineering (ESOLEC'10), Cairo, Egypt, December 15-16, 2010.

I. F. Moawad, M. Aref, O. Enayet, and A. Al-Ogail, "Intelligent Online Case-based Planning Agent Model for Real-Time Strategy Games", The 10th International Conference on Intelligent Systems Design and Applications (ISDA 2010), Cairo, Egypt, 29 November to 1 December 2010.

I. F. Moawad, M. M. Aref, "A Semantic Graph Reduction Approach for Abstractive Text Summarization", The Ninth Conference on Language Engineering (ESOLEC'2009), Cairo, Egypt, December 23-24, 2009.

I. F. Moawad, S. Gamalel-Din, M. Zaki, A. Rafea, "Converting Stand-alone Diagnostic Expert System into Negotiating Agent", The Fourth International Conference on Informatics and Systems (INFOS2006), Cairo University, Egypt, March 25-27, 2006.

S. Edrees, A. Rafea, **I. F. Moawad**, M. Yahia, "Developing Strategic Expert System Using Multiple Design Approach", the Forth International Workshop on Artificial Intelligence in Agriculture, Budapest, Hungary, June 6-8, 2001.

S. Gamalel-Din, S. Mabrouk, **I. F. Moawad**, A. Rafea, "From Scientific Discovery to knowledge Discovery in Databases", the Eighth International Conference on Artificial intelligence Application, Cairo, Egypt, February 3-6, 2000.

Book Chapter

Yasmine M. Afify, **I. F. Moawad**, Nagwa Badr, M. F. Tolba "Cloud Services Discovery and Selection: Survey and New Semantic-Based System" A. E. Hassanien et al. (eds.), *Bio-inspiring Cyber Security and Cloud Services: Trends and Innovations*, Intelligent Systems Reference Library 70, DOI: 10.1007/978-3-662-43616-5_17, © Springer-Verlag Berlin Heidelberg 2014.

Books

Ibrahim Fathy Moawad, "A Framework for Multi-agent Diagnosis System: Argumentation-based Negotiation Technique for Belief Conflict Resolution", LAP LAMBERT Academic Publishing, 2011.

Samir El-Dardiri, **Ibrahim Fathy Moawad**, "تطوير البرمجيات باستخدام لغة فيجوال "بييسك.نت", Al-Alamiah Institute for Computer & Technology, Kingdom of Saudi Arabia, 24/7254, 2005.

Ibrahim Fathy Moawad, "اساسيات برمجة الانترنت", Al-Alamiah Institute for Computer & Technology, Kingdom of Saudi Arabia, 1424/7257, 2004.

Book Translation

Ibrahim Fathy Moawad, “ تطوير التطبيقات المعتمدة على الكائنات باستخدام لغة “
”مايكروسوفت فيجوال بيسك . نت
The Translation Center, King Saud University,
2011.

E. Reed Doke, John W. Satzinger, Susan Rebstock Williams, David Douglas,
"Object-Oriented Application Development Using Microsoft Visual Basic
.NET", Course Technology, 2003.

E-Learning Courses

Ibrahim Fathy Moawad, “*Software Engineering (1)*”, Egyptian E-Learning
University (EELU), Egypt, 2011.

Technical Reports

S. Edrees, **I. F. Moawad**, “*Implementation of Diagnosis Expert Systems for
Grapes Disorders*”, Central Laboratory of Agriculture Expert Systems
(CLAES), TR/Claes/147/2000.6, 2000.

S. Edrees, **I. F. Moawad**, “*Implementation of Grapes Plant Care Expert
Systems*”, Central Laboratory of Agriculture Expert Systems (CLAES),
TR/Claes/107/2000.01, 2000.

S. Edrees, **I. F. Moawad**, “*Design of an Expert System for Strawberry
Discovers Diagnosis*”, Central Laboratory of Agriculture Expert Systems
(CLAES), TR/Claes/99/99.12, 1999.

S. Edrees, **I. F. Moawad**, "*Grapes Plant Care Expert Systems Design*", Central Laboratory of Agriculture Expert Systems (CLAES), TR/Claes/90/99.11, 1999.

S. Edrees, **I. F. Moawad**, "*Implementation of Mango Plant Expert Systems*", Central Laboratory of Agriculture Expert Systems (CLAES), TR/Claes/88/99.10, 1999.

S. Edrees, **I. F. Moawad**, "*Plant care Design for Mango production Expert Systems*", Central Laboratory of Agriculture Expert Systems (CLAES), TR/Claes/84/99.9, 1999.

S. Edrees, **I. F. Moawad**, "*Implementation of Irrigation & Fertilization of Rice production Expert System*", Central Laboratory of Agriculture Expert Systems (CLAES), TR/Claes/67/99.4, 1999.

S. Edrees, **I. F. Moawad**, "*Implementation of Land Preparation and Planting Subsystem for Rice production Expert System*", Central Laboratory of Agriculture Expert Systems (CLAES), TR/Claes/64/99.3, 1999.

S. Edrees, **I. F. Moawad**, "*Implementation of Grapes Plant Care Subsystem*", Central Laboratory of Agriculture Expert Systems (CLAES), TR/Claes/47/98.11, 1998.

Research interest:

- Artificial Intelligence.
- Software Engineering.
- Semantic Information Retrieval.

- Ontology Engineering.
- Text Summarization.
- Medical Decision Support Systems.
- Data Mining

Research team: past and current MSc and PhD students

PhD Theses

- Developing Semantic-based System for Arabic Information Retrieval.
- Ontology Based Approach for Arabic Text Summarization.
- Developing Safety Critical Software Systems Framework for Nuclear Power Plants.
- Developing a Personalized Semantic Technique for Arabic Question Answering.
- An Enhanced Semantic-based Approach for Automatic Web Service Discovery.
- Developing Semantic-based System for Arabic Information Retrieval.

MSc Theses

- Ontology-Based Text Representation for Report Abstraction.
- Ontology Engineering based Approach for Requirements Traceability.
- Semantic-based Approach For Text Generation.
- Opponent Modelling –Based Adaptive Engine For RTS Games.
- Multi-agent System based Approach for Web Search Personalization.
- A Semantic Web based Multi-Agent Platform for Clinical Diagnostic Decision Support System.
- Ontology-based Approach for Medical Knowledge Management.

Teaching

- Artificial Intelligence.
- Data Mining.
- Decision Support Systems.
- Logic Programming.

- Automata Theory.
- Database Concepts.
- System Analysis & Design.
- Software Engineering.
- Object Oriented Programming.
- Information Engineering.
- Data Structure.
- E-Commerce.
- Web-based Applications Development.
- C++ Programming Language.
- Visual Basic.Net Programming Language.

Education

Feb. 01 - Nov. 05 PhD in Systems and Computer Engineering

Faculty of Engineering, Al-Azhar University, Cairo, Egypt.

Dissertation: *"Intelligent Agents for Knowledge-Based Systems"*.

Research area: Artificial Intelligence and Multi-Agent System.

Feb. 97 - Sep. 00 MSc in Systems and Computer Engineering

Faculty of Engineering, Al-Azhar University, Cairo, Egypt.

Dissertation: *"Discovering relations from databases using machine learning"*.

Research area: Machine Learning, and Data Mining.

Sep. 90 - Jun. 95 BSc in Systems and Computer Engineering

Faculty of Engineering, Al-Azhar University, Cairo, Egypt.

General grade: Very Good.

Graduation project: *“Microprocessor educational tool using multimedia technique”*.

Project grade: Excellent.

Miscellaneous

(Awards, Activities,)

MANAGEMENT CAREER

Aug. 12 – Now **Managing Director**

Department of Management Information & Decision Support Systems,
Supreme Council of Universities, Ministry of Higher Education, Egypt.

Mar. 10 – Mar. 13 **Managing Director**

Central Unit of Information Technology Training, Supreme Council of
Universities, Ministry of Higher Education, Egypt.

Sep. 08 – Dec. 10 **Executive Manager**

Quality Assurance Unit, Faculty of Computer and Information Sciences,
Ain Shams University, Egypt.

Refereeing in International Journals/Conferences

- Egyptian Informatics Journal, Faculty of Computers and Information, Cairo University, Elsevier.
- International Journal of Intelligent Computing and Information Science, Faculty of Computers and Information, Ain Shams University, Egypt.
- The International Conference on Intelligent Computing and Information Systems2013 (ICICIS 2013), Faculty of Computers and Information Sciences, Ain Shams University, Egypt.

