Mamdouh Farouk Mohamed Farghaly

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Sex: Male
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Education

Degree	University/ date	Department	Thesis title
PhD	Tokyo University 2012	Creative informatics	An Approach for Semantic Search in the Web including Databases
Master	Cairo University 2005	Computer science	Ontology-based Semantic Annotation
Bachelor	Cairo University 2001	Computer science	An Expert Systems Framework

PhD thesis: Finding information in a huge intelligent knowledge base system such as semantic web is a big challenge. One of the main problems of finding information in semantic web is that each dataset depends on domain ontology. Moreover, in this thesis we propose representing data into Concept Description Language (CDL), which does not depend on domain ontology. In addition, an approach for converting web databases to CDL semantic format is proposed. Moreover, a semantic search engine for querying CDL data is proposed. The proposed technique is based on semantic graph matching.

PhD supervisor: **Prof. Ishizuka Matsuru**

Positions History

From	To	Position
Dec 2002	May 2003	Researcher in Central Laboratory of Agriculture Expert Systems (CLAES), Egypt
May 2003	Mar 3009	Lecturer assistant in Computer science dept. Assuit University, Egypt
Mar 2009	Sep 2012	PhD Student at University of Tokyo (scholarship funded by Egyptian Gov.)

Oct 2012	Mar 2013	Researcher at The University of Tokyo
Apr 2013	Sep 2013	Lecturer at Assiut University, Computer science dept.
Jun 2014	Mar 2015	Software Engineer at Technology Development Dept. of ZMP Inc. Japan
Mar 2015	now	Lecturer at Assiut University, Computer science dept.
Apr 2015	now	Director of Quality Assurance Unit.

Projects

EVERGROW: The vision of the EVERGROW project is to invent methods and systems, and build infrastructure for measurement and analysis of network traffic, topology and logical structure, so that we can start now to address the opportunities presented by the Internet of 2025.

A distributed computing and data storage facility, at the same time an archive of network data. This will permit shared access to the very large information obtained from network observatories. (http://www.evergrow.org)

Research topics

Semantic Web, Knowledge Representation, Ontology Mapping, Information Retrieval, Data Mining, Semantic Web Search, Artificial Intelligence System, Autonomous Driving, SLAM.

Current research

Text document clustering gains a lot of attention especially after the explosion of data grows on the web. Document clustering facilitates browsing a huge number of documents or large sets of web search results. Using wordNet improves the clustering results. However, WordNet should be used in a proper way which does not affect the performance. The contributions of this research are using wordNet to count the existence of term meaning instead of the term frequency and processing very large number of documents.

Awards

Best paper award

International Conference on Semantic Technology and Information Retrieval (STAIR), Malaysia, 2011

Best research paper award

International conference on web technologies and Internet applications (WebTech 2012) Indonesia, 2012

Computer Skills

- **Languages:** C, Java, Pascal, PHP, Html, C#, Prolog

- **Platforms:** Android, Mac, Windows

- **Database:** MySQL, Oracle

Professional Programming Experience

- Web developing

- Applications designing, developing and testing

- Design solution for legacy application's problem

- Android application developing

Languages

- English: Fluent

- Arabic: Native

- Japanese: Beginner

Teaching and Academic Experience

More than five year experience in teaching in Computer science department, Assuit University, Egypt. In addition, one year experience in Educational Quality Assurance Unit. I was involving in the following courses

- Artificial Intelligence course

- Data structure, File structure

- Programming Language courses C++, Java.

- Computer Graphics, Image processing

current director of Quality Assurance Unit.

Academic Training Courses

- Communication Skills

- Skills of Effective Presentation

- University Management

- Effective Teaching Skills

- Quality Standards in the Education Process.

- International Publishing of Scientific Research.

- Use of Technology in Teaching

Publications and Research Activities

1. M. Farouk, M. Ishizuka: CDL-Based Semantic Representation for Dynamic Web Pages, International Journal of Semantic Computing, Vol. 6, No. 1, pp. 51-65, 2012.

2. M. Farouk, Samhaa R. El-Beltagy, Mahmoud Rafea: On-the Fly Annotation of Dynamic Web Pages, Proceedings of the 1st International Conference on Web Information Systems and Technologies(WEBIST 2005), pp. 327-332, Miami, USA, 2005

3. M. Farouk, M. Ishizuka: Semantic Conversion for Dynamic Web Pages, Web Intelligence/IAT, 4th International Workshop on Web Information Retrieval Support Systems (WIRSS 2011), pp. 285-288, Lyon, France, 2011.

4. M. Farouk, M. Ishizuka: A Search Engine for Semantic Web, Forum in Information Technology (FIT2011), pp. 579-582, Hakodate, Japan 2011.

5. M. Farouk, M. Ishizuka: Semantic Structure Content for Dynamic Web Pages, International Conference on Semantic Technology and Information Retrieval (STAIR) , pp. 28-29, Malaysia, June 2011.

6. M. Farouk, M. Ishizuka: An Inference Based Query Engine for RDF Data, Proceedings of 2012 International Conference On Information Retrieval & Knowledge Management, pp. 331-334, Malaysia, March 2012.

7. M. Farouk, M. Ishizuka: CDL-Based Semantic Representation for Web Databases, Proceedings of International Conference On Web Technologies And Internet Applications (WebTech 2012), pp 56-60, Indonesia, May 2012.

8. M. Farouk, M. Ishizuka: Converting DB to RDF With Additional Defined Rules, Proceedings of the 8th International Conference on Web Information Systems and Technologies(WEBIST 2012) , pp 709-716, Porto, Portugal, April, 2012. (short paper)

9. M. Farouk, M. Ishizuka: A Rule-Based SPARQL Endpoint Wrapper, Proceedings of the 8th international Conference on Web Information Systems and Technologies(WEBIST 2012) , pp 729-73, Porto, Portugal, April, 2012. (poster)

10. M. Farouk, M. Ishizuka: An Extensible Approach for Mapping Relational DB to RDF, Proceedings of the 2012 Japan-Egypt Conference on Electronics, Communications and Computers, pp 179-183, Alexandria, Egypt, March 2012.

11. M. Farouk, M. Ishizuka: Mapping DB to RDF With Additional Discovered Relations, Proceedings of the 11th WSEAS International Conference on Artificial Intelligence, Knowledge Engineering and DataBases (AIKED '12), pp 195-200, Cambridge, UK, February, 2012.