Curriculum Vitae

PERSONAL DETAILS

Name and Title: Dr. Rasha M. Ismail, Associate Professor
Department: Information Systems
Faculty: Faculty of Computer & Information Sciences
University: Ain Shams University
E-mail: rashaismail@cis.asu.edu.eg
Home page: http://staff.asu.edu.eg/?id=rashaismail
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Orcid ID: http://orcid.org/0000-0003-3581-8112
Publons web of science platform: https://publons.com/dashboard/records/publication/authored/

Current Position:

- Vice Dean for Postgraduate Studies and Research
- Director of Ain Sham University Portal
- Associate Professor, Information Systems Department

Qualifications:

-Ph.D. in Computer and Information Sciences, Information Systems Department, Faculty of Computer & Information Sciences, Ain Shams University, 2009, Title: "Design and Analysis of Data Warehouses in a Distributed Environment"
- M.Sc. in Computer and Information Sciences, Information Systems Department, Faculty of Computer & Information Sciences, Ain Shams University, 2003, Title: "Efficient Data Warehouses Views for Data Mining Applications".
- B.Sc. in Computer Sciences, Sadat Academy for Management Sciences, 1997

Previous Posts Held:

- Lecturer, Information Systems Department, FCIS, ASU, 2009 – 2015
- Lecturer, Future Academy, 2013
- Lecturer, Video conference Lectures, Faculty of computer and Information sciences, Fayoum University, 2011
- Lecturer, Video conference Lectures, Faculty of computer and Information sciences, Banha University, 2011
- Lecturer, Faculty of computer and Information sciences, Aviation Institute, 2010-2012
- Lecturer, Misr University. For sciences& Information Technology (MUST), 2011
- Lecturer, Faculty of computer and Information sciences, Akhbar El-yom Academy,2010-2011
- Lecturer, Faculty of computer and Information sciences, British University in Egypt(BUE), 2010
- Assistant Teacher, Information Systems Department, FCIS, ASU, 2003 – 2009
- Researcher, Information Systems Department, FCIS, ASU, 1998 - 2003

TEACHING ACTIVITIES

Current teaching responsibilities:
Undergraduate Courses:
Information Retrieval, Testing & Quality Assurance, Software Engineering Economics, Software Metrics, User Interface Design

Postgraduate Courses:
Advanced Information Systems Design,
Advanced Information Retrieval

Previous teaching responsibilities:
Undergraduate Courses:
Introduction to Computer, Introduction to Information Systems, Database Management Systems, System Analysis and Design, Information Engineering, Distributed Databases, Data Mining, Geographic Information Systems, Human Computer Interaction, Report Writing, Decision Support Systems
Postgraduate Courses:
Advanced Data Mining
Web Intelligence
Cloud Computing

ADMINISTRATIVE ACTIVITIES

Current administrative responsibilities:
- Vice Dean for Postgraduate Studies and Research, Faculty of Computer & Information
  Sciences, Ain Shams University
- Director of Ain Sham University Portal
- Academic Advisor for the Software Engineering Program

Previous administrative responsibilities:
- Director for the Credit Hours Programs, FCIS, Ain Shams University, 2018 – 2019
- Director of the Management Information Systems of Ain Shams University, 2018-2019
- Coordinator of the Bioinformatics and Software Engineering Programs, FCIS, Ain Shams
  University, 2013 – 2018

PROFESSIONAL ACTIVITIES

Current professional activities:
-Co-Editor of the International Journal of Intelligent Computing and Information Sciences(IJICIS)
-Committee Member in the Ain Shams University Archiving Committee for preparing the ASU
  Museum and the ASU Historical Book.
-Committee Member in the Ain Shams University Scientific devices Committee.

- Technical and Organizing Committee member in the 9th International Ain Shams University. Conference "Fourth Generation Universities between Reality and Aspiration".
- Postgraduate quality Assurance activities.
- Head of the Postgraduate Exams Committees.
- Supervision of Graduation projects for students in Bioinformatics and Software Engineering Programs and students in the Information Systems Department

Previous professional activities:

- Co-Chair for the 2019 IEEE ninth International Conference on Intelligent Computing and Information Systems, ICICIS, Ain Shams University.,8-10 December 2019

- Organizing Committee member for our faculty's biannual International conferences:
  - IEEE 8th International Conference on Intelligent Computing and Information Systems, ICICIS, Ain Shams University, Co-organized by IEEE, Cairo, Egypt, 2017
  - IEEE 7th International Conference on Intelligent Computing and Information Systems, ICICIS, Ain Shams University, Co-organized by IEEE, Cairo, Egypt, 12-14 Dec. 2015
  - 6th International Conference on Intelligent Computing and Information Systems, ICICIS, Ain Shams University, Co-organized by ACM, Cairo, Egypt, 14-16 December, 2013.
  - 5th International Conference on Intelligent Computing and Information Systems, ICICIS, Ain Shams University, Co-organized by ACM, Cairo, Egypt, 30 June – 3 July, 2011.
  - 4th International Conference on Intelligent Computing and Information Systems, ICICIS, Ain Shams University, Co-organized by ACM, Cairo, Egypt, March 15-18, 2009
  - 2nd International Conference on Intelligent Computing and Information Systems, ICICIS, Ain Shams University, Co-organized by ACM, Cairo, Egypt, 5-7 March, 2005.
  - 1st International Conference on Intelligent Computing and Information Systems, ICICIS, Ain Shams University, Co-organized by ACM, Cairo, Egypt, 2003.
- Organizing and Technical Committee member for the Annual International Ain shams University conferences:
  - The 8th Annual ASU Scientific Conference : Creativity, Innovation, Industry,2019
  - The 7Th Annual ASU Conference : Internationalization and Mobilization,2018
-Head of the Control of the Credit Hours Programs, 2013-2019
- Committee member in the Quality Assurance committee responsible for the accreditation of the our Faculty, 2016-2019
- Management of the Credit Hours Programs Quality Assurance Activities, 2013-2019
- Committee Member in the Auditing Committee for the projects of the Electronic and Services Centre in the Supreme Council of Universities
- Analysis for the management information system of the minister of water.

- Analysis, design and implementation for the student affair system and the control system for the faculties of Ain Shams University.
- Analysis, design and implementation for the system of the scientific committee.
- Maintaining the systems of the avionic institute (payroll, inventory, etc) and developing the new requirements they needed.

STAFF DEVELOPMENT ACTIVITIES

Relevant staff development activities:
Attended some training courses at "Training and Development Center, Ain Shams University", "National Authority for Quality Assurance and Accreditation of Education, NAQAAE" and "Egyptian Knowledge Bank Courses" and others which helped me to be more effective in my post as a teacher/administrator:

- THE HR webinars: Faculty recruitment in MENA and COVID-19 Start date Jun 25, 2020 01:00 PM London
- ARRU Journal Platform-User Experience Sharing Session at Webinar on 24 June 2020- Elsevier Research Academy
- Introduction to Bioinformatics Training Course (IBT_2020), scheduled to run from 5 May 2020 to 31 July 2020. By H3ABioNet's Pan African Bioinformatics Network for H3Africia
- Sustainable Development Goals in Higher Education,14-15 January,2020
- Time and Meetings Management,12-13 January, 2020
- Developing World Class University and Research Center Websites, 16-17 April,2019
- Competitive local and international research projects 4-5 August 2015
- Managing research team, 2-3 August 2015
- Communications Skills, 26-27 July 2015
- Credit hours System, 14-15 July 2015
- Learning Outcomes and Curriculum Maps - Higher Education, 25-29 September 2011
- Strategic planning for higher education institutions, 18-19 September 2011
- Conference Organization, 2009
- Examination systems and student assessment, 2009
- Legal and financial aspects in University, 2009

RESEARCH ACTIVITIES

Current Research Related Activities:
- Currently supervising 6 M.Sc. students and 3 Ph.D. students.
- Supervised 7 M.Sc. students and 3 Ph.D. students who already obtained their degrees
- Participated in several Conferences and workshops on Computer Science (Egypt, Netherlands).
- Supervised various research-oriented projects in the fields of Data Mining, Bioinformatics, Machine Learning, Information Retrieval, Artificial Intelligence, Cloud Computing, Software Engineering...etc.

Total Number of Research Publications: 51 Publications

[1] O. H. Karam, M. A. El-Sharkawy, O. Ibrahim, R. Ismail. The Enhanced Greedy Interchange Algorithm for the Selection of Materialized Views Under Maintenance Cost Constraints in Data Warehouses. In the Proceedings of the 5th IEEE/ACM International Conference on Enterprise Information Systems (ICEIS), Angers, France, April 2003, pp. 279-284.

[2] O. H. Karam, M. A. El-Sharkawy, O. Ibrahim, R. Ismail. Performance of the Greedy Interchange Algorithm for Data Warehouse Views Under Maintenance Cost Constraints. In the Proceedings of the 7th IEEE International Conference on Intelligent Engineering Systems (INES), Assiut, Egypt, March 2003, pp. .

[3] O. H. Karam, M. A. El-Sharkawy, O. Ibrahim, R. Ismail. Enhancement of the Greedy Interchange Algorithm for the Selection of Views to Materialize in Data Warehouses. In the Proceedings of the International Conference on Intelligent Computing and Information Systems (ICICIS), Cairo, Egypt, June 2002, pp. 284-290.

[4] R. Ismail, O. H. Karam, M. A. El-Sharkawy, M. S. Abdel-Wahab,. Views Maintenance in Distributed Data Warehouse Environments. In the Proceedings of the International Conference on Intelligent Computing and Information Systems (ICICIS), Cairo, Egypt, March 2009, pp. 284-290.

[5] R. Ismail, O. H. Karam, M. A. El-Sharkawy, M. S. Abdel-Wahab. Streaming Real Time Data in Data Warehouses for Just-in-time Views Maintenance. In the Proceedings of the IADIS International Conference on Applied Computing, Rome, Italy, November 2009.

[6] R. Ismail, O. H. Karam, M. A. El-Sharkawy, M. S. Abdel-Wahab,. An Adaptive Peer-to-peer Network for Distributed Data Warehouse Views. In the International Journal of Intelligent Computing and Information Sciences (IJICIS), Vol 8 No 9, June 2009

[7] Ismail, R.M, Maintenance of materialized views over peer-to-peer data warehouse architecture, Proceedings of the international conference on Computer Engineering and Systems (ICCES), pp. 312 - 318, Cairo, Egypt (2011)

[8] M. E. Megahed, Rasha M. Ismail, Nagwa L. Badr, Mohamed F. Tolba, An Enhanced Cloud-based View Materialization Approach for Peer-to-Peer Architecture, Proceedings of the First International Conference, Advanced Machine Learning Technologies and Applications ,AMLTA 2012, Cairo, Egypt, Volume 322, 2012, pp 401-412, December 8-10, 2012

[9] Eman A. Maghawry, Rasha M. Ismail, Nagwa L. Badr, Mohamed F. Tolba, An Enhanced Resource Allocation Approach for Optimizing Sub Query on Cloud, Proceedings of the First International Conference, Advanced Machine Learning Technologies and Applications ,AMLTA 2012, Cairo, Egypt, Volume 322, 2012, pp 413-422, December 8-10, 2012

[10] Hussein, W., Ismail, R. M., Gharib, T. F. and Mostafa, M. G. M., A Personalized Recommender System Based on a Hybrid Model . In Journal of Universal Computer Science (JUCS), 19(15), 2224-2240, 2013. **(IF=0.910)**

[11] Hussein, W., Gharib, T.F., Ismail, R.M., and Mostafa, M. G. M., A Decision Fusion of User Page and Concept Matrices for Enhancing Next Page Prediction, In Proceedings of the 9th Int. Conf. on Informatics and Systems (INFOS2014), 15-17 December, Egypt, 2014.

[12] Hussein, W., Gharib, T.F., Ismail, R.M., and Mostafa, M. G. M., A User-Concept Matrix Clustering Algorithm for Efficient Next Page Prediction , Journal of Knowledge and Web Engineering , 2014 **(ISI IF=**0.854**).**

[13] Eman A. Maghawry, Rasha M. Ismail, Nagwa L. Badr, Mohamed F. Tolba, An Enhanced Queries Scheduler for Query Processing over A Cloud Environment, In the Proceedings of the 9th International Conference on Computer Engineering & Systems (ICCES), Cairo, Egypt, **,** December 22-24, 2014

[14] Fatma Mohamed, Rasha M. Ismail, Nagwa L. Badr, Mohamed F. Tolba, Efficient Optimized Query Mesh for Data Streams, In the Proceedings of the 9th International Conference on Computer Engineering & Systems (ICCES), Cairo, Egypt, December 22-24, 2014

[15] Maghawry E.A., Ismail R.M., Badr N.L., Tolba M.F. Queries Based Workload Management System for the Cloud Environment. In Advanced Machine Learning Technologies and Applications. AMLTA 2014. Communications in Computer and Information Science, vol 488. Springer, 2014

[16] Hajeer S.I., Ismail R.M., Badr N.L., Tolba M.F. An Adaptive Information Retrieval System for Efficient Web Searching. In Advanced Machine Learning Technologies and Applications. AMLTA 2014. Communications in Computer and Information Science, vol 488. Springer, 2014

[17] S. I. Hajeer, R. M. Ismail, N. L. Badr and M. F. Tolba, "An Efficient Hybrid Usage-based Ranking model for information retrieval systems & web search Engine," *2015 6th International Conference on Information and Communication Systems (ICICS)*, pp. 142-147,Amman, 2015.

[18] S. I. Hajeer, R. M. Ismail, N. L. Badr and M. F. Tolba, AEHURA: A New ranking algorithm for Arabic web search engines, Asian Journal of Information Technology, Volume 14, Issue 3, Pages 105-110, 2015. **(SJR 0.12)**

[19] Hussein, W., Gharib, T.F., Ismail, R.M., and Mostafa, M. G. M., An Efficient framework based on usage and semantic data for next page prediction, In Intelligent Data Analysis Journal, vol. 19, no. 6, pp. 1377-1389, 2015. **(ISI IF=0.612).**

[20] Ezzat M., Ismail R., Badr N., Tolba M.F. (2016) A Peer-to-Peer Architecture for Cloud Based Data Cubes Allocation. In the 1st International Conference on Advanced Intelligent System and Informatics (AISI2015), November 28-30, 2015, Beni Suef, Egypt. Advances in Intelligent Systems and Computing, vol 407. Springer

[21] Maghawry E.A., Ismail R.M., Badr N.L., Tolba M.F. (2016) Enhancing Query Optimization Technique by Conditional Merging Over Cloud Computing. In the 1st International Conference on Advanced Intelligent System and Informatics (AISI2015), November 28-30, 2015, Beni Suef, Egypt. Advances in Intelligent Systems and Computing, vol 407. Springer

[22] Mohamed F., Ismail R.M., Badr N.L., Tolba M.F. Optimized Elastic Query Mesh for Cloud Data Streams. In Computational Science and Its Applications - ICCSA 2015. ICCSA 2015. Lecture Notes in Computer Science, vol 9155. Springer, 2015

[23] Hajeer S.I., Ismail R.M., Badr N.L., Tolba M.F. An Efficient Hybrid Usage-Based Ranking Algorithm for Arabic Search Engines. In Computational Science and Its Applications - ICCSA 2015. ICCSA 2015. Lecture Notes in Computer Science, vol 9155. Springer, 2015

[24] F. M. Najib, R. M. Ismail, N. L. Badr and M. F. Tolba, "Multiple queries optimization for data streams on cloud computing," *2015 Tenth International Conference on Computer Engineering & Systems (ICCES)*, Cairo, 2015, pp. 28-33.

[25] D. Elalfy, W. Gad and R. Ismail, "Predicting best answer in community questions based on content and sentiment analysis," *2015 IEEE Seventh International Conference on Intelligent Computing and Information Systems (ICICIS), pp. 585-590.,Cairo, 2015.*
[26] Hajeer, S.I., Ismail, R.M., Badr, N.L., Tolba, M.F. An automatic Arabic web personalization search engines and information retrieval systems, International Journal of Soft Computing,11(6), pp. 382-390,2016 (SJR=0.13)

[27] Maghawry, E.A., Ismail, R.M., Badr, N.L., Tolba, M.F., An enhanced query optimization approach for cloud data management, Asian Journal of Information Technology, 15(11), pp. 1691-1705 , 2106 **(SJR 0.12)**

[28] Hatem, Y., Rady, S., Ismail, R., Bahnasy, K., Automatic content description and annotation of sport images using classification techniques, ACM International Conference Proceeding Series 09-11-May-2016,2908458, pp. 88-94, 2016

[29] Helal, N.A., Ismail, R.M., Badr, N.L., Mostafa, M.G.M., An efficient algorithm for community detection in attributed social networks, ACM International Conference Proceeding Series,09-11-May-2016,2908474, pp. 180-184,2016

[30] Safaa I. Hajeer , Rasha M. Ismail , Nagwa L. Badr and M.F. Tolba**,** A New Efficient Approach for Multi-Language Search Engines and Formation Retrieval Systems, Asian Journal of Information Technology, Volume: 15, Issue: 22, Page No.: 4617-4625,2016 **(SJR=0.12)**

 [31] Helal, N.A., Ismail, R.M., Badr, N.L., Mostafa, M.G.M.**,** A novel social network mining approach for customer segmentation and viral marketing, In the Journal of Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery,6(5), pp. 177-189,2016 **(IF=4.476)**

[32] Mohamed F., Ismail R.M., Badr N.L., Tolba M.F. Data Streams Processing Techniques. In Multimedia Forensics and Security. Intelligent Systems Reference Library, vol 115. Springer, 2017

[33] Megahed M.E., Ismail R.M., Badr N.L., Tolba M.F. An Enhanced Cloud Based View Materialization Approach for Peer-to-Peer Architecture. In Multimedia Forensics and Security. Intelligent Systems Reference Library, vol 115. Springer, 2017

[34] Hajeer S.I., Ismail R.M., Badr N.L., Tolba M.F. A New Stemming Algorithm for Efficient Information Retrieval Systems and Web Search Engines. In Multimedia Forensics and Security. Intelligent Systems Reference Library, vol 115. Springer, 2017

[35] Elsalmy F., Ismail R., AbdelMoez W. Enhancing Web Page Classification Models. In Proceedings of the International Conference on Advanced Intelligent Systems and Informatics AISI 2016. Advances in Intelligent Systems and Computing, vol 533. Springer, 2017

[36] R. Kamal, W. Hussein and R. Ismail, Privacy preserving recommender system based on improved MASK and query restriction, *Eighth International Conference on Intelligent Computing and Information Systems (ICICIS),* Cairo, pp. 310-314, 2017.

[37] G. Hafez, R. Ismail and O. Karam, Temporal sentiment analysis and time tags for opinions, *Eighth International Conference on Intelligent Computing and Information Systems (ICICIS),* Cairo, pp.373-378, 2017.

[38] Helal, N.A., Ismail, R.M., Badr, N.L., Mostafa, M.G.M., Leader-based community detection algorithm for social networks, In the Journal of Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery 7(6),e1213, 2017 **(IF=4.476)**

[39] Y. Hatem, R. Ismail, S. Rady and K. Bahnasy, Enhancing sports image search and retrieval using multi-modality ontology, *12th International Conference on Computer Engineering and Systems (ICCES)*, Cairo, pp. 331-336, 2017

[40] Hafez Ghada, Rasha Ismail, and Omar Karam. Opinion Mining with Aspects and Shortcuts for Prediction Model. In Asian Journal of Information Technology 17 (3): 212-217. 2018 **(SJR 0.12)**.

[41] Elalfy, D., Gad, W., Ismail, R., A hybrid model to predict best answers in question answering communities, Egyptian Informatics Journal 19(1), pp. 21-31,2018 **(IF=2.306)**

[42] Najib, F.M., Ismail, R.M., Badr, N.L., Tolba, M.F, Cloud-based data streams optimization, In Journal of Wiley Interdisciplinary Reviews: Data Mining and Knowledge Discovery, 8(3),e1247, 2018 **(IF=4.476)**

[43] Kamal R., Hussein W., Ismail R. Adopting Non-linear Programming to Select Optimum Privacy Parameters for Multi-parameters Perturbation Algorithm for Data Privacy Improvement in Recommender Systems. In Proceedings of the International Conference on Advanced Intelligent Systems and Informatics. AISI 2018. Advances in Intelligent Systems and Computing, vol 845. Springer, 2019

[44] M. Rady, T. Abdelkader and R. Ismail, SCIQ-CD: A Secure Scheme to Provide Confidentiality and Integrity of Query results for Cloud Databases, *14th International Computer Engineering Conference (ICENCO)*, Cairo, Egypt, pp. 225-230, 2018.

[45] Abdelaziz, E.H., El-Bhanasy, K., Kamal, S.M., Ismail, R., The application of data mining techniques and feature selection methods in the risk classification of Egyptian liver cancer patients using clinical and genetic data, ACM International Conference Proceeding Series of the 2019 8th International Conference on Software and Information Engineering pp. 200-205, 2019.

[46] Rady, M., Abdelkader, T., Ismail, R., Integrity and Confidentiality in Cloud Outsourced Data, Ain Shams Engineering Journal 10(2), pp. 275-285, 2019.**(IF=3.091)**

[47] Aboelela E.M., Gad W., Ismail R. Feature Extraction Using Semantic Similarity. In Proceedings of the International Conference on Advanced Intelligent Systems and Informatics. AISI 2019. Advances in Intelligent Systems and Computing, vol 1058. Springer, pp. 82-91, 2019(**SJR=0.184**)

[48] Najib, Fatma M. | Ismail, Rasha M. | Badr, Nagwa L. | Gharib, Tarek F., 'Clustering Based Approach for Incomplete Data Streams Processing', In Journal of Intelligent & Fuzzy Systems, DOI: 10.3233/JIFS-191184, vol. 38, no. 3, pp. 3213-3227, 2020, **(IF= 1.851).**

[49] Abdelaziz, E.H., Kamal, S.M., El-Bhanasy, K. and Ismail, R,. A Regression-based model for predicting the best mode of treatment for Egyptian liver cancer patients, In Network Modeling

Analysis in Health Informatics and Bioinformatics Journal , 9, 41, Springer, 2020. https://doi.org/10.1007/s13721-018-0166-0 (**SJR=0.36)**

[50] F.M. Najib, R.M. Ismail, N.L. Badr, and T.F. Gharib, Incomplete high dimensional data streams clustering, Journal of Intelligent & Fuzzy Systems.(IF=1.851 Accepted with minor Revision)

[51] F.M. Najib, R.M. Ismail, N.L. Badr, and T.F. Gharib, An efficient approach for query processing of incomplete high dimensional data streams, Physica A: Statistical Mechanics and its Applications. .(IF=2.777 Submitted)