

Dr. Mohamed Hamdy Mohamed El-Eliemy

Email: m.hamdy@cis.asu.edu.eg
Al Khalifa El-Ma'moun st.,
11566 Abbasseya, Cairo, Egypt.



Assistant Professor,
Information Systems Department,
Faculty of Computer and Information Sciences,
Ain Shams University
<http://www.cis.asu.edu.eg>

Director,
Ain Shams University Information Network,
<http://net2.shams.edu.eg/asunet/>

Other Online Profiles

_ [Google Scholar](http://scholar.google.com/citations?hl=en&user=vLmnJeQAAAAJ): <http://scholar.google.com/citations?hl=en&user=vLmnJeQAAAAJ>
_ [Scopus](http://www.scopus.com/authid/detail.url?authorId=55802372087): <http://www.scopus.com/authid/detail.url?authorId=55802372087>

Research

- Wireless Networks and Mobile Computing
- Network Simulation
- Services:
 - Non Functional and QoS Aspects
 - Service Execution and Planning
 - Mobile Services
 - Service Description and Composition
- Workflow Automation
- Data Mining
- AI Applications

Research team:

Team at FSU, Germany: Heinz-Nixdorf-Stiftungsprofessur für Verteilte Informationssysteme
<http://fusion.cs.uni-jena.de/professur>

Team at FCIS, Ain Shams, Egypt:

- **MSc. Safi Ibrahim** who works on her PhD Thesis in **Security Services for Vehicle Ad Hoc Networks**, at the Department of Information Systems, Faculty of Computer and Information Sciences, Ain Shams University.
- **MSc. Hanaa Said** who works on her PhD Thesis in **Data mining Approaches for Cyber Security**, at the Department of Information Systems, Faculty of Computer and Information Sciences, Ain Shams University.

- **MSc. Mahmoud Monier** who works on his PhD thesis in **Evaluation of Efficient Gene Expression Clustering Approaches**, at the Department of Information Systems, Faculty of Computer and Information Sciences, Ain Shams University by.
- **BSc. Yomna Mohsen** who works on her Master Thesis in **Secure Identity Hiding in AD Hoc Network**, at the Department of Computer Systems, Faculty of Computer and Information Sciences, Ain Shams University.
- **BSc. Ahmed Samy** who works on his Master thesis in **Securing Low Level Handover for WiMax Networks**, at the Department of Information Technology, Faculty of Computer and Information Sciences, Menofia University.
- **BSc. Nour Zawawi** who works on her Master Thesis in **Enhancing Database Watermarking Methods for Cloud**, the Department of Information Systems, Faculty of Computer and Information Sciences, Ain Shams University.
- **BSc. Islam Esmat** who works on her Master Thesis in **Content Forwarding for iTV**, at the Department of Information Systems, Faculty of Computer and Information Sciences, Ain Shams University.
- **BSc. Iman Ismail** who works on her Master Thesis in **Automatic Large Text Collections' Annotation**, at the Department of Information Systems, Faculty of Computer and Information Sciences, Ain Shams University.
- **BSc. Doaa Mohsen** who works on her Master Thesis in **Social Relations' Analysis in Mobile Ad Hoc Networks**, at the Department of Information Systems, Faculty of Computer and Information Sciences, Ain Shams University.

Teaching

- Undergraduate:
 - Data Mining [2011-2012 -to- 2013-2014]
 - Service Oriented Architecture [2011-2012; 2012-2013]
 - Computer Networks [2011-2012; 2012-2013]
 - Computer Networks Management [2011-2012 -to- 2012-2013]
 - Operating Systems [2010-2011]
 - Information Systems (lab., as a TA) [2000-2001 -to- 2005-2006]
 - Software Engineering (lab., as a TA) [2000-2001 -to- 2002-2003]
 - Database Management Systems (lab., as a TA) [2000-2001 -to- 2005-2006]
 - Physics (lab., as a TA) [2000-2001 -to- 2005-2006]
 - Computer Architecture (lab., as a TA) [2002-2003 -to- 2003-2004]
- Postgraduate:
 - Mobile Data Management [2011-2012 -to- 2012-2013]
 - Advanced Computer Architecture [2013-2014]
 - Scientific Writing [2011-2012 -to- 2013-2014]
 - Mobile Computing and Service Oriented Architectures [2011=2012]

Education

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|----------------------------|---|
| December 2010 | - Doctor Engineer (PhD) , Friedrich Schiller University in Jena, Germany, Doctoral-Dissertation Title: “ Service Replication in Wireless Mobile Ad Hoc Networks ”, evaluated to a great distinction degree “ Magna Cum Laude ” (in Latin) with factor (1), Supervised by Prof. Dr. Birgitta König-Ries . |
| October 2006–December 2010 | -PhD Candidate at Heinz-Nixdorf Endowed Chair for Practical Computer Science , Institute of Computer Science, Faculty of Mathematics and Computer Science Friedrich Schiller University in Jena, Germany. |
| March 2004 | -M.Sc. of Information and Computer Sciences, Faculty of Information and Computer Sciences, Ain Shams University, Cairo, Egypt. Master Thesis Title: “ Quality-of-Service Routing for Ad-Hoc Wireless Mobile Networks ”, Supervised by Prof. Dr. Said Ghoniemy. |
| June 2000 | -B.Sc. in Information and Computer Sciences (Class: Information Systems), Ain Shams University, Cairo, Egypt. |
| October 1996 –June 2000 | -Undergraduate study in Information and Computer Sciences (Specialty: Information Systems), Faculty of Computer and Information Sciences, Ain Shams University, Cairo, Egypt. |

Miscellaneous

Publications

- **Book Chapters:**
 - Nour Zawawi, **Mohamed Hamdy**, R. El-Gohary, and M. F. Tolba, **Security Issues on Cloud Data Services**. Bio-Inspired Computing in Cyber Security, Aboul-Ella Hassanien, Ali Ismail Awad, Tai-hoon Kim and Janusz Kacprzyk , editors, Springer, To appear, July 2014.
 - **Mohamed Hamdy** and Birgitta König-Ries, **The Gross Interest: Service Popularity Aggregation**. Handbook of Research on Non-Functional Properties for Service-Oriented Systems: Future Directions, Stephan Reiff-Marganiec and Marcel Tilly, editors, IGI Global, December 2011.
 - **Mohamed Hamdy** and Birgitta König-Ries, **The Service Distribution Protocol for MANETs- Criteria and Performance Analysis**. In J. Filipe and M.S. Obaidat, editors, Book of Communications in Computer and Information Sciences, Book of the selected papers of the ICETE 2008, volume 48. Springer Berlin Heidelberg, 2009.
- **Journals**
 - N El-zawawi, **Mohamed Hamdy**, R El-gohary and M.F. Tolba, **A Database watermarking Service with a Trusted Authority Architecture for Cloud environment**. In The International Journal of Computer Applications, volume 69, Issue 13. Foundation of Computer Science, New York, USA, 2013.
- **In-proceedings**
 - Noor Zawawi, Rania El-Gohary, **Mohamed Hamdy**, and Mohamed Fahmy Tolba, **A Novel Watermarking Approach for Data Integrity and Non-repudiation in Rational**

- Databases.** In Proceedings of the 1st Advanced Machine Learning Technologies and Applications (AMLTA 2012), Cairo, Egypt, 2012.
- **Mohamed Hamdy** and Birgitta König-Ries, **An Interest-Based Load Balancing Mechanism for the Service Distribution Protocol in MANETs.** In Proceedings of the 8th International Conference on Advances in Mobile Computing and Multimedia (MoMM 2010), Paris, France, 2010.
 - **Mohamed Hamdy** and Birgitta König-Ries, **Impact of Heterogeneous Mobility Models on the Service Distribution Protocol for MANETs.** In Proceedings of the IADIS International Conference Wireless Applications and Computing (WAC 2010), Freiburg, Germany, 2010.
 - **Mohamed Hamdy** and Birgitta König-Ries, **New Service Selection Strategies for the Service Distribution Protocol for MANETs.** In Proceedings of the IADIS International Conference Wireless Applications and Computing (WAC 2010), Freiburg, Germany, 2010.
 - **Mohamed Hamdy**, Abdelouahid Derhab and Birgitta König-Ries, **A Comparison on MANETs' Service Replication Schemes: Interest versus Topology Prediction.** In Proceedings of The Second International Conference on Wireless and Mobile Networks (WiMo 2010), Ankara, Turkey, 2010.
 - **Mohamed Hamdy** and Birgitta König-Ries, **Leader Election Modes of the Service Distribution Protocol for Mobile Ad Hoc Networks.** In Proceedings of the fourth Conference on Mobility and Mobile Information Systems (4. Konferenz Mobilität und mobile Informationssysteme) (MMS 2009), Munster, Germany, 2009.
 - **Mohamed Hamdy** and Birgitta König-Ries, **An Extended Analysis of an Interest-Based Service Distribution Protocol for Mobile Ad Hoc Networks.** In Proceedings of the International Conference on Wireless Information Networks and Systems (WINSYS 2008), Porto, Portugal, 2008.
 - **Mohamed Hamdy** and Birgitta König-Ries, **A Service Distribution Protocol For Mobile Ad Hoc Networks.** the proceedings of the International Conference on Pervasive Services (ICPS 08), Sorrento, Italy.
 - Mohamed Hashem, **Mohamed Hamdy** and Said Ghoniemy, **A Quality-of-Service-Aware Genetic Algorithm for The Source Routing in Ad-hoc Mobile Networks.** In Proceedings of the 5th International Conference on Enterprise Information Systems (ICEIS 2003), Angers, France, 2003.
 - Mohamed Hashem, **Mohamed Hamdy** and Said Ghoniemy, **A Genetic Algorithm for Delay-Constrained Unicast Source Routing in Ad Hoc Wireless Mobile Networks.** In Proceedings of the first International Conference on Intelligent Computing and Information Systems (ICICIS 2003) , Cairo, Egypt, 2003.
 - Mohamed Hashem, **Mohamed Hamdy** and Said Ghoniemy, **Modified distributed quality-of-service routing in wireless mobile ad-hoc networks.** In Proceedings of the 11th IEEE Mediterranean Electrotechnical Conference (MELECON 2002), Cairo, Egypt, 2002.
 - **Peer-Reviewed Workshop Papers**
 - **Mohamed Hamdy** and Birgitta König-Ries, **Service Distribution Protocol for Mobile Networks and its Replica Placement Process.** In Proceedings of the International Workshop on the Role of Services, Ontologies, and Context in Mobile Environments (RoSOC-M 2009) in conjunction with the 10th International Conference on Mobile Data Management (MDM 2009), Taipei, Taiwan, 2009.
 - **Mohamed Hamdy**, Birgitta König-Ries and Ulrich Kuster, **Non-functional Parameters as First Class Citizens in Service Description and Matchmaking - An Integrated Approach.** In Proceedings of the International Conference on Service-Oriented Computing (ICSOC 2007) Workshops: The first International Workshop on Non Functional Properties and Service Level Agreements in Service Oriented Computing (NFPSLA-SOC 2007), Revised Selected Papers, Vienna, Austria, 2007.
 - **Mohamed Hamdy** and Birgitta König-Ries, **Service-Oriented in Mobile Computing - An Overview.** In Proceedings of the Tools and Applications for Mobile

Contents Workshop (TAMC 2006) in Conjunction with the 7th International Conference on Mobile Data Management (MDM 2006) (by Birgitta König-Ries), Nara, Japan, 2006.

- **Other publications**

- **Mohamed Hamdy** and Birgitta König -Ries, **SDP Primary Implementation in MicrosoftVisualC++**, A Service Distribution Protocol for MANETs. **Release Notes-User Manual-Programmer Guide**. <http://fusion.cs.uni-jena.de/professur/publications/2010>
- **Mohamed Hamdy** and Birgitta König -Ries, **SDP-Implementation in Opnetv.2**, SDP-Based Composite Service Execution in MANETs: **Release Notes-User Manual-Programmer Guide**. Opnetcontributed model library. <http://enterprise1.opnet.com/tsts/4dcgi/MODELSFullDescription?ModelID=951>.
- **Mohamed Hamdy** and Birgitta König -Ries, **SDP-Implementation in Opnetv.1, MANETs Service Replication and Load Balancing: Release Notes-User Manual-Programmer Guide**. Opnetcontributed model library. <http://enterprise1.opnet.com/tsts/4dcgi/MODELSFullDescription?ModelID=944>.
- **Mohamed Hamdy** and Birgitta König -Ries, **A Comparison Study for Service Replication Protocols in MANETs. Technical Report nr. Math/Inf/02/09**, Institute of Computer Science, Friedrich-Schiller-University Jena. http://www.minet.uni-jena.de/preprints/hamdy_09.
- **Mohamed Hamdy** and Birgitta König -Ries, **Service Availability, Success Ratio, Prevalence, Replica Allocation Correctness, Replication Degree, and Effects of Different Replication/Hibernation Behavior Effects of the Service Distribution Protocol for Mobile Ad Hoc Networks -A Detailed Study-**. **Technical Report nr. Math/Inf/08/08**, Institute of Computer Science, Friedrich-Schiller-University Jena. <http://www.minet>.