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EDUCATION

PhD (November 2007 – May 2012) Bonn, Germany.

Title: | **institution:** Bonn University, Germany | **Thesis:** Distributed Management of Grid-based Scientific Workflows | **Advisor:** Prof. Dr. Armin B. Cremers | **Committee:** Prof. Thomas Rose, Prof. Frank Bertoldi, PD. Dr. Volker Steinhage | **Grade:** Magna cum laude (0.9 = sehr gut +)

MA (September 2005 – July 2007) Trento, ITALY.

Title: Master in Computer Science, Net Centric Informatics | **Institution:** University of Trento, ITALY | **Thesis:** Tailorability of Personalized Web Services Composition | **Advisor:** Prof. Maurizio Marchese | **Grade:** 110/110 cum laude

MA (September 2005 – July 2007) Aachen, Germany.

Title: Master in Computer Science, Media Informatics | **Institution:** RWTH Aachen University, Germany | **Thesis:** Tailorability of Personalized Web Services Composition | **Advisor:** Prof. Dr. Armin B. Cremers | **Grade:** 1.4 = sehr gut

B.Sc. (September 1996 – July 2001) Ismailia, EGYPT.

Title: Bachelor of Computer Science | **Duration:** 4-year | **Institution:** Suez Canal University, Egypt | **GPA:** 3.9/4 - 1st rank | **Graduation project:** Intelligent Firewall System | **Project grade:** Excellent.

EMPLOYMENT

Assistant Professor (May 2012-Now) Ismailia, Egypt.
▪ Faculty of Computers and Informatics, Suez Canal University

Research Student & Teaching assistant (November 2007 – May 2012) Bonn, Germany.
▪ The Institute for Computer Science at Bonn University

Research activities related to my PhD topic “Distributed Management of Grid-based Scientific Workflows | Teaching duties including seminars, project groups, and lectures (in English language) | Assisting master students through their research.

Internship (August 2006 – September 2006) Bonn, Germany.
▪ The Institute for Computer Science at Bonn University

Extreme programming lab: using Java, IBM J9, SWT.

Internship (April 2006 – July 2006) Sankt Augustin, Germany.
▪ Fraunhofer – Gesellschaft.

Studying the Bluetooth networking characteristics for windows-based mobile devices: Using C# and .NET technology

Teaching Assistant (November 2001 – August 2005) Ismailia, Egypt.
▪ Faculty of Computers & Informatics, Suez Canal University.

Worked for four years as a teaching assistant giving lab sessions in programming languages such as C++, Java, and Prolog and, classes on data/file structures.

Application Engineer (November 2002 – November 2003) Cairo, EGYPT.
▪ Advanced Technologies Co.

Design, development and testing of multi-purpose applications: Using Visual C and Java | Project and team management duties

HONORS & AWARDS

PhD 3-Year Full Scholarship Bonn, Germany.
▪ June 2009 – May 2012: B-IT Research School

Partial Research Scholarship Bonn, Germany.
▪ November 2007 – May 2009: GLOWA Volta Project – ZEF research institute (University of Bonn)

MA 2-Year Full Scholarship Italy, Germany.
▪ July 2005 – July 2007: Erasmus Mundus scholarship awarded by the European Union (Double degree master’s program)

Honor for B-IT Media Informatics Alumni Bonn, Germany.
▪ 2008: Placed among the top three graduates.

Letter of Admiration from the Suez Canal University Ismailia, Egypt.
▪ 2001: Ranked the 1st on my educational year edition.

PUBLICATIONS

- M. El-Gayyar, H. Elyamany, T. Gaber, and A. Hassanien, "Social Network Framework for Deaf and Blind People based on Cloud Computing", Computer Science and Information Systems (FedCSIS), Krakow, Poland, 8 - 11 September, 2013.
- Y. Leng, M. El-Gayyar and A. B. Cremers. "QWSMO-Lite: A QoS-Aware Ontology for Web Service Annotation". To be published in: Proceedings of the International Conference on Management and Service Science (MASS 2012), Shanghai, China, 2012.
- M. El-Gayyar, Y. Leng and A. B. Cremers. "Distributed Management of Scientific Workflows in SWIMS". In Proceedings of the 9th International Symposium on Distributed Computing and Applications to Business Engineering and Science (DCABES), pages 327 –331, August 2010.
- Y. Leng, M. El-Gayyar and A. B. Cremers. "Semantics Enhanced Composition Planner for Distributed Resources". In Proceedings of the 9th International Symposium on Distributed Computing and Applications to Business Engineering and Science (DCABES), pages 61 –65, August 2010.
- Y. Leng, M. El-Gayyar and S. Shumilov. "Semantically Enriched Integration System for Heterogeneous Web Services". IADIS International Conference WWW/Internet 2009, November 19-21, 2009, Rome, Italy.
- M. El-Gayyar, Y. Leng, S. Shumilov and A. B. Cremers. "New Execution Paradigm for Data Intensive Scientific Workflows". In proceedings of the 3rd IEEE International Workshop on Scientific Workflows July 10, 2009, Los Anglos, USA.
- I. Markovic, S. Jain, M. El-Gayyar, A. B. Cremers, and N. Stojanovic. "Modeling and Enforcement of Business Policies on Process Models with Maestro", Proceedings of the Demo Session at the 6th European Semantic Web Conference (ESWC), Greece, June 2009.
- I. Markovic, S. Jain, M. El-Gayyar and A. B. Cremers. "Modeling and Enforcement of Business Policies and Rules in Semantic Business Process Modeling", Communications of SIWN, Vol. 7, May 2009, pp. 7-13.
- I. Markovic, S. Jain, M. El-Gayyar, and A. B. Cremers, "Modeling and Enforcement of Business Policies and Rules in Semantic Business Process Modeling", In Proceedings of 3rd International Conference on Adaptive Business Information Systems (ABIS), Leipzig, Germany, March 2009.
- S. Shumilov, Y. Leng, M. El-Gayyar, and A. B. Cremers. "Distributed Scientific Workflow Management for Data-Intensive Applications". In Proceedings of the 12th IEEE International Workshop on Future Trends of Distributed Computing Systems (Kunming, China, October 21-23, 2008), FTDCS '08.
- M. El-Gayyar, S. Alda, and A. B. Cremers. "Towards a user-oriented environment for web services composition". In Proceedings of the 4th international Workshop on End-User Software Engineering (Leipzig, Germany, May 12 - 12, 2008). WEUSE '08. ACM, 81-85.

CO-SUPERVISING

Master's Thesis: 2010
"Index Webservice fuer ein Grid", Frank
Markgraefe, Bonn University.

Master's Thesis: 2009
"Semi-automatic Validation of Semantic Business
Process Model", Sukesh Jain, Bonn University

CO-REVIEWING

- 012 International Conference on Cyber-Enabled Distributed Computing and Knowledge Discovery - *CyberC 2012*

TEACHING

Undergraduate Courses:

Ismailia, Egypt.

- Faculty of Computers and Informatics, Suez Canal University
- Software Engineering, Object-Oriented Programming, Project Management (2014)
- Introduction to Programming (C/C++), Concepts of Programming Languages, Fundamentals of Multimedia (2013/2014)
- Human Computer Interaction, Logic Programming (2013)
- Computer Architecture and Assembly Language, Fundamentals of Multimedia, Advanced Programming (2012/2013)

Postgraduate Courses:

Ismailia, Egypt.

- Faculty of Computers and Informatics, Suez Canal University
- Software Engineering, Object-Oriented Programming (2014)
- Computer Architecture and Assembly Language (2013/2014)
- Object-Oriented Programming (2013)

Seminar: Advanced Topics in Information Management (20/10-11-12)

Bonn, Germany.

- The Institute for Computer Science at Bonn University.
- With the advent of Grid and service-oriented technologies, scientific workflows have been introduced in response to the increasing demand of researchers for assembling diverse, highly-specialized applications, allowing them to exchange large datasets in order to accomplish a complex scientific task. The seminar discusses major topics in the area of distributed systems over Grid including the advanced concepts of Grid systems, their distributed solutions for data management, how does semantics-aware Grid system work and their current applications for Workflows management

Project Group: Information Systems (2009/2010)

Bonn, Germany.

- The Institute for Computer Science at Bonn University.
- Seminar and lab work on Grid systems and scientific workflows.

Course: Information System Engineering (2008/2009)

Bonn, Germany.

- The Institute for Computer Science at Bonn University.
- The course explores the design and architecture of large information systems, such as those found behind commercial web sites, scientific servers, or data clusters. The course aims at providing an in depth review of the evolution and state of the art of the tools and methodologies used to build large information systems. In particular, the role of middleware, databases, programming languages, and distributed systems are discussed in the light of the new requirements imposed by the internet and the large amounts of data involved.

Course: Object Oriented Software Construction (2008)

Bonn, Germany.

- Bonn-Aachen International Center for Information Technology (B-IT).
- This course is intended for Media Informatics Master Students of the B-IT institute. It aims to teach fundamental object-oriented concepts and techniques for the design and implementation of complex and changing software systems. It is intended for graduate students, focusing on UML and software engineering methods, covering all development phases from requirements, elicitation to testing.

Programming Languages and other courses (2001 – 2005)

Ismailia, EGYPT.

- Faculty of Computers & Informatics, Suez Canal University.
- C++, JAVA, Pascal, Prolog, Visual Prolog,
- Data Structure, File Structure, and Computer Networks.

SKILLS**LANGUAGES**

- **Arabic:** mother tongue.
- **English:** proficient.
- **German:** good.

PROGRAMMING

- JAVA
- C/C++, C#
- Python
- Prolog
- HTML / CSS / PHP
- Assembly

Others

- Hadoop (Big data analysis)
- Databases: Relational / XML
- OS: Windows, Linux

HOBBIES

- Reading
- Cycling
- Traveling

REFERENCES

- All certificates, proves and documents are available upon request.