

HANAN MOHAMED MOUSSA

Location: Cairo, Egypt

Assistant Professor in Information Systems

Information Systems Assistant Professor and Professional IT Expert with more than 30 years of insightful experience...

Acknowledged Academic Professor | Shaping Delivery Management

NOTEWORTHY PROFESSIONAL CONTRIBUTIONS

*~ Acknowledged Assistant Professor in Information Systems & Software Engineering~
~Significant contributor in quality delivery of project assignments throughout professional tenure ~*

AREAS OF EXPERTISE

*Undergraduate and post-graduate Teaching
Post-graduate Thesis Supervision
Academic qualitative and quantitative Research*

*Research areas in:
Software Project/Product Management (Traditional and Agile)
Software Development Methodologies
Software Engineering
Management Information Systems
Quality Assurance & Control Frameworks
Software Metrics & Estimation
Process Management & Improvement*

*Academic Activities such as
Curriculum quality improvement
Summer internship organization
Employment skills improvement for students*

EXECUTIVE SYNOPSIS

- Combining both academic and professional expertise in Information Systems & Software Engineering
- Currently an Assistant Professor, Management Department - School of Business - The American University in Cairo
- Acknowledged for high-quality content and sophisticated pedagogy
- Articulate communicator with ability to blend technical expertise with interpersonal skills while interacting with students

EDUCATION

- PhD in Information Systems - Faculty of Computers and Artificial Intelligence, Cairo University
Thesis topic is "Effort Estimation in Software Projects".
- M.Sc. in Computer Science - American University in Cairo
- Diploma in Computer Science (Honors) - CACE, American University in Cairo
- B.A. in Business Administration (High Honors) - American University in Cairo

ACADEMIC CAREER GRAPH

**THE AMERICAN UNIVERSITY IN CAIRO
SCHOOL OF BUSINESS - THE MANAGEMENT DEPARTMENT
Assistant Professor - Information Systems**

Courses Taught

Introduction to Management Information Systems
IT Project Management
Quality Assurance & Software Testing
Advanced Topics in Information Systems
Database Management
Enterprise Information Systems

Courses Taught

Undergraduate Courses

Management Information Systems
IS Project Management
Information Systems Fundamentals
Professional Software Engineering Practices
Software Engineering
Requirements Engineering
Database Management
Human Computer Interaction
File Organization & Retrieval
Management Fundamentals
Introduction to Economics

Post-graduate Courses

Advanced Information Systems Engineering - M.Sc. Level
Requirements Engineering - M.Sc. Level
Software Management - M.Sc. Level
IS Development Methodologies - Ph.D. Level

Theses Supervision

Measuring Similarity between Requirements - M.Sc.
Enhancing Agile Projects Estimation - M.Sc.
Agile Projects Management for Critical Systems Development - M.Sc.
Automated Anomaly Detection in DevOps using Machine Learning - M.Sc.
Measuring Credibility Score for Trusted Sources
Requirements Elicitation & Prioritization for Software Products - In progress of Thesis writing - Ph.D.

Arab Academy for Science, Technology & Maritime Transport

Undergraduate Courses

- Introduction to Programming with C Language
- Database Management

Training Courses Given

American University in Cairo - CACE

- Database Fundamentals
- Information Systems Fundamentals
- eGovernment services
- Management Fundamentals
- Change Management

HP Enterprise Services Egypt

- Project management
- Projects Metrics & Estimation
- Quality management
- Service Operations Management
- Process Improvement

Global Knowledge

- Project Management Fundamentals
- Project Management Professional Boot Camp
- IT Risk Management
- IT Project Management
- Project Portfolio Management
- Agile Project Management
- Project Management using Scrum
- Critical Thinking
- IT Program Management

DXC Technology

- Agile Project Management
- Estimation in Agile Projects
- Software Development Lifecycle Models
- Presentation skills
- Agile Software Development and DevOps

PUBLICATIONS

1. **Moussa, H.**, Galal-Edeen, G. H., and Kamel, A. (2009) “Enhancing Software Sizing Adjustment Factors.” Fourth International Conference on Intelligent Computing & Information Systems – ICICIS, ACM, Cairo, Egypt. (**Awarded the session best-presented paper prize**).
2. **Moussa, H.**, Galal-Edeen, G. H., and Kamel, A. (2009). "Building an Effort Estimation Model for Software Projects." International Journal of Intelligent Control and Systems **14**(4): 244-258.
3. **Moussa, H.**, Galal-Edeen, G.H., and Kamel, A. (2010). Applying an Estimation Framework in Software Projects-A local Experience. The 7th International Conference on Informatics and Systems - INFOS 2010_Cairo, Egypt.
4. **Moussa, H.**, Galal-Edeen, G.H., and Kamel, A. (2010). “Lessons Learned from Building an Effort Estimation Model for Software Projects.” The International Journal of Software Engineering_3(2): 3-20.
5. Ezat, E., Kamel, A., **Moussa, H.** and Mihany, F. (2016). “A Framework to Measure Similarity between Requirements.” The 10th International Conference on Informatics and Systems - INFOS 2016_Cairo, Egypt: 334-335.
6. Ilyas, M., Kamel, A., and **Moussa, H.** and Mihany, F. (2016). “An Automated System for Measuring Similarity between Requirements.” The 2nd Africa and Middle East Conference: 46-51.
7. Gaffar, Nisma. Kamel, A., and **Moussa, H.** (2018) “A Proposed Framework for Enhancing Story Points in Agile Software Projects.” Indian Journal of Science and Technology. ISSN 0974 -5645. Available at: <http://www.indjst.org/index.php/indjst/article/view/128780>
8. Mounir, M., Salah, A., Kamel, A. and **Moussa, H.** (2020) “Framework to Measure Agile Software Process Effectiveness in Critical Systems Development”. Proceedings of the 2020 9th International Conference on Software and Information Engineering (ICSIE 2020). Association for Computing Machinery, New York, NY, USA, 25–32.
9. Gaber, A., Nour, M. and **Moussa, H.** (2021). “A Multi-dimensional Credibility Assessment for Arabic News Sources”. International Journal for Advanced Computer Science and Applications (IJACSA) – Volume 12 Issue 9. DOI:10.14569/IJACSA.2021.0120935.
10. Gaber, A., Nour, M. and **Moussa, H.** (2021) “SMAD: Text Classifications of Arabic Social Media Dataset for News Sources”. International Journal for Advanced Computer Science and Applications (IJACSA) – Volume 12 No 10. DOI:10.14569/IJACSA.2021.0121058.
11. Fawzy, A., Wassif, K. and **Moussa, H.** (2023). “Framework for Automatic Detection of Anomalies in DevOps.” Journal of King Saud University – Computer and Information Sciences – Volume 35 Issue 3.
12. **Moussa, H.** and Galal-Edeen, Galal H. (2023). “Design Thinking Using Qualitative Data Analysis and Machine Learning.” 13th International Conference on Information Communication and Management – ICICIM, AUC, Cairo, Egypt.

AWARDS

Awarded best Ph.D. Thesis for Information Systems in Cairo University of the year

Winning the 1st place in Process Improvement - Service Innovation Campaign - Application & Business Services - EMEA – HP Enterprise

CERTIFICATIONS

- ITIL Intermediate Service Design
 - ITIL Intermediate Service Operations
 - ITIL Foundation V.3.
 - Project Management Professional - PMP
 - IBM RS/6000 Solution Sales Certificate
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PROFESSIONAL EXPERIENCE

- DXC Technology - Digital Applications Operations Manager - 4 years
 - IT Worx - Gulf - Senior Project Manager - 1 year
 - CIB - Senior Project Manager - 2 years
 - HP - Senior Delivery Manager - 10 years
 - Raya IT - Projects Governance - 2 years
 - IBM - Systems Specialist- 7 years
 - IDSC - Quality Officer - 3 years
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Languages: English and Arabic
