

Emad Elbeltagi, M.Sc., Ph.D., P.Eng.
Professor



Summary

Dr. Emad Elbeltagi, is a professor of construction management. He received his Ph.D. in construction management from joint supervision between Mansoura University, Egypt and Waterloo University, Canada. Dr. Elbeltagi is a civil and Structural design engineer with specialist competence in the broad areas of Construction Management. Dr. Elbeltagi's current research and teaching interest is in the areas of resource management and cost analysis of civil infrastructure, artificial intelligence applications in civil engineering, and Multi-criteria decision analysis. He consults in the area of construction, and structural engineering.

- Strong research background. Authored and Co-authored more than 90 research papers. Published and presented in the reputed civil engineering journals and at civil engineering specializing conferences.
- Presented papers in a number of conferences and seminars in the USA, Canada, Mexico, Greece, Spain, Turkey, Thailand, Jordan, England, Hong Kong, Saudi Arabia and Egypt.
- Extensive research experience on construction management, site layout planning, resource management, repetitive and linear project planning and scheduling, cost estimating, asset and infrastructure management systems, multi-criteria decision analysis, and optimization using evolutionary algorithms.
- Expertise on construction management computer-related applications.
- Project/Construction Management, Planning and Co-ordination. Preparation of Tender Documents. Designing, Preparation of Bill of Quantities and Cost Estimates, etc.
- Teaching of many courses related to Construction Engineering and Management.
- Recipient of prestigious NSERC (Canada) post-doctoral fellowship.
- Recipient of the top cited article award for the paper "Comparison among Five Evolutionary-Based Optimization Algorithms" in the Journal of Advanced Engineering Informatics for the period 2005 – 2010 from Elsevier.
- Authored a chapter titled "Evolutionary Algorithms for Large-Scale Optimization in Construction Management." in a book titled "Metaheuristic Applications in Structures and Infrastructures," Elsevier Publisher.
- Author of the book titled: *Construction Site Layout Planning: Identifying, Sizing and Locating Temporary Facilities on Construction Sites*. ISBN: 978-3-659-54067-7, LAP LAMBERT Academic Publishing, Saarbrücken, Deutschland, Germany.

Education

Dec 1996 – Jan 2000: **Ph.D.** in Construction Engineering and Management, Joint supervision between University of Waterloo, CANADA and Mansoura University, Mansoura, EGYPT.

Dec 1990 – Jan 1993: **M.Sc.** in Construction Engineering and Management, Mansoura University, Mansoura, EGYPT.

Oct 1981 – Jun 1986: **B.Sc.** in Civil Engineering, grade: **Very Good with Honor's Degree**, **83.18%**, rank = **6/482**.

Professional Experience

Mar 2011 – Present: **Professor** – Structural Engineering Department, Faculty of Engineering, Mansoura University, EGYPT.

Feb 2016 – Now: **Vice Dean** – Mansoura Higher Institute for Engineering and Tehnology, Mansoura, Egypt.

April 2014 – Dec 2015: **Project Manager** – Hazim Consulting Company, Jeddah, Saudi Arabia, Contractors Classification Project at the Ministry of Municipal and Rural Affairs – Contractors Classification Agency, Riyadh, Saudi Arabia.

Jan 2012 – Apr 2014: **Executive Director** – Construction and Building Engineering Program (Credit hours' system), Mansoura University, EGYPT.

Nov 2009 – Nov 2011: **Director** – Center of Studies, Research and Engineering Consultancy, Mansoura University, EGYPT.

Sep 2005 – Mar 2011: **Associate Professor** – Structural Engineering Department, Faculty of Engineering, Mansoura University, EGYPT.

Sep 2008 – Dec 2008: **Visiting Research Associate Professor** – Faculty of Engineering, Waterloo University, Ontario, Canada.

Feb 2000 – Aug 2005: **Assistant Professor** – Structural Engineering Department, Faculty of Engineering, Mansoura University, EGYPT.

Jul 2005 – Aug 2005: **Post-Doctoral Fellow** – Faculty of Engineering, Waterloo University, Ontario, Canada.

Aug 2003 – Dec 2004: **Research Associate** – Faculty of Engineering, Waterloo University, Ontario, Canada.

Oct 2001 – May 2003: **Project Management Specialist** (part-time) at OPTTEAM Project Management Consultants Inc., Ontario, Canada (www.opteam1.com).

Aug 2001 – Jul 2003: **NSERC's Post-Doctoral Fellow** – Faculty of Engineering, Waterloo University, Ontario, Canada.

Jul 2000 – Sep 2000: **Post-Doctoral Fellow** – Faculty of Engineering, Waterloo University, Ontario, Canada.

Jul 1997 – Aug 1999: **Visiting Scholar** – Faculty of Engineering, Waterloo University, Ontario, Canada.

Oct 1993 – Jan 2000: **Assistant Lecturer** – Structural Engineering Department, Faculty of Engineering, Mansoura University, EGYPT.

Oct 1988 – Sep 1993: **Research Assistant** – Structural Engineering Department, Faculty of Engineering, Mansoura University, EGYPT.

Jan 1988 – Sep 1988: **Civil/Structural Engineer** (Full-time) – Dr. Mahmoud Elgamal Consulting Office, Mansoura, EGYPT.

Professional Affiliations

- **Member** of the Egyptian Engineers Syndicate
- **Member** of the American Society of Civil Engineers (ASCE)
- **Member** of the Professional Engineers Ontario (PEO)

Professional Activities

- Member of the editorial board of the “Scientific Innovations in Civil Engineering” Journal Since July 2015, published by the Department of Civil Engineering, the Islamic Azad University, Central Tehran Branch, Iran.
- Member of the higher consultancy committee for examining and certifying Construction Project Management consultants at the Egyptian Engineers Syndicate (Dec 2012 - now).
- Chairman of the Ramshackle Building Inspection Committees, Dakahlia Governorate (July 2009 – May 2011).
- Member of the national committee of the Code of Practice for Project Management, Housing and Building Research Center, Egypt (Dec 2012 - now).
- Member of the national permanent committee of the Code of Practice for Building Information Modeling, Housing and Building Research Center, Egypt (May 2015 - now).
- External Reviewer for the Construction Engineering and Utilities Post-Graduate Program, Faculty of Engineering, Zagazig University.
- Member of the referees’ committee for “Osman Ahmed Osman Prize for the Improvement of the Egyptian Construction and Contracting Industry”, Academy of Scientific Research and Technology, Egypt (March 2013 - now).
- Member of the Committee for setting the publishing rules for the Mansoura University Engineering Science Journal (February 2012 - April 2014).
- Member of the committee for reviewing the bylaws of the Center of Studies, Research and Engineering Consultancy, Mansoura University, EGYPT.
- Member of the Committee for improving the overall locally and internationally ranking of the Faculty of Engineering, Mansoura University (July 2012 - April 2014).
- Member of the steering committee for the Mechatronics and Medical Engineering programs, Credit hours’ system, Faculty of Engineering, Mansoura University (September 2013 - April 2014).
- Member of the Audit Committee for reviewing the documents of the construction, specialized and maintenance projects at Mansoura University before bidding stage (July 2012- April 2014).

- Member of the Scientific Committee of the “First International Conference for Sustainable Construction and Project Management”, ICSCPM 2016, Housing and Building Research center (HBRC), March 29-31, 2016, Cairo, Egypt.
- Member of the Scientific Committee of the “Ninth Alexandria International Conference on Structural and Geotechnical Engineering”, AICSGE 9, Structural Eng. Dept., Alexandria University, Dec 19-21, 2016, Alexandria Egypt.
- External examiner for more than forty doctoral and master thesis in different Egyptian universities.
- Referee for the promotion of Faculty members (The Permanent Scientific Promotion Committee for Associate Professors and Professors).
- Referee for the promotion of Faculty members (The Permanent Scientific Promotion Committee for Associate Professors and Professors) – Alazhar University.
- **Reviewer for the following journals:**
 - Journal of Construction Engineering and Management, American Society of Civil Engineers.
 - Journal of Computing in Civil Engineering, American Society of Civil Engineers.
 - Journal of Infrastructure Systems, American Society of Civil Engineers.
 - Journal of Construction Management and Economics, Taylor & Francis Group.
 - Computer-Aided Civil and Infrastructure Engineering Journal, Wiley-Blackwell Publishing.
 - Journal of Automation in Construction, Elsevier Publishing.
 - Journal of Mathematics and Computers in Simulation, Elsevier Publishing.
 - Transportation Research Part C: Emerging Technologies, Elsevier Publisher.
 - Advanced Engineering Informatics, Elsevier Publisher.
 - Journal of King Saud University: Engineering Sciences (JKSUES), Elsevier Publisher.
 - Housing and Building National Research Center (HBRC) Journal, Elsevier Publisher.
 - Operational Research: An International Journal (ORIJ), Springer Publishing.
 - Journal of Engineering with Computers, Springer.
 - Canadian Journal of Civil Engineering.
 - IEEE Transactions on Evolutionary Computation, ScholarOne.
 - Journal of Advances in Structural Engineering, Multi-Science Publishing.
 - Engineering, Construction and Architectural Management Journal, Emerald publishing.
 - Mathematical Problems in Engineering, Hindawi Publishing.
 - Journal of Applied Mathematics, Hindawi Publishing.
 - Advances in Artificial Intelligence, Hindawi Publishing.
 - Computational Intelligence and Neuroscience, Hindawi Publishing.
 - African Journal of Business Management (AJBM).

- Journal of Civil Engineering and Construction Technology (JCECT).
- Environmental Engineering and Management Journal, Technical University of IASI, Romania.
- Emirates Journal of Engineering Research (EJER), United Arab Emirates University.
- Sustainable Cities and Society Journal, Elsevier Publisher.
- Journal of Building Engineering, Elsevier Publisher.
- Journal of Cogent Engineering, Taylor & Francis.
- Structural Survey: Journal of Building Pathology and Refurbishment, Emerald Group Publishing.
- Journal of Artificial Intelligence & Data Mining (JAIDM), Shahrood University of Technology, Shahrood, Iran.
- Operations Research & Decision Theory, OPSEARCH, the official journal of the Operational Research Society of India (ORSI), Springer.
- Ain Shams Engineering Journal, Elsevier Publisher.
- Mansoura Engineering Journal (MEJ), Mansoura University.
- The Egyptian International Journal of Engineering Sciences & Technology, Zagazig University.
- Engineering Research Journal, Minoufyia University.
- Engineering Research Journal, Helwan University.
- **Reviewer for the following conferences:**
 - 7th Mansoura International Engineering Conference, 2010.
 - Construction Research Congress (CRC), ASCE, 2010.
 - 13th International Colloquium in Structural and Geotechnical Engineering, 2009.
 - 2nd International Conference on Construction in Developing Countries (ICCIDC-II), "Advancing and Integrating Construction Education, Research & Practice", 2010.
 - 3rd International / 9th Construction Specialty Conference, CSCE, Ottawa, Ontario, Canada, 2011.
 - 30th International Symposium on Automation and Robotics in Construction and Mining (ISARC 2013), Aug. 11-15, 2013, Montreal, Canada.
 - 93rd TRB Annual Meeting, Jan. 12-16, 2014, Washington, DC, USA.
 - Eighth Alexandria International Conference on Structural and Geotechnical Engineering, AICSGE8, 14-16 April, 2014, Alexandria, Egypt.
 - ICSC15, the CSCE International Construction Specialty Conference, Vancouver, British Columbia, Canada, 2015.
 - 14th International Conference on Structural and Geotechnical Engineering, Sustainable Infrastructure: from Research to Practice, Dec 20-22, 2015, Ain Shams University, Cairo, Egypt.

- First International Conference for Sustainable Construction and Project Management, ICSCPM 2016, Housing and Building Research center (HBRC), March 29-31, 2016, Cairo, Egypt.
- **Book Review:**
 - “Repetitive Projects Scheduling: Theory and Methods,” Elsevier Insights Series, Jun 2013.
- **Reviewer for the following agencies:**
 - ITIDA - Information Technology Industry Development Agency, Egypt.
 - STDF – Science and Technology Development Fund, Egypt.
 - Kentucky Science and Engineering Foundation, Kentucky, USA.
- **Referee for the promotion of Faculty members (The Permanent Scientific Promotion Committee for Associate Professors and Professors):**
 - Review the papers of three members to be promoted to Associate Professor (Dec 2012 - now).
 - Review the papers of two members to be promoted to Full Professor (Jan 2013 - now).
- **Referee for the promotion of Faculty members (The Permanent Scientific Promotion Committee for Associate Professors and Professors – Alazhar University):**
 - Review the papers of one member to be promoted to Professor (May 2016 - now).

Continuing Education and Personal development

- Training workshop in “Effective Presentation Skills” for 20 hours (4 days) from 24/04/05-28/04/05, Mansoura University, Mansoura, Egypt.
- Training workshop in “Modern Directions in Teaching” for 20 hours (4 days) from 22/05/05-25/05/05, Mansoura University, Mansoura, Egypt.
- Training workshop in “Management of Scientific Research” for 20 hours (4 days) from 12/06/05-15/06/05, Mansoura University, Mansoura, Egypt.
- Training workshop in “University Legal and Financial Aspects” for 15 hours (3days) from 2/07/06-4/07/06, Mansoura University, Mansoura, Egypt.
- Training workshop in “The Credit-Hour System” for 15 hours (3 days) from 27/08/06-29/08/06, Mansoura University, Mansoura, Egypt.
- Training workshop in “Use of Technology in Teaching” for 15 hours (3 days) from 3/09/06-5/09/06, Mansoura University, Mansoura, Egypt.
- Training workshop in “Student Evaluation and Examination Techniques” for 15 hours (3 days) from 21/01/07-23/01/07, Mansoura University, Mansoura, Egypt.
- Training workshop in “Time and Meeting Management” for 15 hours (3 days) from 17/08/08-19/08/08, Mansoura University, Mansoura, Egypt.
- Training workshop in “Organizing Scientific Conferences” for 15 hours (3 days) from 01/02/09-03/02/09, Mansoura University, Mansoura, Egypt.
- Training course in “Service Science Management and Engineering “SSME” for 40 hours (5 days) from 8/11/2009-12/11/2009, Supreme Council of Universities (SCU), Cairo, Egypt.

- Training workshop in “Application of Academic Standards on Programs and Curricula” for 15 hours (3 days) from 16/1/2010-18/1/2010, Mansoura University, Mansoura, Egypt.
- Training of Trainees (TOT) workshop in “Building Information Modeling Concepts” for 3 days from 9/6/2014-11/6/2014, Northumbria University, Newcastle, England.
- Training of Trainees (TOT) workshop in “Integrated Project Delivery” for 3 days from 19/8/2015-21/8/2015, Twente University, Enscheda, Netherland.

Publications, Technical Reports & Presentations (Most Recent)

Refereed Journal Publications

1. Kaloop, M., Hu, J.W. and **Elbeltagi, E.** (2016). “Time-Series and Frequency-Spectrum Correlation Analysis of Bridge Performance based on Real-Time Strain Monitoring System.” *International Journal for Geo-Information*, MPDI, Vol. 6, No. 5, 61; doi:10.3390/ijgi5050061,15 pages.
2. **Elbeltagi, E.**, Ammar, M., Sanad, H. and Kassab, M. (2016). “Overall Multiobjective Optimization of Construction Projects Scheduling Using Particle Swarm.” *Journal of Engineering, Construction and Architectural Management*, Vol. 23, No. 3, pp. 265-282.
3. Kaloop, M., Hu, J.W. and **Elbeltagi, E.** (2016). “Evaluation of High-speed Railway Bridge based on Nondestructive Monitoring System.” *Applied Science Journal*, MPDI, Vol. 6, No. 1, 24, doi:10.3390/app6010024, 13 pages.
4. **Elbeltagi, E.**, Kaloop, M., and Elnabawy, M. (2015). “GPS-Monitoring and Assessment of Mansoura Railway Steel-Bridge based on Filter and Wavelet Methods.” *Asian Journal of Earth Sciences*, Academic Journals Inc., DOI: 10.3923/ajes.2015, Vol. 8, No. 4, pp. 114-126.
5. Kaloop, M., **Elbeltagi, E.**, and Elnabawy, M. (2015). “GPS-Based Bridge Health Monitoring with Wavelet Principal Component and Spectrum Analysis: Case Study Mansoura Bridge-Egypt.” *Journal of Performance of constructed facilities (ASCE)*, Vol. 29, No. 3, pp. 04014071-1:04014071-10.
6. El-Ghandour, H. and **Elbeltagi, E.** (2014). “Optimal Groundwater Management Using a New Multi-Objective Particle Swarm Evolution Strategy.” *Journal of Hydrologic Engineering*, ASCE, Vol. 19, No. 6, pp. 1141-1149.
7. Elnabawy, M, Kaloop, M. and **Elbeltagi, E.** (2013). “Talkha Steel Highway Bridge Monitoring and Movement Identification Using RTK-GPS Technique.” *Journal of the International Measurement Confederation (Measurement)*, Elsevier Publisher, Vol. 46, No. 10, pp.4282-4292.
8. **Elbeltagi, E.**, Hosny, O, Elhakeem, A., Abdul-Razek, M., and Saeed, M. (2012). “Fuzzy Logic Model for Selection of Vertical Formwork Systems.” *Journal of Construction Engineering and Management*, ASCE, Vol. 138, No. 7, pp. 832-840.
9. **Elbeltagi, E.**, and Dawood, M. (2011). “Integrated Visualized Time Control System for Repetitive Construction Projects.” *Automation in Construction Journal*, Elsevier Science, Vol. 20, No. 7, pp. 940-953.

Conference Publications

10. **Elbeltagi, E.**, and Elmasoudi, I. (2016). "Condition Assessment and Deterioration Modeling of Water Pipelines Networks." *Proceedings of the Zaytoonah University 3rd International Conference on Environmental Design and Innovation, ZEC2016* (CD-ROM), May 16-18, 2016, Amman, Jordan, paper #ZEC2016-91768141.
11. **Elbeltagi, E.**, Kaloop, M. and Elnabwy, M. (2015). "GPS – Based Bridge Health Monitoring With Neural Networking Auto –Regressive: case study Talkha steel Highway Bridge." *Proceedings of the Regional Conference on Surveying and Development 2015*, Oct. 3-6, 2015, Sharm El-Shikh, Egypt.
12. Dawood, M., **Elbeltagi, E.**, and Elkassas, E. (2014). "GIS-Based Automated Construction Project Cost Control." *Proceedings of the Ninth International Conference on Engineering Computational Technology, B.H.V. Topping and P. Ivanyi, (Editors), Civil-Comp Press, Stirlingshire, Scotland*, Paper no. 0123456789, Sep. 2-5, 2014, Naples, Italy, 16 pages.
13. **Elbeltagi, E.**, Kaloop, M. and Elnabwy, M. (2014). "Structural Health Monitoring System Using GPS for Sustainable Bridges." *Proceedings of the Zaytoonah University International Engineering Conference on Sustainability: Design and Innovation 2014 (ZEC Sustainability 2014)* (CD-ROM), May 13-15, 2014, Amman, Jordan, paper #1569877075.
14. Suad, H., **Elbeltagi, E.**, Hosny, M. (2013). "Highway Environmental Pollution Index (HEPI)." *17th IRF World Meeting*, Nov. 10-14, 2013, Riyadh, Kingdom of Saudi Arabia, Paper no. 0259-000236, PP. 1-13.
15. **Elbeltagi, E.**, Kaloop, M., and Elnabawy, M. (2013). "Monitoring and Assessment of Mansoura Railway Steel Bridge using RTK-GPS Technique." *2nd Joint International Symposium on Deformation Monitoring (JISDM)*, Sep. 9-11, 2013, Nottingham, UK, Paper No.19, 6 pages.

Masters Theses Supervised to Completion

1. Dawood, M. (2003) "Construction Project Control." M.Sc. Thesis, Mansoura University, Mansoura, Egypt (Co-supervised with Prof. A. Hasanein and Prof. A. Eldosouky).
2. Al-Taweel, S. (2007) "Repetitive Projects Scheduling and Optimization Using Genetic Algorithms." Arab Academy for Science Technology and Maritime Transport (AASTMT), Alexandria, Egypt (Co-supervised with Prof. I. Abdelrasheed and Prof. E. Elkassas).
3. Elgamal, A. (2008) "Parametric Cost Estimate of Maintenance Works for Educational Buildings using Artificial Neural Networks." Arab Academy for Science Technology and Maritime Transport (AASTMT), Cairo, Egypt (Co-supervised with Prof. M. Emam).
4. El-Fitory, A. (2008) "Predicting Conceptual Cost of Libyan Highway Projects Using Artificial Neural Network." Arab Academy for Science Technology and Maritime Transport (AASTMT), Cairo, Egypt (Co-supervised with Prof. R. Abdel-Razek).
5. El-Abbasy, M. (2008) "Selection of Optimal Vertical Formwork System in Egypt Using Fuzzy Logic." Arab Academy for Science Technology and Maritime Transport (AASTMT), Cairo, Egypt (Co-supervised with Prof. M. Emam).
6. El-Agroudy, M. (2008) "A Fuzzy Model for Contractor Selection in the Egyptian Construction Industry." Arab Academy for Science Technology and Maritime Transport (AASTMT), Cairo, Egypt (Co-supervised with Prof. M. Emam).
7. السبيعي، فلاح (٢٠٠٩) "أراء واتجاهات العاملين حول الخصخصة بالتطبيق على وزارة الكهرباء والماء بدولة الكويت" كلية الهندسة – جامعة المنصورة، المنصورة، مصر.

(اشراف مشترك مع د. صلاح البجلاتي).

8. Wefki, H. (2011) "Selecting an Appropriate Excavation Support System in Egypr Using Fuzzy AHP." Arab Academy for Science Technology and Maritime Transport (AASTMT), Cairo, Egypt (Co-supervised with Prof. M. Emam).
9. المطيرى، زيد (٢٠١١) "دراسة عوامل نجاح تطبيق الهندسة القيمة في مشروعات التشييد بدولة الكويت" كلية الهندسة – جامعة المنصورة، المنصورة، مصر. (اشراف مشترك مع د. محمود المليجي).
10. Salama, Y. (2011) "Predicting Variability in Construction Cost Estimating." Arab Academy for Science Technology and Maritime Transport (AASTMT), Cairo, Egypt (Co-supervised with Prof. A. Sanad).
11. Elkalla, I. (2011) "Scheduling of Non-Deterministic Activities Using Fuzzy Logic." Mansoura University, Mansoura, Egypt (Co-supervised with Prof. M. Elshikh).
12. Elborollocy, H. (2012) "Development of a Conceptual Web-Based Construction Coordination Model." Arab Academy for Science Technology and Maritime Transport (AASTMT), Cairo, Egypt (Co-supervised with Prof. M. Emam).
13. Eid, M. (2012) "Multi-Objective Repetitive Activities Projects Scheduling Using Genetic Algorithms." Arab Academy for Science Technology and Maritime Transport (AASTMT), Cairo, Egypt (Co-supervised with Prof. M. Emam).
14. El-Maallawy, N. (2013) "A Fuzzy Model for Estimating Project Duration in the Egyptian Construction Industry." Arab Academy for Science Technology and Maritime Transport (AASTMT), Cairo, Egypt (Co-supervised with Prof. M. Emam and Prof. A. Sanad).
15. Elbeltagi, I.A. (2013) "Integrated Condition Assessment for Sewer Pipelines." Structural Engineering Department, Mansoura University, Mansoura, Egypt, (Co-supervised with Dr. M. Dawood).
16. Elnabawy, M.T. (2014) "Bridges Health Monitoring using GPS and Optimizing of Bridges Deck Maintenance using Genetic Algorithms." Structural Engineering Department, Mansoura University, Mansoura, Egypt, (Co-supervised with Dr. M. Kaloop).
17. Elsabaa, M. (2014) "Risk Assessment in Lean Construction Projects." Structural Engineering Department, Mansoura University, Mansoura, Egypt, (Co-supervised with Dr. M. Elshikh).
18. Eldiasty, A. (2014) "Multi Objective Optimization of Pavement Maintenance Using Genetic Algorithms." Structural Engineering Department, Mansoura University, Mansoura, Egypt, (Co-supervised with Dr. M. Ammar).
19. Alaryan, A. (2014) "Causes and Effects of Change Orders on Construction Projects in Kuwait." Structural Engineering Department, Mansoura University, Mansoura, Egypt, (Co-supervised with Dr. M. Dawood).
20. El-Ghorry, A. (2015) "Delay Analysis Methodologies and the factors affect its selection." Structural Engineering Department, Mansoura University, Mansoura, Egypt, (Co-supervised with Dr. A. Elhalawany).
21. Darwish, A. (2015) "Factors Affecting Construction Labor Productivity in Saudi Arabia." Master of Engineering, Civil Engineering Department, Helwan University, Mattaria, Egypt, (Co-supervised with Dr. A. Elsamadony).

22. Abass, H.A. (2015) "Developing a Computerized Framework for Applying Value Engineering In Construction Projects," Structural Engineering Department, Mansoura University, Mansoura, Egypt, (Co-supervised with Dr. M. Youssef).
23. الزهيري، أشرف (٢٠١٦) "أساليب المتابعة والتحكم فى مشاريع البنية التحتية" ماجستير الهندسة – قسم الهندسة المدنية - كلية الهندسة بالمطرية – جامعة حلوان، القاهرة، مصر.
(اشراف مشترك مع د. عادل السمدونى).
24. يسن، ابراهيم (٢٠١٦) "المخاطر فى مشروعات البنية التحتية (الأسباب والحلول)" ماجستير الهندسة – قسم الهندسة المدنية - كلية الهندسة بالمطرية – جامعة حلوان، القاهرة، مصر.
(اشراف مشترك مع د. عادل السمدونى).
25. Elmasoudi, I. (2016) "Condition Assessment and Optimal Repair Strategies of Water Networks Using Genetic Algorithms," Structural Engineering Department, Mansoura University, Mansoura, Egypt, (Co-supervised with Prof. A. Hasanein).
26. Eldwiny, M. "Artificial Neural Network Model for Forecasting Concrete Compressive Strength and Slump in Egypt," Civil and Architectural Construction Dept., Faculty of Industrial Education, Suez University, Suez, Egypt, (Co-supervised with Dr. A. Henigal and Dr. M. Serry).

Doctoral Theses Supervised to Completion

1. Dawood, M. (2011) "Integrated Visualized Framework for Repetitive Construction Projects Control." PhD Thesis, Mansoura University, Mansoura, Egypt (Co-supervised with Prof. A. Hasanein).
2. Sanad, H. (2011) "Optimum Analysis of Construction Projects with Nonlinear Cash Flow." PhD Thesis, Tanata University, Tanta, Egypt (Co-supervised with Prof. M. Ammar).
3. Tantawy, M. (2012) "Framework for Infrastructure Asset Management." PhD Thesis, Mansoura University, Mansoura, Egypt (Co-supervised with Prof. A. Hasanein).
4. Salem, D. (2012) "Predicting of Production Rate for Excavation Operation." PhD Thesis, Zagazig University, Zagazig, Egypt (Co--supervised with Prof. H. Hosny).
5. Almutairi, K. (2014) "Planning of Construction Sites and its Effect on the Quality of Construction Elements." PhD Thesis, Mansoura University, Mansoura, Egypt (Co-supervised with Prof. A. Hasanein).
6. Hosny, S. (2014) "Time-Cost-Quality-environmental Trade-off Optimization in Highway Construction." PhD Thesis, Zagazig University, Zagazig, Egypt (Co--supervised with Prof. H. Hosny).