

Abdel-Rahman Hedar



Personal Information

Full Name **Abdel-Rahman Hedar Abdel-Rahman Ahmed**
Sex **Male**
Date of Birth **March 13, 1972**
Nationality **Egyptian**
Status **Married**
Children **One daughter**

Education

2000 - 2004 **Doctor of Informatics (Computer Science)** Kyoto, Japan
Kyoto University
1994 - 1997 **Master of Science (Mathematics)** Assiut, Egypt
Assiut University
1989 - 1993 **Bachelor of Science (Mathematics)** Assiut, Egypt
Assiut University

Research Metrics

Google Scholar: **Citations = 1544, h-index = 18**
Scopus: **Citations = 747, h-index = 11**

Experience

2012 - Now **Associate Professor** Makkah, Saudi Arabia
Dept. of Computer Science, Jamoum University College, Umm Al-Qura University
2012 - Now **Associate Professor** Assiut, Egypt
Dept. of Computer Science, Faculty of Computing & Informatics, Assiut University
2018 - 2018 **Visiting Researcher** Kyoto, Japan
Graduated School of Informatics, Kyoto University
2012 - 2012 **Computer Science Department Head** Assiut, Egypt
Dept. of Computer Science, Faculty of Computing & Informatics, Assiut University
2010 - 2010 **Visiting Researcher** Kyoto, Japan
Graduated School of Informatics, Kyoto University
2005 - 2012 **Assistant Professor** Assiut, Egypt
Dept. of Computer Science, Faculty of Computing & Informatics, Assiut University
2005 - 2007 **Research Fellow** Kyoto, Japan
Graduated School of Informatics, Kyoto University
2005 - 2005 **Visiting Researcher** Ballarat, Australia
Centre for Informatics and Applied Optimization, University of Ballarat
2004 - 2005 **Assistant Professor** Assiut, Egypt
Dept. of Mathematics, Faculty of Science, Assiut University
2002 - 2004 **Teaching Assistant** Osaka, Japan
Information Science Dept., Osaka Kyoiku University
1997 - 2004 **Lecturer** Assiut, Egypt
Dept. of Mathematics, Faculty of Science, Assiut University
1993 - 1997 **Demonstrator** Assiut, Egypt
Dept. of Mathematics, Faculty of Science, Assiut University

Contact

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Languages

Arabic mother tongue
English fluency
Japanese fair

Date

October 6, 2018

Non-Teaching Experience

2018 - Now	Quality Assurance & Academic Development Consultant Deanship for Academic Development and Quality, Umm Al-Qura University	Makkah, Saudi Arabia
2012 - Now	Quality Assurance Coordinator & Chair of the ABET Committee Dept. of Computer Science, Jamoum University College, Umm Al-Qura University	Makkah, Saudi Arabia
2014 - 2016	Data Analysis Division Head The Strategic Plan (AAFAQ) for the Higher Education in Saudi Arabia, Umm Al-Qura University Executive Office	Makkah, Saudi Arabia
2009 - 2012	Director of Quality Assurance Unit Faculty of Computing & Informatics, Assiut University	Assiut, Egypt
2010 - 2012	Consultant Egyptian Cloud Computing Center	Assiut, Egypt
2009 - 2012	Executive Manager The Continuous Improvement and Qualifying for Accreditation Project, Faculty of Computing & Informatics, Assiut University	Assiut, Egypt
2009 - 2012	Co-Director Industrial Technology Transfer Unit, Assiut University	Assiut, Egypt
2008 - 2012	Trainer for E-Learning and Teaching Technologies Faculty and Leadership Development Center, Assiut University	Assiut, Egypt
2009 - 2012	Executive Committee Member Super Computing Center, Faculty of Science, Assiut University	Assiut, Egypt

Patents

1. "Smart surface-mounted hybrid sensor system, method, and apparatus for counting." US Patent 9,672,462.
2. "Systems and methodologies for performing intelligent perception based real-time counting." US Patent 20160259980A1.

Fields of Interest

Computational Intelligence, Global Optimization, Meta-heuristics, Machine Learning, Data Mining, Graph Theory, Bioinformatics, Natural Language Processing, Cloud Computing, Direct Search Methods, Fixed Point Theory.

Homepage

Assiut Univ.	http://www.aun.edu.eg/membercv.php?M_ID=4239
Umm Al-Qura Univ.	https://uqu.edu.sa/ahahmed/App/CV
Kyoto Univ.	http://www-optima.amp.i.kyoto-u.ac.jp/member/student/hedar/Hedar.html
Google Scholar	https://scholar.google.com/citations?user=ql9fuOIAAAAJ&hl=en
ResearchGate	http://www.researchgate.net/profile/Abdel-Rahman_Hedar
LinkedIn	https://www.linkedin.com/in/abdel-rahman-hedar-35528538/

Memberships

The Association for Computing Machinery (ACM)
The Institute of Electrical and Electronics Engineers (IEEE)
IEEE Computer Society
IEEE Computational Intelligence Society
Egyptian Syndicate of Scientific Professions

Projects, Grants and Awards

2018-Now	Visual Crowd Mining: Interpreting Challenging Crowd Scenes in Big Gatherings Saudi Arabia <i>Co-Principal Investigator</i> , Project 17-CRW-1-01-0003 funded by the Scientific Research Deanship at Umm Al-Qura University
2015-2018	Parallel Meta-Heuristics Toolbox for Continuous Global Optimization Saudi Arabia <i>Principal Investigator</i> , Project 13-INF544-10 funded by the National Science, Technology and Innovation Plan, King Abdul-Aziz City for Science and Technology
2015-2018	Short-Term Solar Radiation Prediction over Saudi Arabia using Numerical and Intelligent Systems Saudi Arabia <i>Co-Principal Investigator</i> , Project 13-ENE2373-10 funded by the National Science, Technology and Innovation Plan, King Abdul-Aziz City for Science and Technology
2015-2018	Design parallel meta-heuristics for graph domination problems Saudi Arabia <i>Principal Investigator</i> , Project 43508016 funded by the Scientific Research Deanship at Umm Al-Qura University
2014-2016	An online automatic system to estimate and predict the holy mosques crowd to manage potential risks Saudi Arabia <i>Co-Principal Investigator</i> , Project 13-ENE2373-10 funded the Transportation and Crowd Management, Center of Research Excellence, Umm Al-Qura University
2009-2012	Continuous Improvement and Qualifying for Accreditation Egypt <i>Executive Manager</i> , Project supported by Ministry of Higher Education
2009-2010	Industrial Technology Transfer Unit Egypt <i>Co-Manager</i> , Project supported by the European Egyptian Innovation Fund
2007-2008	High Availability Super Computing Lab Egypt <i>Team member</i> , Project supported by Universities Development Funding Project (UDFP), Ministry of Higher Education
2006-2006	Best Paper Awards in Computational Intelligence, Presentation and Innovation Japan <i>Best Paper Awards</i> , 2nd International Workshop on Computational Intelligence & Applications, organized by IEEE-SMC, Dec 15, 2006, Okayama
2004-2007	Teaching Mathematics through Thin-Client Technology Egypt <i>Team member</i> , Project supported by Ministry of Higher Education
2005-2007	Postdoctoral Fellowship in Kyoto University Japan <i>Research Fellow</i> , Japan Society for the Promotion of Science (JSPS)
2000-2004	Doctoral Scholarship in Kyoto University Japan <i>PhD Student</i> , Scholarship funded by Egyptian Government

Reference

Prof. Masao Fukushima

Faculty of Science and Engineering, Nanzan University, Nagoya, Japan
Email: fuku@ms.nanzan-u.ac.jp

Prof. Reda Ammar

Faculty of Engineering, University of Connecticut, Connecticut, USA
Email: reda@enr.uconn.edu

Prof. Nobuo Yamashita

Graduate School of Informatics, Kyoto University, Kyoto, Japan
Email: nobuo@i.kyoto-u.ac.jp

Volunteer Work

Editorial Board

Advances in Computing, Scientific and Academic Publishing, USA.
Journal of System Science and Information, (Chinese Academy of Sciences, China)
& (De Gruyter Academic Publishing, German)

Journal Referee

IEEE Transactions on Evolutionary Computation, IEEE Transactions on Systems, Man, and Cybernetics Part (B), IEEE Transactions on Neural Networks, Optimization Methods and Software, Mathematical Programming, Pacific Journal of Optimization, European Journal of Operations Research, Journal of Global Optimization, Computational Optimization and Applications, Applied Soft Computing, etc.

Publications

Book Chapters

1. **A. Hedar** and M. Fukushima, "Simplex coding genetic algorithm for the global optimization of nonlinear functions", In: Multi-Objective Programming and Goal Programming, T. Tanino, T. Tanaka and M. Inuiguchi (Eds.), Springer-Verlag, Berlin-Heidelberg, 2003, pp. 135-140.
2. Majig M.-A., **A. Hedar** and M. Fukushima, "A Hybrid Evolutionary Algorithm for Global Optimization", In: Optimization and Optimal Control, A. Chinchuluun, P.M. Pardalos, R. Enkhbat and I. Tseveendorj (Eds.), Springer-Verlag, Berlin-Heidelberg, 2010.

International Journals

3. R.A. Rashwan and **A. Hedar**, "On common fixed point theorems of compatible mappings in Menger spaces." *Demonstratio Mathematica*, 31 (1998), 537–546.
4. **A. Hedar** and M. Fukushima, "Hybrid simulated annealing and direct search method for nonlinear unconstrained global optimization." *Optimization Methods and Software*, 17 (2002), 891–912.
5. **A. Hedar** and M. Fukushima, "Minimizing multimodal functions by simplex coding genetic algorithm." *Optimization Methods and Software* 18 (2003), 265–282.
6. **A. Hedar** and M. Fukushima, "Heuristic Pattern Search and Its Hybridization with Simulated Annealing for Nonlinear Global Optimization." *Optimization Methods and Software*, 19 (2004), 291–308.
7. **A. Hedar** and M. Fukushima, "Tabu Search directed by direct search methods for Nonlinear Global Optimization." *European Journal. of Operational Research*, 170 (2006), 329–349.
8. **A. Hedar** and M. Fukushima, "Derivative-free filter simulated annealing method for constrained continuous global optimization." *Journal of Global Optimization*, 35 (2006), 521–549.
9. M.-A. Majig, **A. Hedar** and M. Fukushima, "Hybrid evolutionary algorithm for solving general variational inequality problems." *Journal of Global Optimization*, 38 (2007), 637–651.
10. K.T. Elgindy and **A. Hedar**, "A New Robust Line Search Technique Based On Chebyshev Polynomials." *Applied Mathematics and Computation*, 207 (2008), 853–866.
11. **A. Hedar**, J. Wang and M. Fukushima, "Tabu search for attribute reduction in rough set theory." *Soft Computing*, 12 (2008), 909–918.
12. **A. Hedar** and A. Fahim, "Filter-based genetic Algorithm for mixed variable programming." *Numerical Algebra, Control and Optimization*, 1 (2011), 97–114.
13. **A. Hedar**, A.F. Ali and T.H. Abdel-Hamid, "Genetic algorithm and tabu search based methods for molecular 3d-structure prediction." *Numerical Algebra, Control and Optimization*, 1 (2011), 187–205.
14. **A. Hedar**, E. Mabrouk and M. Fukushima, "Tabu Programming: A New Problem Solver through Adaptive Memory Programming over Tree Data Structures." *International Journal of Information Technology & Decision Making*, 10 (2011), 373–406.

15. A.M.A. Elmoniem, H.M. Ibrahim, M.H. Mohamed and **A. Hedar**, "Ant Colony and Load Balancing Optimizations for AODV Routing Protocol." *International Journal of Sensor Networks and Data Communications*, 1(2011), 1–14.
16. **A. Hedar** and R. Ismail, "Simulated annealing with stochastic local search for minimum dominating set problem." *International Journal of Machine Learning and Cybernetics*, 3 (2012), 97–109.
17. **A. Hedar** and A.F. Ali, "Tabu search with multi-level neighborhood structures for high dimensional problems." *Applied Intelligence*, 37 (2012), 189–206.
18. J. Wang, **A. Hedar**, S. Wang and J. Ma, "Rough set and scatter search metaheuristic based feature selection for credit scoring." *Expert Systems with Applications*, 39 (2012), 6123–6128.
19. M.H. Mohammed, **A. Hedar**, and S. Salah, "An Improved Ant Colony Algorithm Based on the Immune Strategy for the 2D HP Protein Structure Prediction Problem." *Biometrics and Bioinformatics*, 4 (2012), 459–465.
20. S. Salah, **A. Hedar** and M.H. Mohammed, "Enhanced population based ant colony for the 3D hydrophobic polar protein structure prediction problem." *International Journal on Bioinformatics & Biosciences (IJBB)*, 3 (2013), 41–52.
21. M.H. Afif, **A. Hedar** and T.H. Abdel-Hamid, "SS-SVM (3SVM): A New Classification Method for Hepatitis Disease Diagnosis." *International Journal of Advanced Computer Science & Applications* 4.2 (2013), 53–58.
22. **A. Hedar**, S.N. Abdel-Aziz and A.A. Sewisy, "Memetic algorithm with filtering scheme for the minimum weighted edge dominating set problem." *International Journal of Advanced Research in Artificial Intelligence (IJARAI)*, 2(8) (2013), 44–49.
23. **A. Hedar**, S.N. Abdel-Aziz and A.A. Sewisy, "Memetic Algorithm for the Minimum Edge Dominating Set Problem." *IAES International Journal of Artificial Intelligence (IJ-AI)*, 2 (2013), 179–186.
24. A.Y. Shahin, **A. Hedar** and W. Soliman, "Utilizing the Hirsch index to compare top obstetrics and gynecology researchers and the effect of readership volume on establishing solid benchmarks." *Journal of Evidence-Based Women's Health Journal Society* 3.3 (2013): 94–101.
25. **A. Hedar** and M.A. Bakr, "Three Strategies Tabu Search for Vehicle Routing Problem with Time Windows." *Computer Science and Information Technology*, 2 (2014), 108–119.
26. **A. Hedar** and M.A. Bakr, "Applying Tabu Search in Finding an Efficient Solution for the OVRP." *International Journal of Open Problems in Computer Science & Mathematics*, 7(2014), 36–51.
27. T.H. Soliman, M.A. Elmasry, **A. Hedar** and M.M. Doss. "Sentiment Analysis of Arabic Slang Comments on Facebook." *International Journal of Computers & Technology*, 12(2014), 3470–3478.
28. J. Wang, Q. Zhang, **A. Hedar**, A.M. Ibrahim, "A rough set approach to feature selection based on scatter search metaheuristic." *Journal of Systems Science and Complexity*, 27(1) (2014), 157–168.
29. A. Ibrahim, H. Fahim, Y. Ahmed and **A. Hedar**. "Resource Allocation Algorithm for GPUs in a Private Cloud." *International Journal of Cloud Computing*, 5(2016), 45–56.
30. **A. Hedar**, A.E. Abdel-Hakim, and Y. Alotaibi. "Normalised fuzzy index for research ranking." *Behaviour Information Technology* (2018): to appear.
31. **A. Hedar**, R. Ismail, G.A. El Sayed and K.M.J. Khayat, "Two Meta-Heuristics Designed to solve the minimum connected dominating set problem for wireless networks design and management." *Journal of Network and Systems Management* (2018): to appear.

International Refereed Conferences

32. **A. Hedar** and M. Fukushima, "Simulated Annealing Heuristic Pattern Search: A hybrid method for minimizing multimodal functions", In: *Proceedings of MIC'2003: The Fifth Metaheuristics International Conference*, Kyoto, August 2003.
33. **A. Hedar** and M. Fukushima, "Directed evolutionary programming: Towards an improved performance of evolutionary programming", *Proceedings of Congress on Evolutionary Compu-*

- tation, CEC 2006, IEEE World Congress on Computational Intelligence, Vancouver, Canada, July 16–21, 2006.
34. **A. Hedar** and M. Fukushima, "Evolution strategies learned with automatic termination criteria", Proceedings of SCIS&ISIS 2006, Tokyo, Japan, September 20–24, 2006.
 35. **A. Hedar** and M. Fukushima, "Meta-Heuristics Programming", Proceedings of 2nd International Workshop on COMPUTATIONAL INTELLIGENCE & APPLICATIONS, Okayama, Japan, Dec 15, 2006.
 36. **A. Hedar**, J. Wang and M. Fukushima, "Memory-Based Heuristics for rough set attribute reduction", Proceedings of the 3rd International Conference on Intelligent Computing and Information Systems, Cairo, Egypt, March 15–18, 2007.
 37. E. Hamdy, **A. Hedar** and M. Fukushima, "Memetic Programming with Adaptive Local Search Using Tree Data Structures" International Conference on Soft Computing as Transdisciplinary Science and Technology (IEEE/ACM CSTST'08), Paris, France, October 27–31, 2008.
 38. **A. Hedar** and A.F. Ali, "Genetic algorithm with population partitioning and space reduction for high dimensional problems", Cairo, Egypt, December 14–16, 2009.
 39. J. Wang, **A. Hedar**, G. Zheng and S. Wang, "Scatter Search for Rough Set Attribute Reduction", International Joint Conference on Computational Sciences and Optimization, Hainin, China, April 24–26, 2009.
 40. **A. Hedar**, A.F. Ali and T.H. Abdel-Hamid, "Finding the 3D-Structure of a molecule using genetic algorithm and tabu search methods", 10th International Conference on Intelligent Systems Design and Applications (ISDA) 2010, Cairo (Nov 29–Dec 1) 2010.
 41. A.H. El-Kholy, A.M. Abdel-Haleim, and **A. Hedar**, "Content-Based Image Retrieval using combined features and weighted similarity", 2nd International Conference on Computer Technology and Development, ICCTD 2010, Cairo, Egypt, November 2–4, 2010.
 42. A.M. Abdel-Moniem, M.H. Mohamed and **A. Hedar**, "An ant colony optimization algorithm for the mobile ad hoc network routing problem based on AODV protocol", 10th International Conference on Intelligent Systems Design and Applications (ISDA) 2010, Cairo (Nov 29–Dec 1) 2010.
 43. **A. Hedar** and M. Kamel, "Scatter Programming", 2nd International Conference on Computer Technology and Development, ICCTD 2010, Cairo, Egypt, November 2–4, 2010.
 44. **A. Hedar** and R. Ismail "Hybrid Genetic Algorithm for Minimum Dominating Set Problem", Computational Science and Its Applications - ICCSA 2010, Fukuoka, Japan, March 23–26, 2010.
 45. **A. Hedar** and A.F. Ali, "Tabu Search with variable partitioning for high dimensional problems", Informatics and Systems, Cairo, Egypt, March 28–30, 2010.
 46. **A. Hedar** and A.M. Abdel-Aziez, vTabu Search with Adaptive Search Memory for Data Clustering", 21st International Conference on Computer Theory and Applications (ICCTA 2011), Alexandria, Egypt, October 15–17, 2011.
 47. M.H. Afif and **A. Hedar**, "Data Classification Using Support Vector Machine Integrated with Scatter Search Method", 2012 Japan-Egypt Conference on Electronics, Communications and Computers (JEC-ECC12), Alexandria, Egypt, March 6–9, 2012.
 48. M.A. Atiea, Y.B. Mahdy, and **A. Hedar**. "Hiding Data in FLV Video File." *Advances in Computer Science, Engineering & Applications*. Springer Berlin Heidelberg, (2012) 919–925.
 49. M.A. Atiea, Y.B. Mahdy, and **A. Hedar**. "Poor Quality Watermark Barcodes Image Enhancement." *Advances in Computer Science, Engineering & Applications*. Springer Berlin Heidelberg, (2012) 913–918.
 50. M.H. Afif, **A. Hedar**, T.H. Abdel-Hamid and Y.B. Mahdy. "Parameter determination of support vector machine using scatter search approach." In 22nd International Conference on Computer Theory and Applications (ICCTA) 2012, (pp. 181–186), IEEE, 2012.
 51. **A. Hedar**, A. Abdelsamee, A. Fouad and S.T. Amin. "Advanced Parallel Genetic Algorithm with Gene Matrix for Global Optimization." In *Advanced Machine Learning Technologies and Applications*, pp. 295-303. Springer Berlin Heidelberg, 2012.

52. M.H. Afif, **A. Hedar**, T.H. Abdel-Hamid and Y.B. Mahdy. "Support Vector Machines with Weighted Powered Kernels for Data Classification." In *Advanced Machine Learning Technologies and Applications*, pp. 369–378. Springer Berlin Heidelberg, 2012.
53. T.H. Soliman, M.A. Elmasry, **A. Hedar** and M.M. Doss. "Utilizing support vector machines in mining online customer reviews." In *22nd International Conference on Computer Theory and Applications (ICCTA) 2012*, pp. 192–197, IEEE, 2012.
54. A. Fahim and **A. Hedar**. "Hybrid scatter search for integer programming problems." *9th International Conference on Informatics and Systems (INFOS)*, IEEE, 2014.
55. M. Almaraashi and **A. Hedar**. "Optimization of interval type-2 fuzzy logic systems using tabu search algorithms." *Sixth World Congress on Nature and Biologically Inspired Computing (NaBIC)*, IEEE, 2014.
56. M.M. Ahmed, **A. Hedar**, and H.M. Ibrahim. "Prediction of Software Defect Severity based on Analysis of Software Repositories." In: *1st Africa and Middle East Conference on Software Engineering (AMECSE 2014), Social Media and Publicity*, 2014.
57. M.M. Ahmed, **A. Hedar**, and H.M. Ibrahim. "Predicting Bug Category Based on Analysis of Software Repositories." In: *IIE Conference*, March 21–22, 2014 Dubai (UAE).
58. **A. Hedar**, M.A. Omer and A.A. Sewisy, "Rough sets attribute reduction using an accelerated genetic algorithm. In: *16th IEEE/ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD)*, 2015.
59. **A. Hedar**, M.A. Omer, A.F. Al-Sadek and A.A. Sewisy, "Hybrid evolutionary algorithms for data classification in intrusion detection systems." In: *16th IEEE/ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD)*, 2015.
60. **A. Hedar**, R. Ismail, G.A. El Sayed and K.M.J. Khayyat, "Two Meta-Heuristics for the Minimum Connected Dominating Set Problem with an Application in Wireless Networks." In: *2nd ACIS International Conference on Computational Science and Intelligence (CSI 2015)*, IEEE, 2015.
61. **A. Hedar**, "Adaptive Memory Matrices for Automatic Termination of Evolutionary Algorithms." In: *4th International Conference on Informatics and Application*, July 20–22, 2015, Takamatsu, Japan, 2015.
62. **A. Hedar**, A.E. Abdel-Hakim and M. Almaraashi, "Granular-Based Dimension Reduction for Solar Radiation Prediction Using Adaptive Memory Programming." In *Proceedings of the 2016 on Genetic and Evolutionary Computation Conference Companion (GECCO '16 Companion)*, Tobias Friedrich (Ed.). ACM, New York, NY, USA, 929–936.
63. **A. Hedar** and A.A. Allam. "Scatter Search for Simulation-Based Optimization." In *Computer and Applications (ICCA), 2017 International Conference on*, pp. 244–251. IEEE, 2017.
64. **A. Hedar**, A.M. Ibrahim, A.E. Abdel-Hakim, and A.A. Sewisy. "Modulated clustering using integrated rough sets and scatter search attribute reduction." In *Proceedings of the Genetic and Evolutionary Computation Conference Companion*, pp. 1394-1401. ACM, 2018.
65. **A. Hedar** and G.A. El-Sayed. "Parallel genetic algorithm with elite and diverse cores for solving the minimum connected dominating set problem in wireless networks topology control." In *Proceedings of the 2nd International Conference on Future Networks and Distributed Systems*, p. 27. ACM, 2018.

Technical Reports

66. E. Mabrouk, **A. Hedar** and M. Fukushima, "Memetic Programming Algorithm with Automatically Defined Functions", Technical Report 2010-015, Department of Applied Mathematics and Physics, Kyoto University (November 2010).
67. **A. Hedar**, E. Mabrouk and M. Fukushima, "Tabu Programming Method: A New Evolutionary Algorithm Using Tree Data Structures for Problem Solving", Technical Report 2008-004, Department of Applied Mathematics and Physics, Kyoto University (April 2008).
68. **A. Hedar**, B.T. Ong and M. Fukushima, "Genetic algorithms with automatic accelerated termination", Technical Report 2007-002, Department of Applied Mathematics and Physics, Kyoto University (January 2007).

PhD & Master Students

1. **Ong Bun Theang**, "On Automatic Termination Criteria for Evolutionary Computing", Faculté Polytechnique de Mons, Belgium, 2006.
2. **Karim Taha Elgindy**, "Chebyshev Approximation for Solving Differential Equations and Integral Equations and Nonlinear Programming Problems", M.Sc., Assiut University, Egypt, 2008.
3. **Majig Mend Amar**, "Studies on Global Optimization Approach for General Variational Inequality Problems", Ph.D., Kyoto University, Japan, 2009.
4. **Emad Hamdy Mabrouk**, "Meta-Heuristics Programming and Its Applications", Ph.D., Kyoto University, Japan, 2011.
5. **Ahmed Fouad Ali**, "Developing Efficient Computational Intelligence Techniques for Protein 3D-Structure Prediction", Assiut University, Egypt, 2011.
6. **Alaa Fahim mohamed Fahim**, "Design Efficient Genetic Algorithms for Mixed Variable Programming", M.Sc., Assiut University, Egypt, 2011.
7. **Mostafa Kamel Osman**, "Designing Machine Learning Tools Based on Meta- heuristics Programming", Cairo University, Egypt, 2011.
8. **Rashad Ali Faree**, "Design Meta-Heuristics Methods for Minimum Dominating Set Problem in Graph Theory", Ph.D., Assiut University, Egypt, 2011.
9. **Ahmed Mohamed Abd Elmoniem Sayed**, "Routing Optimization of Mobile Ad-Hoc Networks Based on Ant Colony Algorithms", M.Sc., Assiut University, Egypt, 2012.
10. **Hosam Reafat**, "Parallel Data Mining for Association Rules on Shared-Memory", Ph.D., Assiut University, Egypt, 2013.
11. **Sara Salah Mohamed**, "Swarm Intelligence in Data Mining", Ph.D., Assiut University, Egypt, 2013.
12. **Abdel-Moaneam Ibrahim**, "Design Computational Intelligence Methods for Attribute Reduction, Association and Classification", Ph.D., Al-Azhar University, Egypt, 2013.
13. **Mostafa Ali Mahmoud Mohammed**, "Mining Opining Features in Users Reviews", M.Sc., Assiut University, Egypt, 2013.
14. **Shada Nabeel Abdel-Aziz**, "Design Efficient Meta-Heuristic Algorithms for Graph Domination", M.Sc., Assiut University, Egypt, 2013.
15. **Amr Mohmmmed Abdel-Aziz**, "Hybrid computational intelligence methods for database intrusion detection", M.Sc., Assiut University, Egypt, 2013.
16. **Amr Abdel-Samea**, "Design Hybrid Parallel Meta-Heuristics for High Dimensional Problems", M.Sc., Assiut University, Egypt, 2013.
17. **Mohamed Abdul-Allah Bakr**, "Hybrid Computational Intelligence Methods for Vehicle Routing Problems", M.Sc., Assiut University, Egypt, 2013.
18. **Essraa Farouk Abu Elmajd**, "Design Multiple Path Test Data Generators Based on Meta-Heuristics", M.Sc., Assiut University, Egypt, 2014.
19. **Amira Ahmed Abdel-Monsef Allam**, "Development of Efficient Evolutionary Algorithms for Simulation-Based Optimization", M.Sc., Assiut University, Egypt, 2014.
20. **Ahmed Hosny Mahammed**, "Design an Optimized Model for Resources Allocation in Private Cloud", M.Sc., Assiut University, Egypt, 2014.
21. **Mohammed Hameed Awad Afif**, "Developing Hybrid Machine Learning Tools for Intelligent Data Classification", Ph.D., Assiut University, Egypt, 2014.
22. **Alaa Fahim mohamed Fahim**, "Hybrid Meta-Heuristics Design for Integer Programming Problems and their Applications in Computational Biology", Ph. D., Assiut University, Egypt, 2015.
23. **Moustafa Mohamed Mohamed**, "Prediction Bug Features Based on Analysis of Software Repositories", M.Sc., Assiut University, Egypt, 2015.