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PERSONAL INFORMATION

Name: Ayman Mohamed WAHBA
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Heliopolis, Cairo, Egypt.
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Birth Date: 01/08/1965
Nationality: Egyptian.

QUALIFICATIONS

- Thirty-six years combined research, development, teaching, and management experience.
- Highly adaptable and fully trilingual (French, English, and Arabic) with excellent creative problem-solving skills.
- Excellent people care and conflict management skills
- Effective communication and presentation skills
- Exposure to many cultures as I lived 4 years in Greece, and 5 years in France. Travelled to many countries (USA, France, Germany, Spain, Switzerland, Italy, UAE, Saudi Arabia, Thailand, India, Malaysia, Turkey, Austria, Tanzania, UK, Indonesia).

EDUCATION

- **Ph.D, 1997**, Computer Engineering, TIMA laboratory, Joseph Fourier University, Grenoble, France.
- Thesis: *Automatic Design Errors Diagnosis in Logic Circuits*. (in French)
- **DEA, 1993**, Computer Science. ENSIMAG, INPG, Grenoble, France. (DEA = Diplôme d'études approfondies, equivalent to M.Sc.)
- Thesis: *Automatic Diagnosis of Simple Gate Errors in Logic Circuits using the Ternary Logic* (in French).
- **M.Sc. 1991**, Electrical Engineering, Dept. of Computers & Systems Engineering, Ain Shams University, Cairo, Egypt.
- Thesis: *Adaptive Decoupled Regulators for Multi-variable Systems*.
- Graduate Courses: Computer Organization, Optimal Control, Systems Identification, Stochastic Optimal, Control, GPA = 4.
- **B.Sc. 1988**, Electrical Engineering, Dept. of Computers & Systems Engineering, Ain Shams University, Cairo, Egypt.
- Distinction with first class honor degree, GPA = 3.91, ranked 1st out of 55 students.

ACADEMIC CAREER

- **Member of the Standing Scientific Committee of the National Telecommunications Institute, Sep. 2020 – Sep. 2023**, Supreme Council of Universities, Ministry of Higher Education, Egypt.
- **Member of the Board of Trustees of the Egyptian E-Learning University, May 2018 – May 2019**, Ministry of Higher Education, Egypt.
- **Member and Secretary General of the Professors' Promotion Committee, Apr. 2016 – Apr. 2019**, Supreme Council of Universities, Ministry of Higher Education, Egypt.
- **Vice Dean for Education & Student Affairs, Nov. 2014 – Nov. 2017**, Faculty of Engineering, Ain Shams University.
- **Member of the Professors' Promotion Committee, Apr. 2013 – Apr. 2016**, Supreme Council of Universities, Ministry of Higher Education, Egypt.
- **Head of Department, Aug. 2012 – Nov. 2014**, Computer and Systems Engineering Department, Faculty of Engineering, Ain Shams University.
- **Professor, 2007**, Computer and Systems Engineering Department, Faculty of Engineering, Ain Shams University.
- **Associate Professor, 2002**, Computer and Systems Engineering Department, Faculty of Engineering, Ain Shams University.

- **Assistant Professor, 1997**, Computer and Systems Engineering Department, Faculty of Engineering, Ain Shams University.
- **Research Assistant, 1993**, INPG, Grenoble, France.
- **Senior Teaching Assistant, 1991**, Computer and Systems Engineering Department, Faculty of Engineering, Ain Shams University.
- **Teaching Assistant, 1988**, Computer and Systems Engineering Department, Faculty of Engineering, Ain Shams University.

INDUSTRIAL EXPERIENCE

- **Chief Technical Officer, ICpedia (July 2009 – now)**
ICpedia is a VLSI consulting company headquartered at Cairo, Egypt. It offers world-class services like Design specifications, Architecture specification and design, Logic design, RTL coding, Logic verification, Synthesis, Timing analysis and closure, Place and Route, chip layout, Physical verification, and Test pattern generation.
- **Technical Consultant, Valeo (May 2007 – June 2009)**
(Valeo is a multinational company, with 75,000 employees in 41 countries, with its headquarter based in France).
Managed a team of 50 engineers. My role included:
 - Increasing the skill level and knowledge base of the team (50 team members)
 - Interviewing & recruiting workforce.
 - Enforcing, and assuring the following of quality standards, and processes.
 - Monitoring feedback from customers, to keep high level of satisfaction. My customers are car manufacturers including (Renault, Peugeot, Ford, Fiat, Jaguar, Porsche, and GM).
- **Technical Consultant, KeesDA – France, (July 2005 – April 2007)**
KeesDA's main activity is the development of leading edge tools for electronic system design and their integration in industrial design flows, making it one of the very few actors of the market delivering system level verification tools based on formal proof.
- **R&D Manager, Mentor Graphics Corporation (October 1997 – June 2005)**
(Mentor Graphics is a multinational company, with 4500 employees in 28 sites worldwide, with its headquarter based in USA).

EVENTS MANAGED/PLANNED

- Member of the Program Committee, 22nd IEEE European Test Symposium, Limassol, Cyprus, 2017.
- Conference Chair, 9th IEEE International Conference on Computer Engineering and Systems, Cairo, Egypt, 2014.
- Regional liaison, 17th IEEE European Test Symposium, Annecy, France, 2012.
- Regional liaison, 16th IEEE European Test Symposium, Trondheim, Norway, 2011.
- Organization committee coordinator, IEEE International Conference on Computer Engineering and Systems, Cairo, Egypt, 2007
- Member of the organization committee and reviewer, IEEE International Conference on Computer Engineering and Systems, Cairo, Egypt, 2006
- Member of the organization committee and reviewer, IEEE International Conference on Electrical, Electronic and Computer Engineering, Cairo, Egypt, 2004

LEADERSHIP ACTIVITIES

- Leader of the art committee of the student union of Ain Shams University
- Leader of the scientific committee of the student union of Ain Shams University
- Co-supervised 70 M.Sc. thesis
- Co-supervised 25 Ph.D. thesis

LANGUAGES

- Fully trilingual, fluent and articulate in French, English and Arabic (written, spoken and understood).

PROFESSIONAL TRAINING

- Conflict Management (EITESAL)

- The seven habits of highly effective people (Stephen Covey)
- The four roles of leadership (Stephen Covey)
- Developing your management skills (American Chamber of Commerce in Egypt)
- Customer satisfaction and its impact on business (The American University in Cairo)
- Project management (The American University in Cairo)

APPENDIX

PUBLICATIONS

[1991]

1. A. M. Wahba, "Adaptive Decoupled Self-Tuning Regulators for Multi-Variable Systems," *MSc. thesis*, Ain Shams University, Egypt, Dec. 1991.

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2. A. M. Wahba, and M. A. Sheirah, "Adaptive Decoupler for Multivariable Systems," *International Journal of System Science*, Vol. 24, No 1, pp. 97-109, 1993.
3. A. M. Wahba, "Vérification et Diagnostic des Circuits Logiques Combinatoires par Utilisation de la Simulation à 3 Valeurs," *MSc. thesis*, Université Joseph Fourier, Grenoble, France, June 1993. (in French)
4. A. M. Wahba, and E. J. AAS, "Verification and Diagnosis of Digital Systems by Ternary Reasoning," *In Proc. Correct Hardware Design and Verification Methods, CHARME'93, Lecture Notes in Computer Science*, No. 683, pp. 55-67, Springer Verlag, Alres, France, May 1993.
5. A. Wahba, and D. Déharbe, "Design Error Diagnosis in Logic Circuits using Ternary Test Sets," *Research Report RR-928-M*, ARTEMIS-IMAG, Grenoble, France, Dec. 1993.

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6. A. Wahba, and D. Borrione, "Design Error Diagnosis in Logic Circuits using Diagnosis-Oriented Test Patterns," *Research Report RR-940-I*, ARTEMIS-IMAG, Grenoble, France, June 1994.

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7. A. Wahba, "General Survey on Sequential Test Generation Methods," *Research Report RR-948-I*, ARTEMIS-IMAG, Grenoble, France, July 1995.
8. A. Wahba, and D. Borrione, "Design Error Diagnosis in Sequential Circuits," *In Proc. Correct Hardware Design and Verification Methods, CHARME'95, Lecture Notes in Computer Science*, No. 987, pp. 171-188, Springer Verlag, Frankfurt, Germany, 2-4 Oct. 1995.

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9. A. Wahba, and D. Borrione, "Connection Errors Location and Correction in Combinational Circuits," *Research Report TIMA 96.1.I*, INPG, Grenoble, France, Feb. 1996.
10. A. Wahba, and D. Borrione, "A Method for Automatic Design Error Location and Correction in Combinational Logic Circuits," *Journal of Electronic Testing: Theory and Applications (JETTA)*, Vol. 8, No. 2, pp. 113-127, Kluwer Academic Publishers, April 1996.
11. A. Wahba, and D. Borrione, "Automatic Diagnosis may Replace Simulation for Correcting Simple Design Errors," *In Proc. IEEE European Design Automation Conference*, pp. 476-481, Geneva, Switzerland, 16-20 Sept. 1996.
12. D. Borrione, H. Bouamama, D. Déharbe, C. Le Faou, and A. Wahba, "HDL-Based Integration of Formal Methods and CAD Tools in the PREVAIL Environment," *In Proc. International Conference on Formal Methods in Computer-Aided Design, Lecture Notes in Computer Science*, No. 1166, pp. 450-467, Springer Verlag, Palo Alto, CA, USA, 6-8 November 1996.

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13. A. Wahba, "Diagnostic des Erreurs de Composants dans les Circuits Logiques," *Proc. Colloque CAO de circuits intégrés et systèmes: Action structurante en CAO de Circuits Intégrés et Systèmes DSPT4/MENESRIP*, TIMA, pp. 102-105, Villard de Lans, Grenoble, France, 15-17 January 1997.
14. A. Wahba, and D. Borrione, "Connection Errors Location and Correction in Combinational Circuits," *In Proc. IEEE European Design and Test Conference*, pp. 235-241, Paris, France, 17-20 March 1997.
15. A. Wahba, "Diagnostic des erreurs de conception dans les circuits digitaux: le cas des erreurs simples," *Ph.D. Thesis*, Université Joseph Fourier, Grenoble, France, May 1997. (in French).

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16. A. Wahba, A. Salem, "A recursive algorithm for logic circuits optimization," *In Proc. 6th International Conference on Artificial Intelligence Applications, ICAIA'98*, pp. 293-3001, Cairo, Egypt, 18-23 February 1998.

17. M. Sabry, A. Wahba, H. Mahdi, "A parallel technique for ATPG using genetic algorithms," *In Proc. IEEE 10th International Conference on Microelectronics, ICM'98*, pp. 71-73, 74a-c, Monastir, Tunisia, 14-16 December 1998.

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18. A. Wahba, A. Salem, "Combinational circuits verification using recursive learning and binary decision diagrams," *In Proc. 2nd International Workshop on Design, Test and Applications, WDTA'99*, pp. 53-56, Dubrovnik, Croatia, 14-16 June 1999

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19. S. Reda, A. Wahba, A. Salem, "M-CHECK: a multiple engine combinational equivalence checker," *In Proc. IEEE International Symposium on Circuits and Systems, ISCAS'2000*, Vol. 2, pp. 613-616, Geneva, Switzerland, 28-31 May 2000.
20. S. Reda, A. Wahba, A. Salem, and M. A. Ghonaimy "Iterated calculation of global implications and recursive learning in combinational equivalence checking," *In Proc. 43rd IEEE Midwest Symposium on Circuits and Systems, MWSCAS'2000*, Vol. 2, pp. 976-979, Lansing, Michigan, USA, 8-11 August 2000.
21. A. Wahba, "BDD/AOG-based algorithm for multiple error rectification in combinational circuits," *In Proc. IEEE International Conference on Electronics, Circuits, and Systems, ICECS'2K*, Vol. 2, pp. 658-661, Beirut, Lebanon, 17-20 December 2000.

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22. S. Reda, A. Wahba, A. Salem, D. Borrione, and M. A. Ghonaimy "On the use of don't cares during symbolic reachability analysis," *In Proc. IEEE International Symposium on Circuits and Systems, ISCAS'2001*, Vol. 5, pp. 121-124, Sydney, Australia, 6-9 May 2001.
23. A. Wahba, E. Aas, "Formal verification of digital circuits by 3-valued simulation," *In Proc. of the 8th IEEE International Conference on Electronics, Circuits and Systems, ICECS'2001*, Vol. 2, pp. 785-788, Malta, 2-5 September 2001.
24. A. Wahba, A. Salem, "A recursive learning based algorithm for logic circuits Optimization," *Scientific Bulletin of the Faculty of Engineering, Ain Shams University*, Vol. 4/36, Cairo, Egypt, December 2001.

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25. M. Nabeel, A. Wahba, A. Salem, M. Sheirah "Accelerated Cosimulation Using Reconfigurable Computing," *In Proc. IEEE 14th International Conference on Microelectronics, ICM'02*, pp. 33-36, Beirut, Lebanon, 11-13 December 2002.

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26. A. Ayoub, A. Wahba, A. Salem, M. Sheirah "TCTL-Based Verification of Industrial Processes," *In Proc. Forum of Description Languages, FDL'03*, ISSN 1636-9874, pp. 456-468, Frankfurt, Germany, October 2003.
27. S. Hassan, A. Wahba, A. Badr "Automatic Test Pattern Generation from High Level Specifications," *In Proc. 46th IEEE Midwest Symposium on Circuits and Systems, MWSCAS'03*, Vol. 3, pp. 1506-1509, Cairo, Egypt, 27-30 December 2003.

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28. J. Fadel, A. Wahba, A. Salem, "Accelerated Fault Simulation on CelaroPro," *In Proc. Mentor India-Egypt Technical Conference, MIETC 2004*, pp. 36-40, Hyderabad, India, February 2004.
29. M. Wageeh, A. Wahba, A. Salem, M. Sheirah, "FPGA based Accelerator for Functional Simulation," *In Proc. IEEE International Symposium on Circuits and Systems, ISCAS'04*, Vol. 5, pp. 317-320, Vancouver, Canada, 23-26 May 2004.
30. A. Wahba, "HDL Filter for Optimized Area-Delay Minimization in FPGA Synthesis," *In Proc. IEEE International Conference on Electrical, Electronic, and Computer Engineering, ICEEC'04*, pp. 43-46, Cairo, Egypt, 5-7 September 2004.

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31. A. Wahba, "Polynomial Approximation of Functions using FPGA Shaped Operators," *Scientific Bulletin of the Faculty of Engineering, Ain Shams University*, Vol. 41, No. 1, pp. 707-717, Cairo, Egypt, March 2006.

32. N. Araby, A. Wahba, H. Bedor, "Dynamic Reconfiguration for Increased Functional Density," *In Proc. IEEE International Workshop on Systems-on-Chip for Real-Time Applications, IWSOC'06*, pp.33-36, Cairo, Egypt, 27-29 December 2006.
33. A. Wahba, "Application-Specific Optimization of Embedded Processors," *Scientific Bulletin of the Faculty of Engineering, Ain Shams University*, Vol. 41, No. 3, pp. 669-680, Cairo, Egypt, September 2006.

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34. A. Wahba, "Discrete versus Continuous Models in the Verification of Real-Time Distributed Systems Using Formal Methods," *Scientific Bulletin of the Faculty of Engineering, Ain Shams University*, Vol. 42, No. 2, Cairo, Egypt, June 2007.
35. Ayman M. Wahba, and Islam El-Maddah, "Verification of the Properties of Asynchronous Real-Time Distributed Systems using the B-Formalism," *In Proc. Forum of Description Languages, FDL'07*, pp. 311-209, Barcelone, Spain, September 2007.
36. Ayman M. Wahba, and Islam El-Maddah, "Verification of the Properties of Asynchronous Real-Time Distributed Systems using the B-Formalism," *In Proc. 2nd International Design and Test Workshop, IDT'07*, pp. 163-168, Cairo, Egypt, December 2007.

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37. Mohamed, S. I., El-Maddah, I. A., Wahba, A. M., "Towards Value-Based Requirements Prioritization for Software Product Management", *International Journal of Software Engineering (IJSE)* , Vol.1, No. 2, pp. 35-48, July 2008.
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39. Samer I. Mohamed, Ayman M. Wahba, "Value Estimation for Software Product Management", *In Proc. IEEE International Conference on Industrial Engineering and Engineering Management, IEM 2008*, pp. 2196-2200, Singapore, December 2008.
40. A. Ayoub, A. Wahba, and M. Sheirah, "Mapping timed automata to B", *In Proc. 3rd IEEE International Design and Test Workshop, IDT 2008*, pp. 255-259, Monastir, Tunisia, December 2008.

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41. Samer I. Mohamed, Islam A. El-Maddah, and Ayman Wahba, "Hybrid-Based Maintainability Impact Analysis for Evolving Systems", *International Journal of Software Engineering (IJSE)* , Vol. 2, No. 1, pp. 47-66, January 2009.
42. Anaheed Ayoub, Ayman Wahba, Ashraf Salem and Mohamed Sheirah, "An Approach to Model Real-Time Systems in B". *In Proc. International Conference on Software Engineering Theory and Practice, SETP'09*, pp. 196-203, Orlando, FL, USA. July 13-16, 2009.
43. Saffey Khalil, and Ayman Wahba, "Usage of Run-Time Re-Configuration for System Porting in Automotive Applications", *In Proc. International Design and Test Workshop, IDT'2009*, pp. 1-6, Riyadh, Saudi Arabia, November 2009.
44. Anaheed Ayoub, Ayman M. Wahba, Ashraf M. Salem, Mohamed Taher, and Mohamed A. Sheirah, "Automatic Code Generation from Verified Timed Automata Model", *In Proc. IDIAS International Conference on Applied Computing, IADIS'2009*, pp. 243-250, Rome, Italy, November 2009.
45. Amin Abdel-Wahab, Ayman M. Bahaa-Eldin, Ayman Wahba, Mohamed A. Sheirah, "A Security Layer for Smart Card Applications Authentication", *In Proc. International Conference on Computer Engineering & Systems, ICCES'2009*, pp. 514-517, Cairo, Egypt, December 2009.
46. Samer I. Mohamed, Islam M. El-Maddah, and Ayman Wahba, "Hybrid-Based Maintainability Impact Analysis for Evolving Systems", *International Journal of Software Engineering and Knowledge Engineering, (IJSEKE)*, Vol. 19, No. 8, pp. 1131-1149, December 2009.

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47. Samer I. Mohamed, Islam M. El-Maddah, and Ayman M. Wahba, "Criteria-Based Framework for Software Product Management", *International Journal of Software Engineering (IJSE)*, Vol.3, No. 1, pp. 29-52, January 2010.
48. Anaheed Ayoub, Ayman M. Wahba, Ashraf M. Salem, Mohamed A. Sheirah, "Code Synthesis for Timed Automata: A Comparison Using Case Study", *In Proc. Abstract State Machine, ASM'2010, Lecture Notes in Computer Science*, No. 5977, pp. 403, Springer, Orford, QC, Canada, February 2010.

49. Shereen Afifi, Ayman Wahba, and Abd-Elmoneim Wahdan, "Memory Design for Multimedia Applications", *In Proc. International Conference on Computer Design, CDES'2010*, pp. 189-195, Las Vegas, Nevada, USA. July 12-15, 2010.
50. Mohamed A. Soliman, Islam A. El-Maddah, and Ayman M. Wahba, "Design Pattern Mining in Object Oriented Software", *In Proc. International Conference on Computer Theory and Applications, ICCTA'2010*, Alexandria, Egypt, October 2010.
51. Alaa Leithy, Mohamed N. Moustafa, and Ayman Wahba, "Cascade of Complementary Features for Fast and Accurate Pedestrian Detection", *In Proc. 4th Pacific-Rim Symposium on Image and Video Technology, PSIVT'2010*, pp. 343-348, Singapore, November 2010.
52. Shereen Afifi, Ayman Wahba, and Abd-Elmoneim Wahdan, "Accelerated access to visual data in multimedia applications", *In Proc. International Conference on Computer Engineering & Systems, ICCES'2010*, pp. 172-177, Cairo, Egypt, November 2010.
53. Alaa Leithy, Mohamed N. Moustafa, and Ayman Wahba, "Fast and Accurate Pedestrian Detection Using a Cascade of Multiple Features", *In Proc. Asian Conference on Computer Vision, ACCV'2010, Lecture Notes in Computer Science*, Vol 6468, pp. 153-163, Springer, November 2010.
54. Samah Hassan, Mohamed Taher, and Ayman Wahba, "Mapping SMV models to Event-B Models", *In Proc. International Design and Test Workshop, IDT'2010*, pp. 161-166, Abu Dhabi, UAE, December 2010.

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55. Ayman Wahba, and Nahla A. El-Araby, "Formal Verification of Real Time Distributed Systems using B Method", *International Journal of Engineering Science and Technology*, Vol. 3, No. 4, pp. 3427-3436, April 2011.
56. Mohamed A. Soliman, Islam A. M. ElMaddah, Ayman M. Wahba, "Patterns Mining from Java Source Code", *International Journal of Software Engineering (IJSE)*, Vol.4, No. 2, pp. 19-40, July 2011.
57. Nahla A. El-Araby, Ayman Wahba, and Mohamed Taher, "Implementation of formally verified real time distributed systems: Simplified flight control system", *In Proc. International Conference on Computer Engineering & Systems, ICCES'2011*, pp. 25-32, Cairo, Egypt, November 2011.
58. Mohamed Hanafy, Mostafa Gomaa, Mohamed Taher, and Ayman Wahba, "Path Generation and Tracking for Car Automatic Parking Employing Swarm Algorithm", *In Proc. International Conference on Computer Engineering & Systems, ICCES'2011*, pp. 99-104, Cairo, Egypt, November 2011.
59. Fatma Z. Sakr, Mohamed Taher, and Ayman Wahba, "High performance Iris Recognition System on GPU", *In Proc. International Conference on Computer Engineering & Systems, ICCES'2011*, pp. 237-242, Cairo, Egypt, November 2011.

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60. Alaa Leithy, Mohamed N. Moustafa, and Ayman Wahba, "Multi-Cascade of Complementary Features for Fast and Accurate Pedestrian Detection", *IPSJ Transactions on Computer Vision and Applications*, Vol. 4, pp. 30-39, March 2012.
61. Mohamed Hanafy, Mostafa Gomaa, Mohamed Taher, and Ayman Wahba, "Development of a Technology for Car's Auto-parking Using Swarm Search Based Fuzzy Control System", *International Journal of Modeling, Identification, and Control (IJMIC)*, Vol. 17, No. 1, pp. 85-97, September 2012.
62. Fatma Z. Sakr, Mohamed Taher, Ahmed M. El-Bialy, Ayman M. Wahba, "Accelerating Iris Recognition Algorithms on GPUs", *IEEE Cairo International Biomedical Engineering Conference, CIBEC'2012*, pp. 73-76, Cairo Egypt, 2012.

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63. Mohamed Ibrahim, Cherif Salama, M. Watheq El-Kharashi, Ayman Wahba, "A Novel Interconnect Routing Algorithm for Pin-constrained Electrowetting-on-dielectric Chips", *In Proc. 8th International Conference on Design & Technology of Integrated Systems in Nanoscale Era, DTIS'2013*, Abu Dhabi, United Arab Emirates, March 2013.
64. Nahla El-Araby, Ayman M. Wahba, Mohamed Taher, "Correct by Construction design approach through mapping B models into VHDL", *International Journal of Engineering Research and Development*, Volume 9, Issue 6, pp. 34-49, December 2013.

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65. Wafaa S. El-Kassas, Bassem A. Abdullah, Ahmed H. Yousef, Ayman M. Wahba, "ICPMD: Integrated Cross-Platform Mobile Development Solution", *9th IEEE International Conference on Computer Engineering & Systems, ICCES'2014*, pp. 307-317, Cairo, Egypt, 2014.

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66. Ghada El-Sayed, Cherif Salama, and Ayman Wahba, "Optimization of Generated Test Data for MC/DC", *In Proc. International Conference on Intelligent Software Methodologies, Tools and Techniques, SoMeT'2015*, Vol. 532, pp. 161-172 Springer, September 2015.
67. Ahmed El-Serafy, Cherif Salama, and Ayman Wahba, "Automatic Test Data Generation Targeting Hybrid Coverage Criteria", *In Proc. International Conference on Intelligent Software Methodologies, Tools and Techniques, SoMeT'2015*, Vol. 532, pp. 149-160 Springer, September 2015.
68. Hanaa Abdelgawad, Mona Safar, Ayman Wahba, "High Level Synthesis of Canny Edge Detection Algorithm on Zynq Platform", *International Journal of Computer, Electrical, Automation, Control and Information Engineering*, Vol. 9, No. 1, pp. 148-152, 2015.
69. Nahla Mohamed, Mona Safar, Ayman Wahba, Ashraf Salem, "Automatic Test Pattern Generation for Virtual Hardware Model using Constrained Symbolic Execution", *10th IEEE International Design & Test Symposium, IDT'2015*, pp. 149-156, Amman, Jordan, 2015
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72. Ramy Boghdady, Cherif Salama, Ayman Wahba, "GPU-Accelerated Real-Time Video Background Subtraction", *10th IEEE International Conference on Computer Engineering & Systems, ICCES'2015*, pp. 34-39, Cairo, Egypt, 2015.
73. Ahmed El-Serafy, Ghada El-Sayed, Cherif Salama, Ayman Wahba, "Enhanced Genetic Algorithm for MC/DC Test Data Generation", *IEEE International Symposium on Innovations in Intelligent Systems and Applications, INSTA'2015*, pp. 1-8, Madrid, Spain, 2015.
74. Mohamed Hanafy, Hazem Said, Ayman M. Wahba, "Complete Properties Extraction from Simulation Traces for Assertions Auto-Generation", *24th IEEE North Atlantic Test Workshop, NATW'2015*, pp. 1-6, New York, USA, 2015.
75. Mohamed Ibrahim, Cherif Salama, M. Watheq El-Kharashi, Ayman Wahba, "Pin-Count and Wire Length Optimization for Electrowetting-on-Dielectric Chips: A Metaheuristics-Based Routing Algorithm", *Book Chapter: Computational Intelligence in Digital and Network Designs and Applications*, pp. 271-294, Springer, 2015.

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81. Mohanad Odema, Ihab Adly, Ayman Wahba, Hani Ragai, "Smart Aquaponics System for Industrial Internet of Things (IIoT)", *International Conference on Advanced Intelligent Systems and Informatics*, pp. 844-854, Cairo, Egypt, 2017.

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83. Marwa S. Elshabrawy, Mohamed N. Moustafa, Ayman M. Wahba, "Color instance segmentation and classification of cervix images", *In Proc. 10th IEEE GCC Conference & Exhibition, GCC'2019*, Kuwait, 19-23 April 2019.
84. Ahmed Aboalseoud, Akram Youssry, Mohamed El-Nozahi, Ahmed El-Rafei, Ahmed ElBialy, Hani Ragaai, and Ayman Wahba, "Wireless ECG Monitoring System for Telemedicine Application", *In Proc. 9th International Conference on Intelligent Computing and Information Systems ICICIS'2019*, pp. 300-305, Cairo, Egypt, December 2019

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