

Publications - Aaron Rababaah

16. BOOKS/CHAPTERS

Books:

1. **Rababaah, A.** (2021). Invent your own programming language: a practical introduction through **Simple Imperative-Model Programming Language for Education (SIMPLE)**. Leanpub, February 28, 2021. https://leanpub.com/aaron_rababaah_invent_your_own_language_simple.
2. **Rababaah, A.** (2020). Object-Oriented Programming in Java: Concepts and Practical Projects. Aaron R. Rababaah, Leanpub August 03, 2020, https://leanpub.com/aaron_rababaah_object_oriented_in_java
3. **Rababaah, A.** (2018). A Practical Introduction to MatLab® Programming with Applications, Aaron R. Rababaah, GRIN publishing, Nymphenburger Str. 86 80636 Munich, Germany, May 2, 2018, ISBN: 9783668696150. <https://www.grin.com/document/420539> also on: https://leanpub.com/aaron_rababaah_intro_matlab.
4. **Rababaah, A.** (2018). 100 Questions and Answers for Object-Oriented Programming (OOP) in C++ (**Booklet**), GRIN publishing, Nymphenburger Str. 86 80636 Munich, Germany, GRIN Verlag, Apr 23, 2018, ISBN: 9783668696235. <https://www.grin.com/document/423537>.
Also, the Booklet is included in the **ACM** digital library: <https://dl.acm.org/profile/99659285300/publications?Role=author>
5. **Rababaah, A.** (2017). A Novel Image-based Model for Data Fusion in Intelligent Surveillance Systems, Scholar's Press, Saarbrücken, Germany, April 25, 2017, ISBN: 9783330651531. <https://www.amazon.com/Novel-Image-based-Fusion-Surveillance-Systems/dp/3330651539#ace-g6572008997>

Chapters:

1. Aaron R. Rababaah, (2022). Pavement Cracks Inventory Management with Machine Deep Learning Models. Data Analytic and Artificial Intelligent Computing for Inventory and Supply Chain Management, in **Springer**. [**Accepted**].
2. Aaron R. Rababaah, (2021). Decision Support Model for Airport Intelligent Safety System, in **Taylor & Francis**. [**Accepted**].
3. Aaron R. Rababaah, (2021). Sound Events Classification - A Comparative Study of FFT, LPC and SBC Signal Processing Techniques, in **Taylor & Francis**. [**Accepted**].
4. Saed Amer, Landon Onyebueke & Aaron Rababaah (2021). Intelligent System for Integrating Customer's Voice with CAD for Seat Comfort, in **Taylor & Francis**. [**Accepted**].

17. REFEREED JOURNAL PUBLICATIONS

1. **Rababaah, A.** (2022). Intelligent Classification Model for Holy Quran Recitation Maqams. International Journal of Computational Vision and Robotics. [**Scopus-Elsevier, ACM, Clarivate, ProQuest**] [**Accepted**: IJCVR-119507. <https://www.inderscience.com/info/ingeneral/forthcoming.php?jcode=ijcvr>].

2. **Rababaah, A.** (2022). A Comparative Study between Convolution Neural Networks and Multi-Layer Perceptron Networks for Hand-written Digits Recognition. International Journal of Computational Vision and Robotics. [**Scopus-Elsevier, ACM, Clarivate, ProQuest**] [**Accepted:** IJCVR-107429 <https://www.inderscience.com/info/ingeneral/forthcoming.php?jcode=ijcvr>].
3. **Rababaah, A.** (2022). Intelligent Machine Vision Model for Building Architectural Style Classification based on Deep Learning. International Journal of Computer Applications in Technology. [**Scopus-Elsevier, ACM, Compendex, Clarivate, ProQuest**] [**Accepted:** <https://www.inderscience.com/jhome.php?jcode=ijcat>].
4. **Rababaah, A.** (2021). Wind Turbine Signal Fault Diagnosis using Deep Neural Networks-Inspired Model. International Journal of Computer Applications in Technology. [**Scopus-Elsevier, ACM, Compendex, Clarivate, ProQuest**] [**Accepted:** <https://www.inderscience.com/jhome.php?jcode=ijcat>].
5. **Rababaah, A.** (2021). Simulated Study of the Influence of Node Density on the Performance of Wireless Sensor Networks. International Journal of Sensor Networks, [**Scopus-Elsevier, ACM, Clarivate**] [**Accepted:** IJSN-327238: <https://www.inderscience.com/jhome.php?jcode=ijsn>].
6. **Rababaah, A.** (2021). Machine Learning Comparative Study for Human Posture Classification using Wearable Sensors" for the International Journal of Computing Science and Mathematics. [**Scopus-Elsevier, ACM, Compendex, Clarivate, ProQuest**] [**Accepted:** IJCSM-314901 <https://www.inderscience.com/jhome.php?jcode=ijcsm>].
7. **Rababaah, A.** & Wolfer, J. (August.29.2022). Convolution Neural Network Model for an Intelligent Solution to Crack Detection in Pavement Images. International Journal of Computer Applications in Technology, Vol. 68, No. 4, pp. 389-396. DOI: 10.1504/IJCAT.2022.10050313. [**Scopus-Elsevier, ACM, Compendex, Clarivate, ProQuest**] <https://www.inderscience.com/info/ingeneral/forthcoming.php?jcode=IJCAT>].
8. **Rababaah, A.** (July.22.2022). Deep Learning of Human Posture Image Classification using Convolutional Neural Networks. for the International Journal of Computing Science and Mathematics. Vol. 15, No. 3, pp. 273–288. [**Scopus-Elsevier, ACM, Compendex, Clarivate, ProQuest**]. <https://www.inderscience.com/jhome.php?jcode=ijcsm>].
9. **Rababaah, A.** (JUN.20.2022). A Novel Skin-Inspired Model for Intelligent Object Recognition in Sensor Networks. International Journal of Sensor Networks, Vol. 39, No. 2, pp. 93-105. [**Scopus-Elsevier, ACM, Compendex, Clarivate**] <https://www.inderscience.com/info/ingeneral/forthcoming.php?jcode=ijsnet>].
10. **Rababaah, A.** (APR.22.2022). Deep Learning Solution for Machine Vision Problem of Vehicle Body Damage Classification. International Journal of Computational Vision and Robotics. Vol. 12, No. 4, pp.426–442. [**Scopus-Elsevier, ACM, Clarivate, ProQuest**] <https://www.inderscience.com/info/ingeneral/forthcoming.php?jcode=ijcvr>].
11. **Rababaah, A.** (SEP.28.2021). 'Sensor networks simulation framework for target tracking applications: SN-SiFTTA', International Journal Web Engineering and Technology - IJWET, Vol. 16, No. 2, pp.113–138. DOI: 10.1504/IJWET.2021.117767. [**Scopus-Elsevier, ACM, Compendex, Clarivate, ProQuest**] <https://www.inderscience.com/info/ingeneral/forthcoming.php?jcode=ijwet>.
12. **Rababaah, A.** (SEP.09.2021). Enhancing Software Engineering Learning Environment with Computer Games: A Case Study. Journal of Engineering Education Transformation – JEET, Volume 35, Issue 1, pp. 126-143. [**Scopus-Elsevier**] <http://journaleet.in/index.php/jeet/issue/view/9514>.

13. H.S. Hota, Dinesh K. Sharma and **Rababaah, A.** (AUG.07.2021). Forecasting US Stock Price Using Hybrid of Wavelet Transforms and Adaptive Neuro Fuzzy Inference System. International Journal of System Assurance Engineering and Management. DOI: <https://doi.org/10.1007/s13198-021-01217-5>. [Q2 - Springer, EI-Compendex Elsevier, ESCI (WoS)-Clarivate, ProQuest] <https://www.springer.com/journal/13198>.
14. **Rababaah, A.** et al. (JAN.01.2021). Development of Robotic Model to Support Intelligent Vehicles Behaviors. *Global Journal of Modeling and Computational Intelligence – GJMCI*, Vol. 1, No. 1, pp. 50-59. Jan 2021.
15. **Rababaah, A.** and Rabaa'i, A.A. (2020) 'The need for a new master's program of applied computer science to cope with future demands of the industry: the case of State of Kuwait', *International Journal Higher Education and Sustainability*, Vol. 3, No. 2, pp.132–164.
16. **Rababaah, A.** (AUG.12.2020). Simple Imperative Model Programming Language for Education – SIMPLE. *STM Journals: Journal of Recent Trends in Programming Languages - RTPL*, ISSN: 2455-1821, Volume 7, Issue 2, pp. 18-39.
17. Ahmad Rabaa'i, **Rababaah, A.** (JUL.20.2020). Aligning Information Systems Program with the New ABET-CAC Criteria: The Case of the American University of Kuwait. *International Journal of Curriculum Development and Learning Measurement - IJCDLM*: Volume 1, Issue 2, Article 6. pp. 79-107, DOI: 10.4018/IJCDLM.2020070106.
18. **Rababaah, A.** (MAY.04.2020) Angle Histogram of Hough Transform as Shape Signature for Visual Object Classification – (AHOC). *International Journal Computational Vision and Robotics*, Vol. 10, No. 4, pp.312–336. [Scopus-Elsevier, ACM, Clarivate, ProQuest].
19. **Rababaah, A.**, Aya Kandil, Yossif Gharib & Ahmed Helwa, (2019). Visual Gesture Recognition for Drawing Applications, *Journal of Global Information Technology*, Vol. 14, No. 1 & 2, 2019, pp. 1-9.
20. **Rababaah, A.** & Ahmad A. Rabaa'I, (2018) "Student engagement integration to the assessment process: a proposed framework by the Computer Science Program at the American University of Kuwait", *International Journal Higher Education and Sustainability - IJHES*, Vol. 2, No. 2, pp.132–149.
21. **Rababaah, A.** (2018), Software Agent Based on Finite State Machine for Intelligent Surveillance Systems, *Journal of Global Information Technology*, Vol. 13, No. 1 & 2, 2018, pp. 14-25.
22. **Rababaah A.** & Ahmad A. Rabaa'I, (2018) Enhancing Programming Learning Environment with Physical Computing and Robotics: A Case Study of the American University of Kuwait, *International Journal Teaching and Case Studies*, Vol. 9, No. 4, 2018. Pp. 323-346. [EBSCO, ProQuest]
23. **Rababaah, A.** & Ahmad A. Rabaa'i, "Object Shape-Based Characterization in Intelligent Security Systems – A Comparative Study of Three Techniques", *Journal of Global Information Technology*, Vol. 12, No. 1 & 2, Dec 2017, pp. 35-45.
24. Ahmad Rabaa'i, **Rababaah, A.** & Shereef A. Maati. Comprehensive Guidelines for ABET Accreditation of a Computer Science Program: The Case of the American University of Kuwait, *International Journal of Teaching and Case Studies (IJTCS)*, Vol. 8, Nos. 2/3, 2017. Pp. 151-191. [EBSCO, ProQuest]
25. **Rababaah, A.** et al. Mechanical System Fault Detection using Intelligent Digital Signal Processing. *Journal of Machinery Manufacturing and Automation (JMMA)*, 2016, Vol. 5 Iss. 1, Pp. 27-39. <http://www.academicpub.org/jmma/>.

26. **Rababaah, A.** and Sharma, Dinesh K. (2015), "Integration of Two Different Signal Processing Techniques with Artificial Neural Network for Stock Market Forecasting", Journal of Management Information and Decision Science, Vol. 18, No. 2, pp. 63-80. [Scopus-Elsevier, ProQuest].
27. **Rababaah, A.** Ibibia K Dabipi, James B Burrows-McElwain and Siddig A. Mohamed. (2014). "Critical Events Monitoring and Tracking Using A Data Fusion Model in Air Traffic Systems", Journal of Global Information Technology (JGIT), Vol. 9, No. 1 & 2, 2014, pp. 1-9.
28. **Rababaah, A.**, Emin Kuscu, Amir Shirkhodaie. (2014). "Indoor Mobile Robot Localization Using IPS Cricket Technology", Journal of Global Information Technology (JGIT), Vol. 9, No. 1 & 2, 2014, pp. 18-23.
29. **Rababaah, A.** (2014) "A Machine-Vision Technique for Automated American Sign-Language Alphabets Recognition", Journal of Precision Instruments and Mechanology (PIM), Apr. 2014, Vol. 3 Iss. 2, PP. 159-168.
30. Sharma, Dinesh K. and **Rababaah, A.** (2014), "Stock Market Predictive Model Based on Integration of Signal Processing and Artificial Neural Network," Academy of Information and Management Sciences Journal, Vol. 17, No. 1, pp. 51-70.
31. **Rababaah, A.** (2014). "Sensor Network Data Processing via Algorithms Inspired by Image Processing Theory", Journal of Precision Instruments and Mechanology (PIM), Apr. 2014, Vol. 3 Iss. 2, PP. 159-168.
32. **Rababaah, A. (2013)**. "Adaptive Decision Support Technique for Machine Vision-Based Security Systems to Detect Anomalous Events", Precision Instrument and Mechanology Apr. 2013, Vol. 2 Iss. 2, PP. 94-103.
33. **Rababaah, A.** (2013). "Development of Man-Machine Interaction Commands Based on Vibration Signals", Journal of Global Information Technology (JGIT), Vol. 8, No. 1 & 2, 2013, pp. 20-28.
34. **Rababaah, A.** (2013). Ibibia K Dabipi, James B Burrows-McElwain and Siddig A. Mohamed. Data Fusion Model for Air Traffic and Events Visualization and Tracking to Enhance Operator's Focus of Attention on High Priority Situations That Need Immediate Response. International Journal of Decision Science & Information Technology, Vol. 5, No. 1, 2013, pp. 9-16.
35. **Rababaah, A.** (2012). Image-Based Multi-Sensor Data Representation and Fusion Via 2D Non-Linear Convolution. International Journal of Computer Science and Security (IJCSS), Volume (6): Issue (2): 2012, pp. 138-156.
36. **Rababaah, A.** and Emin Kuscu (2012). Mobile Robot Localization Via Efficient Calibration Technique of a Fixed Remote Camera. International Journal of Science & Informatics, Vol. 2, No. 1, Fall, 2012, pp. 23-32.
37. **Rababaah, A.** (2011). "Event Detection, Classification and Fusion for Non-Stationary Vehicular Acoustic Signals", International Journal of Science & Informatics, Vol. 1, No. 1, Fall, 2011, pp. 9-20.
38. **Rababaah, A.** (2010). Efficient Visual Tagging of Human Subjects in Intelligent Video Surveillance Systems. Journal of Global Information Technology (JGIT), Vol. 5, No. 1, 2010, pp. 21-33.

18. PEER-REVIEWED CONFERENCE PUBLICATIONS

1. **Rababaah A.** (2022). A Deep Learning based Process Model for Crack Detection in Pavement Structures. In 2022 9th International Conference on Computing for Sustainable Global Development (INDIACom); **IEEE** Conference ID: 51348, (pp. 1-6). doi: 10.23919/INDIACom54597.2022.9763286. **[IEEE]**.
2. **Rababaah, A.** et al. (2021). Store Management Automated System for Covid-19 Pandemic. American Institute of Management and Technology Proceedings (AIMTP) June 20-21, 2021, Volume 1, Number 1, pp. 78-82.
3. **Rababaah, A.** et al. (2021). Online Health Assessment Service for Covid-19 Pandemic - OHAS. American Institute of Management and Technology Proceedings (AIMTP) June 20-21, 2021, Volume 1, Number 1, pp. 83-88.
4. **Rababaah, A.** (2021). New Simulation Testbed for Large-Scale wireless Sensor Networks in Surveillance Applications. In *2021 8th International Conference on Computing for Sustainable Global Development (IEEE-INDIACom, March 17-19, 2021)*, (pp. 752-756). doi: 10.1109/INDIACom51348.2021.00134. **[IEEE]**.
5. **Rababaah, A.,** Anwar M As'ad, Khaled K Al-Arouj, Abrar T Al-Failakawi and Ahmed A Sultan (SEP.11.2020). Intelligent Navigator Vehicle for Effective Transportation – INVENT, *The Annual International Conference of Modern Technology and Management Institute – MTMI*, Online conference, Maryland, USA. Review of Business and Technology Research, Vol. 17, No. 2, ISSN: 1941-9406 (Print), 1941-9414 (CD)Vol. 17, No. 3, pp. 43-47.
6. **Rababaah, A.** (2020). A New Simple Programming Language for Education. Conference on Computing Education (IEEE.ICCSE, August 20-22, 2020), pp. 145-149. 10.1109/ICCSE49874.2020.9201755 **[IEEE]**.
7. **Rababaah, A.,** Aya Kandil, Yossif Gharib and Ahmed Helwa. (2019) Machine Vision-based Virtual Intelligent Drawing Software System. *The Annual International Conference of Modern Technology and Management Institute – MTMI*, Orlando, Florida, USA, September 21-22, 2019. Review of Business and Technology Research, Vol. 16, No. 1, pp. 11-15.
8. **Rababaah, A.** & Ahmad Rabaa'i, "Geometric 2D Shapes Recognition with Polar Signature Characterization and Template Matching", MTMI Annual International conference on Emerging Issues in Business, Technology and Applied Sciences, December 16-17, 2017. Dubai, UAE. (pp. 7-12).
9. **Rababaah, A.,** and Rabaa'i, Ahmad A. Utilization of Robotics as Contemporary Technology and an Effective Tool in Teaching Computer Programming. MTMI Annual International conference on Globalization and Competitiveness in Business & Technology. 22-23 September 2017, Virginia, USA. (pp. 8-13).
10. **Rababaah, A.** et al., "Software Simulator for Intelligent Health Monitoring System of Windfarm", The Annual International Conference MTMI 2016, Virginia Beach, September, 2016.
11. Ahmad A. Rabaa'i and **Rababaah, A.,** "The Use of Course Benchmarking Technique (CBT) to Assess Students' Outcomes for ABET Accreditation", Las Vegas, Nevada, World Congress in Computer Science proceedings, July 2016.
12. **Rababaah, A.** et al., "Analysis of Wind Turbine Gearbox Sensor Data", The Annual International Conference MTMI 2015, Virginia Beach, September, 2015.
13. **Rababaah, A.,** Rakesh Joshi, Brian Miller, "A 3D Graphical Approach for Visualizing Data Structures and Algorithms", The Annual International Conference MTMI 2015, Virginia Beach, September, 2015.
14. **Rababaah, A.** and Sharma, Dinesh K., "Forecasting Stock Indices Using Two Different Signal Processing Techniques with Back Propagation Neural Network," Paper presented at

the Allied Academies International Conference, San Francisco, California, October 9-11, 2014.

15. **Rababaah, A.**, "Development of Mobile Robotic Programming Course and Hands-On Lab for Undergraduates", The Annual International Conference MTMI 2014, Virginia Beach, September, 2014.
16. **Rababaah, A.** & Kyle Barker, "Implementation of Intelligent Robotic Behaviors for IRobot Create Using ISIDE And Matlab", The Annual International Conference MTMI 2014, Virginia Beach, September, 2014.
17. **Rababaah, A.**, Gurdeep S. Hura, Lindsei Berman, Esther Nwogu, Josh Nwogu, "Students' Robotics Competition Experience at The Annual ARTSI Conference", The Annual International Conference MTMI 2013, Virginia Beach, September, 2013.
18. **Rababaah, A.** and Saed Amer, "Vibration and Acoustic-Based Robot Commands Framework (VAC)", The Annual International Conference MTMI 2013, Virginia Beach, Septembers, 2013.
19. **Rababaah, A.**, Anggie Ramirez, Clifton White and Derik Robinson, "Design and Development of Vision-Based American Sign Language Alphabets Auto Recognition System", The Annual International Conference MTMI 2013, Virginia Beach, September, 2013.
20. **Rababaah, A.** and Sharma, Dinesh K., "SNIPS: Signal Processing and Neural Network-Based Intelligent Predictive System for Stock Forecasting," Paper presented at the Allied Academies International Conference, New Orleans, March 27-29, 2013.
21. **Rababaah, A.** & Akpezi G. Agbauduta, "Intelligent Security System Based on Machine Vision for Abnormal Events Classification", International Conference on Emerging Trends and Developments in Science, Management And Technology (ETDSMT-2013), 03.11.2013, Ghaziabad, India.
22. **Rababaah, A.** & Siddig A. Mohamed, "Application of Data Fusion Model as A Decision Support System to Enhance Situation Awareness In Air Traffic Safety And Security Systems", 92nd Annual Conference of Transportation Research Board, TRB 2013, Washington DC, USA, January 13-17, 2013, (Poster Presentation# P13-6197).
23. **Rababaah, A.**, Gurdeep S. Hura, Michael Phay, Anggie Ramirez, Chiamaka Francis and Jordan Wharton, "The Robotics Initiative at The Department of Math and Computer Science, UMES", The Annual International Conference MTMI 2012, New Carlton, MD, October 2012.
24. **Rababaah, A.**, Ibibia K Dabipi, James B Burrows-McElwain and Siddig A. Mohamed, "Application Of Data Fusion Model As A Decision Support System To Enhance Situation Awareness In Airtraffic Safety And Security Systems", The Annual International Conference MTMI 2012, New Carlton, MD, October 2012.
25. **Rababaah, A.** (2012). A Survey of Intelligent Visual Surveillance Systems. In International Conference on Image Processing, Computer Vision, and Pattern Recognition, volume 2, pages 1–7. (ICPV'12: July 16-19, 2012, USA). **[Scopus-Elsevier & ACM]**.
26. **Rababaah, A.** and Yotan Demi-Ejegi, "Automatic Visual Inspection System for Stamped Sheet Metals". Computer Science and Automation Engineering, IEEE, China, 05.2012. **[IEEE, Scopus-Elsevier]**.
27. **Rababaah, A.** and Eniye Tebekaemi, "Electric Load Monitoring of Residential Buildings using Goodness of Fit and Multi-Layer Perceptron Neural Networks", Computer Science and Automation Engineering, IEEE, China, 05.2012. **[IEEE, Scopus-Elsevier]**.

28. Sharma, Dinesh K. and **Rababaah, A.**, "Stock Market Indices Predictive Model Based on Artificial Neural Networks," Paper presented at the Allied Academies International Conference, New Orleans, April 4-6, 2012. (**Distinguished Research Award**).
29. **Rababaah, A.** et al., "Probabilistic Modeling and Simulation of Air Traffic Arrivals and Departures to Enhance Airport Capacity Planning", The Annual International Conference MTMI 2011.
30. **Rababaah, A.**, Emin Kuscu and Amir Shirkhodaie, "Vision-Based Indoor Mobile Robot Localization Technique Compared with Cricket Technology", The Annual International Conference MTMI 2011.
31. **Rababaah, A.** and Gurdeep Hura, "Development of Mobile Robotic Programming Course and Hands-On Lab for Undergraduates", The Annual International Conference MTMI 2011.
32. Amir Shirkhodaie, Vinayak Elangovan and **Rababaah, A.**, "Acoustic semantic labeling and fusion of human-vehicle interactions", Proceedings Volume 8050, Signal Processing, Sensor Fusion, and Target Recognition XX; 80500Q (2011) <https://doi.org/10.1117/12.883544>, Event: SPIE Defense, Security, and Sensing, 2011, Orlando, Florida, United States. [**Scopus**].
33. **Rababaah, A.**, Signal Characterization and Pattern Recognition for Vehicular Acoustic Events Classification, 2010 MTMI-NIT INTERNATIONAL CONFERENCE ON Global Issues in Business & Technology, (December 22 – December 24, 2010).
34. **Rababaah, A.**, Emin Kuscu, Amir Shirkhodaie, Indoor Mobile Robot Localization Using IPS Cricket Technology, 2010 MTMI-NIT INTERNATIONAL CONFERENCE ON Global Issues in Business & Technology, (December 22 – December 24, 2010).
35. **Rababaah, A.**, Alaa M. Rababaah, Compact Visual Identity Characterization (CVIC) To Enhance Information Verification in Video Security Systems, the Global Digital Business Annual Conference, 10 14-16, 2010.
36. Amir Shirkhodaie and **Rababaah, A.**, Multi-Layered Context Impact Modulation for Enhanced Focus of Attention of Situational Awareness in Persistent Surveillance Systems [SPIE-2010]. [**Web of Science, Scopus, Ei Compendex, Inspec**].
37. **Rababaah, A.** and Amir Shirkhodaie, Twitter-based Situation Reporting Interface for Hybrid Agent Networks in Surveillance Systems [SPIE-2010]. [**Scopus**].
38. Atindra K. Mitra, Amir shirkhodaie, **Rababaah, A.**. Distributed Sensor Concepts for Perimeter Surveillance and Vehicle Classification. Proc. SPIE-2009, Orlando, Florida (April 23-27, 2009). [**Web of Science, Scopus, Ei Compendex, Inspec**].
39. **Rababaah, A.** and Amir Shirkhodaie, Energy Logic (EL): A Novel Fusion Engine of Multi-Modality Multi-Agent Data/Information Fusion for Intelligent Surveillance Systems. Proc. SPIE-2009, Orlando, Florida (April 23-27, 2009). [**Web of Science, Scopus, Ei Compendex, Inspec**].
40. **Rababaah, A.** and Amir Shirkhodaie, Soft Adaptive Fusion of Sensor Energy for Large-Scale Sensor Networks (SAFE), Proc. SPIE-2009, Orlando, Florida (April 23-27, 2009). [**Web of Science, Scopus, Ei Compendex, Inspec**].
41. Saed Amer, Amir Shirkhodaie, and **Rababaah, A.**, UXO detection, characterization, and remediation using intelligent robotic systems, Proc. SPIE 6953, 69530P (2008). [**Web of Science, Scopus, Ei Compendex, Inspec**].
42. **Rababaah, A.** and Amir Shirkhodaie, Fusion-based multi-target tracking and localization for intelligent surveillance systems, Proc. SPIE 6943, 694313 (2008). [**Web of Science, Scopus, Ei Compendex, Inspec**].

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45. Teeradache Viangteeravat, Amir Shirkhodaie, and **Rababaah, A.** Acoustic signature analysis and data fusion of vehicles based on acoustic sensor arrays, Proc. SPIE 6567, 656705 (2007). [**Web of Science, Scopus, Ei Compendex, Inspec**].
46. Teeradache Viangteeravat, Amir Shirkhodaie, and **Rababaah, A.**, Multiple target vehicles detection and classification based on low-rank decomposition, Proceedings Volume 6566, Automatic Target Recognition XVII; 65660R (2007) <https://doi.org/10.1117/12.718770>, Event: Defense and Security Symposium, 2007, Orlando, Florida, United States. [**Web of Science, Scopus, Ei Compendex, Inspec**].
47. Amir Shirkhodaie and **Rababaah, A.**, Visual detection, recognition, and classification of surface-buried UXO based on soft-computing decision, Proc. SPIE 6553, 655328 (2007). [**Web of Science, Scopus, Ei Compendex, Inspec**].
48. **Rababaah, A.** and James Wolfer, "Cracking Pavement: An Assessment of the Multi-Layer Perceptron and the Self-Organizing Feature Map for Categorizing Asphalt Cracks", Safety, Health, and Environment World Congress, July, 2007.
49. James Wolfer and **Rababaah, A.**, "An Integrated Khepera and Sumo-Bot Development Environment for Assembly Language Programming", International Conference on Engineering and Computer Education **IEEE-ICECE**, November, 2005. [**IEEE**].
50. **Rababaah, A.**, Dana Vrajitoru, and James Wolfer, "Asphalt Pavement Crack Classification: A Comparison of GA, MLP, and SOM", GECCO, Genetic and Evolutionary Computation Conference Late-Breaking Paper, June, 2005. [**ACM**].
51. **Rababaah, A.**, Distributed Database Fundamentals and Research, a technical report submitted to the department of computer and information sciences at Indiana University of South Bend, may-2005, TR-20050525-1.

James Wolfer and **Rababaah, A.**, "Creating a Hands-On Robot Environment for Teaching Assembly Language Programming", Global Congress on Engineering and Technology Education, March, 2005.