

Aaron Rasheed Rababaah, PhD, PEV, IE.

Professor of Computer Science

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.
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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>

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3. **Rababaah, Aaron R.** (23.JUN.2023). CH10 - Sound Events Classification - A Comparative Study of FFT, LPC and SBC Signal Processing Techniques, in Applications of Mathematical Modeling, Machine Learning, and Intelligent Computing for Industrial Development, Edited By Madhu Jain, Dinesh K Sharma, Rakhee Kulshrestha, H.S. Hota, Taylor & Francis. <https://doi.org/10.1201/9781003386599>.
4. Saed Amer, Landon Onyebueke & **Rababaah, A.R.** (23.JUN.2023). CH14 - Intelligent System for Integrating Customer's Voice with CAD for Seat Comfort, in Applications of

Mathematical Modeling, Machine Learning, and Intelligent Computing for Industrial Development, Edited By Madhu Jain, Dinesh K Sharma, Rakhee Kulshrestha, H.S. Hota, Taylor & Francis. <https://doi.org/10.1201/9781003386599>.

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1. **Rababaah, A.** (09.NOV.2023). Machine Vision Algorithm for MCQ Automatic Grading - MVAAG, IJVC International Journal of Computational Vision and Robotics. [Q4: Scopus-Elsevier, ACM, Clarivate, ProQuest] [Accepted: IJCVR-149922].
2. **Rababaah, A.** (02.MAR.2024). Image-based extension to ant colony algorithm for path finding in grid-based environments. International Journal of System Assurance and Engineering Management (2024). <https://doi.org/10.1007/s13198-024-02281-3> [Q2: Springer, EI-Compendex Elsevier, ESCI (WoS)-Clarivate, ProQuest].
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10. **Rababaah, A.,** Ali Al-Ali, Fares Mohammad, Bader Al-Haram, Mohammad Ahmad. (JAN.2023). Facial Recognition Authentication. International Journal of Decision Science and Information Technology (IJDSIT), ISSN# 1973-9013, Volume 10, pp. 1-6.

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4. **Rababaah, A.**, Ahmed Hassan, Alexandre Thorgal Meulien, Ibrahim Abdulsalam, Farah AlTurkait, Tarek Dagar (5-6 Aug, 2022). Introduction to Robotics Remote/Voice Controlled Car. 2022 USTM-AIMT SUMMER International Conference
5. **Rababaah, A.** (23-25 MAR, 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**].
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12. **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).
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14. **Rababaah, A.** et al., "Software Simulator for Intelligent Health Monitoring System of Windfarm", The Annual International Conference MTMI 2016, Virginia Beach, September, 2016.

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16. **Rababaah, A.** et al., "*Analysis of Wind Turbine Gearbox Sensor Data*", The Annual International Conference MTMI 2015, Virginia Beach, September, 2015.
17. **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.
18. **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.
19. **Rababaah, A.**, "*Development of Mobile Robotic Programming Course and Hands-On Lab for Undergraduates*", The Annual International Conference MTMI 2014, Virginia Beach, September, 2014.
20. **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.
21. **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.
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