
Curriculum Vitae

Dr. Hasan Rashaideh -Al-Balqa Applied University- Al Salt, Jordan.

Name: Hasan Rashaideh

Academic Rank: Associate professor

Department: Department of Computer Science

Faculty: Prince Abdullah Ben Ghazi Faculty of ICT-BAU

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Field of Specialization:

- Major: Computer Science

- Minor: System Analysis, Information Processing and Control

- Research Interest: Artificial intelligence, System analysis, Pattern Recognition, Arabic Character recognition, Text Clustering, Text Compression, Information Retrieval, Numerical Analysis and Optimization, Spam Filtering.

Education	Specialization	Graduation Year	University	Country	Title of the Dissertation
Ph.D.	Computer Science - System Analysis, Information Processing and Control	2009	Saint Petersburg Electro Technical University (LETE)	Russia Federation	Research and Development Algorithms for Recognition, Identification and Detection of Arabic Language Alphabets
MSc.	Computer Science and Information	2003	Yarmouk University	Jordan	Online Arabic Character recognition
BSc.	Computer Science	1999	Yarmouk University	Jordan	

University Courses Taught:

- Undergraduate courses: Algorithm Analysis and Design, Theory of Computation, Programming Languages, Compiler Design, Image processing and Computer Vision, Data Structures, Java Programming, Object-Oriented Programming, C++ Programming.

Graduate courses: Algorithm Theory, Computer Vision and Image Processing, Programming languages Design, Graduation project.

Administrative Experience:

- 2021-present: Vice dean/ Prince Abdulla bin Ghazi of ICT
- 2015– to 2018: Head of Computer Science Department ‘Prince Abdullah Bin Ghazi Faculty of Information Technology ‘Al-Balqa Applied University ‘Al Salt, Jordan.
- 2011– to 2018: Head of Departmental Curriculum Committee in Computer

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Science Department, Prince Abdullah Bin Ghazi Faculty of Information Technology ,Al-Balqa Applied University ,Al Salt ,Jordan.

- **2015– to 2018: Head of Curriculum Committee for Computer Graphics and Animation Program, Prince Abdullah Bin Ghazi Faculty of Information Technology ,Al-Balqa Applied University ,Al Salt ,Jordan.**
- **2016– to 2018: Head of Curriculum Committee for Cyberspace and Information Security Program, Prince Abdullah Bin Ghazi Faculty of Information Technology ,Al-Balqa Applied University ,Al Salt ,Jordan.**
- **2017– to 2018: Head of the ABET (Accreditation Board for Engineering and Technology) Committee in the Computer Science Department, ,Al-Balqa Applied University ,Al Salt, Jordan.**
- **2018– to 2019: Member of Data Science Program Committee in the AI Department, AI Faculty, Al-Balqa Applied University ,Al Salt, Jordan.**

Students Supervision:

1. Suhaib M. Rashaideh, “Solving Fuzzy Boundary Value Problems using Differential Evolution Algorithm”, MSc. Thesis in Computer Science. Al-Balqa Applied University, 2018.
2. Hadeel Ziad Al-awaisheh, “Analytical Profile Index Interpreter10S by Applying Image Processing Techniques”, MSc. Thesis in Computer Science. Al-Balqa Applied University, 2017.
3. Abdallah M.Al-Twaiqat, “Local Features Detector and Descriptor for Arabic Handwritten Word Recognition”, MSc. Thesis in Computer Science, Al-Balqa Applied University, 2017.
4. Ra’ad Hashem Al-Nsour, “Detection of Spam Email Using Multiple Classifiers and Features”, MSc. Thesis in Computer Science, Al-Balqa Applied University, 2013.
5. Hiba Khreesat “Arabic Text Compression using Word Root”, MSc. Thesis in Computer Science, Al-Balqa Applied University, 2012.
6. Rasha Al Fawaer “Data Classification using Artificial Neural Networks for Medical Applications”, MSc. Thesis in Computer Science. Al-Balqa Applied University, 2011.

Honors, Academics Awards:

- **Scientific Publications Rewards, Al-Balqa Applied University, 2017**
- **Best Paper Rewards ,IEEE 2016 International Conference on Engineering & MIS (ICEMIS), Computer and Education session, paper title:” A Novel Optimization Algorithm for Solving Two-Point Boundary Value Problems”**

Meeting and Conferences:

- **2015 International Conference on Engineering & MIS (ICEMIS), Istanbul, Turkey — September 24 - 26, 2015**
- **2016 IEEE International Conference on Engineering & MIS (ICEMIS), Agadir, Morocco — September 22-24, 2016**

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Dr. Hasan Rashaideh -Al-Balqa Applied University- Al Salt, Jordan.

- **ICIT 2015-Big Data The 7th International Conference on Information Technology, Amman, Jordan — May 12 - 15, 2015**
- **ICIT 2013 the 6th International Conference on Information Technology, Amman, Jordan — May 8 - 10, 2013**

Publications:

1. **Al-Rashaideh, Hasan.** Preprocessing phase for Arabic word handwritten Recognition // Information Processes – 2006. – Vol. 6, № 1, – pp. 11 – 19.
2. **Al-Rashaideh, Hasan.** Arabic-Indic number recognition using combining multiple classifiers and multiple feature vectors // In: 2nd Jordan International Conference on Computer Science & Engineering (JICCSE). Jordan, Amman, Dec 2006, – pp. 67 – 73.
3. S.V. Kuleshov, A.A. Zaitseva, **Al-Rashaideh Hasan.** Method of rank distributions for detection of unapproved insertions in video data stream.// Tr. SPIIRAN, 2006, Issue 3, Volume 2, Pages 96–101.
4. Shihadeh Alqrainy, Hasan Almuaidi, **Hasan Rashaideh,** Marwan Alseid “Toward Developing A Universal And Standard System For Transliteration And Transcription Arabic Language” in International Business Information Management Conference (15th IBIMA) ,Egypt, Cairo, November 2010. ISBN: 978-0-9821489-4-5
5. Habes Alkhraisat, **Hasan Rashaideh,** Dynamic Inertia Weight Particle Swarm Optimization for Solving Nonogram Puzzles, International Journal of Advanced Computer Science and Applications, Volume 7 Issue 10 October 2016.
6. Alkhraisat Habes, **Hasan Rashaideh,** "Multiversion Thomas' Write Rule Timestamp-based Concurrency Control", International Journal of Computer Science Issues, Volume 12, Issue 3, May 2015.
7. O. A. Alzubi, T. M. Chen, J. A. Alzubi, H. Rashaideh, and N. Al-Najdawi, “Secure channel coding schemes based on algebraic-geometric codes over hermitian curves,” J. Univers. Comput. Sci., vol. 22, no. 4, 2016.
8. O. Abu Arqub, **H. Rashaideh,** and S. Aljawarneh, “Numerical Simulation for Fuzzy Fredholm Integral Equations Using Reproducing Kernel Algorithm,” 7th Int. Conf. Inf. Technol., vol. 2015, pp. 497–501, 2015.
9. O. Abu Arqub and **H. Rashaideh,** “Solution of LANE-EMDEN Equation by Residual Power Series Method,” in ICIT 2013 The 6th International Conference on Information Technology, 2013, pp. 2–7.
10. O. Abu-arqub, Z. Abo-hammour, and **H. Rashaideh,** “Application of Continuous Genetic Algorithm for Second-Order Singular Boundary Value Problems,” in ICIT 2011 The 5th International Conference on Information Technology, 2011.
11. J. Atwan, M. Mohd, **H. Rashaideh,** and G. Kanaan, “Semantically enhanced pseudo relevance feedback for Arabic information retrieval,” J. Inf. Sci., vol. 42, no. 2, 2016.
12. **H. Rashaideh,** H. Alkhraisat, and A. Ghazo, “Building a context image-based search engine using multi clustering technique,” in ACM International Conference Proceeding Series, 2015, vol. 24–26–Sept.
13. Aljawarneh, Shadi, Al-shargabi, Bassam and **Rashaideh, Hasan.** 2013. Gene classification: A review. In Proceedings of IEEE ICIT.
14. Alnagdawi, Mohammad A, **Rashideh, Hasan** and Aburumman, Ala Fahed. 2013.

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Dr. Hasan Rashaideh -Al-Balqa Applied University- Al Salt, Jordan.

- Finding Arabic Poem Meter using Context Free Grammar. .
15. Aloglah, Roba Mahmoud Ali, **Rashaideh, Hasan** and Al-Kharabsheh, Firas Hani Abed. 2016. An Efficient Genetic Algorithm and Logical Rule for Solving Nonogram Puzzle. *International Journal of Computer Science and Information Security* 14 (9): 461.
 16. Alweshah, Mohammed, **Rashaideh, Hasan**, Hammouri, Abdelaziz I, Tayyeb, Hanadi and Ababneh, Mohammed. 2017. Solving time series classification problems using support vector machine and neural network. *International Journal of Data Analysis Techniques and Strategies* 9 (3): 237--247.
 17. Alzubi, Omar A, Chen, Thomas M, Alzubi, Jafar A, **Rashaideh, Hasan** and Al-Najdawi, Nijad. 2016. Secure Channel Coding Schemes based on Algebraic-Geometric Codes over Hermitian Curves.. *J. UCS* 22 (4): 552--566.
 18. Alzubi, Omar, Alzubi, Jafar, Tedmori, Sara, **Rashaideh, Hasan** and Almomani, Omar. 2018. Consensus-Based Combining Method for Classifier Ensembles.. *International Arab Journal of Information Technology (IAJIT)* 15 (1).
 19. Arbain, Nur Atikah, Azmi, Mohd Sanusi, Melhem, Laith Bany, Kamilah, Azah and **Rashaideh, Hasan**. Enhancement of Triangle Coordinates For Triangle Features For Better Classification. .
 20. Arqub, Omar Abu and **Rashaideh, Hasan**. 2017. The RKHS method for numerical treatment for integrodifferential algebraic systems of temporal two-point BVPs. *Neural Computing and Applications* (1433-3058): 1--12.
 21. Arqub, Omar Abu and **Rashaideh, Hasan**. 2013. Solution of LANE-EMDEN Equation by Residual Power Series Method. In *ICIT 2013 The 6th International Conference on Information Technology*, 2--7. .
 22. Arqub, O Abu, **Rashaideh, H** and Aljawarneh, S. 2015. Numerical Simulation for Fuzzy Fredholm Integral Equations Using Reproducing Kernel Algorithm. In *7th Int. Conf. Inf. Technol*, 497--501. .
 23. Atwan, Jaffar, Mohd, Masnizah, **Rashaideh, Hasan** and Kanaan, Ghassan. 2016. Semantically enhanced pseudo relevance feedback for arabic information retrieval. *Journal of Information Science* 42 (2): 246--260.
 24. O.A. Alzubi, T.M. Chen, J.A. Alzubi **H. Rashaideh** N. Al-Najdawi. 2016. Secure Channel Coding Schemes based on Algebraic-Geometric Codes over Hermitian Curves. *Journal of Universal Computer Science* 22 (4): 15.
 25. **Rashaideh, Hasan**. 2017. An Adaptive Differential Evolution Algorithm for Solving Second-Order Dirichlet Problems. *IADIS International Journal on Computer Science & Information Systems* 12 (1).
 26. **Rashaideh, Hasan**. 2016. A novel optimization algorithm for solving two-point boundary value problems. In *Engineering & MIS (ICEMIS), International Conference on*, 1--4..
 27. **Rashaideh, Hasan**, Ahmad Sawaie, Mohammed Azmi Al-Betar, Laith Mohammad Abualigah, Mohammed M. Al-Laham, M. Ra'ed, and Malik Braik. "A grey wolf optimizer for text document clustering." *Journal of Intelligent Systems* 29, no. 1 (2018): 814-830.
 28. **Rashaideh, H.**, Shaheen, A., & Al-Najdawi, N. (2019). Real-time image encryption and decryption methods based on the Karhunen-Loeve transform. *International Journal of Intelligent Engineering Informatics*, 7(5), 399-421.

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References:

- **Professor Alexandrov, Victor V., Dr. Sci. (Tech), PhD, Honored Scientist of the Russian Federation, Chief Researcher, Russian Academy of Science, e-mail: alexandr@mail.iias.spb.su**
- **Professor Ghassan Kannan, Vice President, Amman Arab University e-mail: gkanaan@aau.edu.jo**
- **Professor Saleh Oqaili, President, Jadara University e-mail saleh_jo@yahoo.com,saleh@bau.edu.jo.**
- **Associate Professor Nijad Al-Najdawi, Dean, Prince Abdullah Bin Ghazi Faculty of Science and Information Technology, Al-Balqa Applied University e-mail: n.al-najdawi@bau.edu.jo**
- **Professor Mohammad Ababneh, Former Dean of Prince Abdullah Bin Ghazi Faculty of Science and Information Technology, Al-Balqa Applied University e-mail:ababnahjo@yahoo.com**