

Date 02/10/2024

**Ahmad Mansour Alhawarat**



**PERSONAL INFORMATION**

Title :Faculty member

Academic Rank :Assistant Professor

Date & Place of Birth: 06/06/1986. Amman, Jordan

Nationality: Jordanian

Address: Amman, Jordan

Phone No.: 0780233746

Email: abadee2010@yahoo.com

**ACADEMIC QUALIFICATIONS**

Degree	Major	Duration (From-To)	University	Country
Ph.D	Mathematics	2013-2016	University Malaysia Terengganu	Malaysia
Master's	Mathematics	2007-2010	Mutah University	Jordan
Bachelor's	Mathematics	2004-2007	Jordan University of Science and Technology	Jordan

**TEACHING EXPERIENCE**



دائرة الموارد البشرية  
Human Resources Department

Duration	Rank	Institution	Department/Faculty	Country
2024- until now	Assistant Prof	Amman Arab University	Arts and Science	Jordan
2020-2021	Postdoctoral	Ton Duc Thang	Division of Computational Mathematics and Engineering, Institute for Computational Science,	Vietnam
2016-2019	Assistant Prof	Al Isra University	Arts and Science	Jordan
2014-2016	Teaching Assistant	Universiti Malaysia Terengganu	Department of Mathematics, Faculty of Ocean Engineering Technology and Informatics,	Malaysia
2011-2014	Lecturer	Jazan University	Department of Mathematics	KSA
2007-2010	Teacher	Ministry of education	Ministry of education	Jordan

**PUBLICATIONS**

**Alhawarat, A.**, Alolaiyan, H., Masmali, I. A., Salleh, Z., & Ismail, S. (2021). A descent four-term of Liu and Storey conjugate gradient method for large-scale unconstrained optimization problems. *European Journal of Pure and Applied Mathematics*, 14(4), 1429-1456.

**Alhawarat, A.**, & Salleh, Z. (2015). A brief survey of conjugate gradient method. *International Journal of Innovative Technology & Adaptive Management*, 1(12), 6-15.

**Alhawarat, A.**, & Salleh, Z. (2017). Modification of nonlinear conjugate gradient method with weak Wolfe-Powell line search. *Abstract and Applied Analysis*, 2017, Article ID 7238134. <https://doi.org/10.1155/2017/7238134>.

**Alhawarat, A.,** Mamat, M., Mohd, I., & Salleh, Z. (2015). An efficient hybrid conjugate gradient method with the strong Wolfe-Powell line search. *Mathematical Problems in Engineering*, 2015, Article ID 103517. <https://doi.org/10.1155/2015/103517>.

**Alhawarat, A.,** Salleh, Z., & Masmali, I. A. (2021). A convex combination between two different search directions of conjugate gradient method and application in image restoration. *Mathematical Problems in Engineering*, 2021. <https://doi.org/10.1155/2021/7896537>.

**Alhawarat, A.,** Salleh, Z., Alolaiyan, H., El Hor, H., & Ismail, S. (2024). A three-term conjugate gradient descent method with some applications. *Journal of Inequalities and Applications*, 2024(1), 73. <https://doi.org/10.1186/s13660-024-00173-x>.

**Alhawarat, A.,** Zabidin, S., & Masmali, I. A. (2021). A convex combination between two different search directions of conjugate gradient method and application in image restoration. *Mathematical Problems in Engineering*, 2021, Article ID 3498765. <https://doi.org/10.1155/2021/3498765>.

**Alhawarat, Ahmad,** et al. (2017). An efficient modified Polak–Ribière–Polyak conjugate gradient method with global convergence properties. *Optimization Methods and Software*. <https://doi.org/10.1080/10556788.2017.1403380>.

**Alhawarat, Ahmad,** et al. (2021). An efficient modified AZPRP conjugate gradient method for large-scale unconstrained optimization problem. *Journal of Mathematics*, 2021. <https://doi.org/10.1155/2021/4957836>.

**Alhawarat, Ahmad.** (2023). Modified parameter of Dai Liao conjugacy condition of the conjugate gradient method. *arXiv preprint arXiv:2304.06694*. <https://arxiv.org/abs/2304.06694>.

Baluch, B., Salleh, Z., & **Alhawarat, A.** (2018). A new modified three-term Hestenes–Stiefel conjugate gradient method with sufficient descent property and its global convergence. *Journal of Optimization*, 2018, Article ID 5057096. <https://doi.org/10.1155/2018/5057096>.

Omar, A., Mamat, M., **Alhawarat, A.,** & Rivaie, M. (2018). A modification of CG method for unconstrained optimization with global convergence. *International Journal of Engineering & Technology, Special Issue*.

Salleh, Z., Alhamzi, G., Masmali, I., & **Alhawarat, A.** (2021). A modified Liu and Storey conjugate gradient method for large scale unconstrained optimization problems. *Algorithms*, 14(8), 227. <https://doi.org/10.3390/a14080227>.

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Salleh, Z., Almarashi, A., & **Alhawarat, A.** (2022). Two efficient modifications of AZPRP conjugate gradient method with sufficient descent property. *Journal of Inequalities and Applications*, 2022(1), 1-21. <https://doi.org/10.1186/s13660-022-02730-7>.

المؤتمرات

**Alhawarat, A.**, Mamat, M., Mohd, I., & Rivaie, M. (2014). An efficient modified Polak-Ribiere-Polyak conjugate gradient method with global convergence properties. In *Proceedings of International Conference on Computational and Applied Mathematics (ICCAM 2014)*, Dubai, UAE.

**Alhawarat, A.**, Mamat, M., Mohd, I., & Rivaie, M. (2014). A new previous search direction multiplier for nonlinear conjugate gradient method. In *Proceedings of the Third International Conference on Global Optimization and its Application*, Yogyakarta, Indonesia.

**Alhawarat, A.**, Mamat, M., Rivaie, M., & Salleh, Z. (2014). A new modification for nonlinear conjugate gradient method. In *Proceedings of Kolokium Siswazah Informatik and Matematik*, University Malaysia Terengganu.

Salleh, Z., **Alhawarat, A.**, Mamat, M., & Rivaie, M. (2014). An efficient modification of nonlinear conjugate gradient method. In *Proceedings of the 10th IMT-GT International Conference on Mathematics Statistics and its Application (ICMSA 2014)*, Terengganu, Malaysia.

**Alhawarat, A.**, Mamat, M., Rivaie, M., & Salleh, Z. (2014). A new modification for NPRP nonlinear conjugate gradient method with global convergence properties. In *IUM Engineering Congress 2014*, Kuala Lumpur, Malaysia.

**Alhawarat, A.**, & Salleh, Z. (2015). A brief survey of conjugate gradient method. In *Proceedings of the 2015 Postgraduate Colloquium on Informatics and Mathematics*, 27-29 Oct 2015, Terengganu, Malaysia.

دائرة الموارد البشرية  
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**BOOKS**

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Author/s (In Order)	Title	Publisher	Edition	Date
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**MEMBERSHIPS OF SCIENTIFIC AND PROFESSIONAL SOCIETIES**

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- American mathematical Society

**UNIVERSITY COMMITTEES**

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- Quality Assurance Committee
- Exams Committee

**WORKSHOPS ATTENDED**

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دائرة الموارد البشرية  
**Human Resources Department**

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- Building an electronic file
  - Registration system and electronic portal for faculty members
  - Managing Google and Research Gate accounts Scholar
  - Scientific research and postgraduate studies instructions
  - How to prepare for exams correctly
  - Plagiarism check and Turnitin program
  - Applying for international projects
  - Recording and editing lectures and educational videos
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**WORKSHOPS OFFERED**

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- 1- New teachers workshop
- 2- Course file workshop

**RESEARCH INTERESTS**

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Applied mathematics, Optimization, Numerical analysis

**LANGUAGES**

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Arabic (Native)

English (Good)

**OTHER COMMUNITY ACTIVITIES**

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**AWARDS RECEIVED**

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Scholarship from Malaysian Ministry of higher education for Ph. D degree

## REFERENCES

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- (1) Name: Prof: Ramadan Sabra  
Position: Faculty Member of the Department of Political Sciences at Jordan University  
Email: dr.ramadansabra@outlook.com
  
- (2) Name: Dr. Zabidin Salleh  
Position: Department of Mathematics, Faculty of Ocean Engineering Technology and Informatics, Universiti Malaysia Terengganu, Kuala Nerus 21030, Terengganu, Malaysia  
Email: zabidin@umt.edu.my