

# Academic Curriculum Vitae



## Personal Information:

Full Name: Herish Omer Abdullah

Academic Title: Professor

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## Education:

- 2007 **Ph.D.** in Graph Theory, Department of Mathematics, College of Science, Salahaddin University-Erbil, Kurdistan Region-Iraq.

Title of Ph.D. Thesis

**Hosoya Polynomials of Steiner Distance of Some Graphs.**

- 1998 **M.Sc.** in Applied Algebra (Group Representation Theory), School of Applied Sciences, Department of Mathematics, University of Technology-Baghdad, Iraq.

Title of M.Sc. Thesis:

**Some Computational Results on the Factor Group  $K_{Z_p}^{(n)}$ .**

- 1991 **B.Sc.** in Mathematics, Department of Mathematics, College of Science, Salahaddin University- Erbil, Kurdistan.
- 1986 **High School** degree, Kurdistan Secondary School, Erbil, Kurdistan Region-Iraq.

## Experiences:

- 7-1-2024: Professor, Department of Mathematics, College of Science, Salahaddin University -Erbil.
- 2015 to 2023: Dean of College of Sciences, Salahaddin University-Erbil.
- 2018 to 2019: General Director of the research center of Salahaddin University-Erbil.
- Member of the American Mathematical Society AMS (2011).
- 2010: Assistant Professor, Department of Mathematics, College of Science, Salahaddin University -Erbil.

- 2008 to 2015: Head of the Department of Mathematics, College of Science, Salahaddin University- Erbil.
- 2007-2008: Assistant Dean / College of Science, Salahaddin University- Erbil.
- 2007: Lecturer, Department of Mathematics, College of Science, University of Salahaddin- Erbil.
- 2002-2004: Registrar of the College of Science, Salahaddin University- Erbil.
- 1999-2002: Coordinator of Department of Mathematics, College of Science, Salahaddin University- Erbil.
- 1998: Assistant Lecturer, Department of Mathematics, College of Science, University of Salahaddin- Erbil.

### **Visits, Schools, Workshops & Conferences**

- Chair of the Organizing Committee of the Third International Conference of Mathematics and its Applications (TICMA2022). <https://su.edu.krd/ticma2022/>
- Co-Chair of the Organizing Committee of the Festival awarding an honorary Ph.D. to Caucher Birkar at Salahaddin University-Erbil, March 27, 2019.
- Chair of the Organizing Committee of the Second international conference of Mathematics in Erbil(SICME2019), 2019.  
<http://su.edu.krd/sicme2018/>
- Chair of the Organizing Committee of West Asia Mathematical School, WAMS-CIMPA, Kurdistan-Iraq: **Control and Optimization with Industrial Applications**, December, 19-28, 2018. [science.su.edu.krd](http://science.su.edu.krd)
- Chair of the Organizing Committee of West Asia Mathematical School, WAMS-CIMPA, Kurdistan-Iraq: **Boundary Value Problem and Approximations**, December, 20-30, 2015. [science.su.edu.krd](http://science.su.edu.krd)
- Chair of the Organizing Committee of CIMPA Research School, Kurdistan-Iraq: **Inverse Problems**, Theory and Applications, May, 5-14, 2014.
- From 2009 to date Chair of the Organizing Committee of CIMPA-Workshops at Department of Mathematics, College of Science, Salahaddin University.
- Chair of the Organizing Committee of the First Iraqi-French Conference of Mathematics, 2009.
- December 16, 2011 till June 16, 2012; Sabbatical leave to the University of Pierre et Marie Curie (Paris 6)/ France.
- December 30, 2009, till January 30, 2010 Visit to the University of Saint-Etienne/ France for developing cooperation and joint research.
- Organizing the following workshops & seminars at Salahaddin University- Hawler, College of Science
  - Caucher Birkar, University of Cambridge, *Algebraic Geometry*, 25 of November to 3 of December, 2010, CIMPA workshop.

- Reza Sazeedeh, University of Urmia- Iran, *A Mini-Course on Commutative Algebra*, 3- 11 January 2011, CIMPA workshop.
  - Sahib Qahraman, Ministry of Plan- KRG, *Statistics and its applications*, 6- 8 February, 2011.
  - Michel Jambu, Centre International de Mathématiques Pures et Appliquées, *Some Topics in Mathematics*, February 10 to February 16, 2011, CIMPA Seminar.
  - Alain Faisant, Saint-Etienne, *Number Theory*, 4-11 April 11, 2011, CIMPA Seminar.
- IPM-CIMPA-UNESCO-School, Tehran, Representation of Algebra (2007).

## Research and Publications:

1. Herish O. Abdullah, Ivan Dler Ali and Rashad Rashid Haji; (2023), “**Average Distance and Average Restricted Detour Distance of a Straight Chain of k-Wheels Graph**”, Palestine Journal of Mathematics, Vol. 12(4)(2023) , 399-409.
2. Herish O. Abdullah and Ivan Dler;(2020), “**Restricted Detour Polynomial of a Straight Chain of Wheel Graphs**”, Al-Rafiden Journal of Computer Sciences and Mathematics, Vol. 17, No. 1, 2023 (99-106).
3. Herish O. Abdullah; (2023), “**Steiner Wiener Index of Certain Windmill Graphs**”, Zanco Journal of Pure & Applied Sciences, Accepted for publication.
4. Zhian Omar, Herish O. Abdullah and Ahmed Ali;(2022), “**D-index for a Chain of Hexagonal Cycles**”, Palestine Journal of Mathematics, Vol. 12(Special Issue I)(2023).
5. Herish O. Abdullah, Zhian Omar and Ahmed Ali;(2022), “**Detour Polynomial of Theta Graph**”, Iraqi Journal of Science, Volume (64) Issue (7), 2023.
6. Razie Alidehi-Ravandi and Herish O. Abdullah;(2023), “**Topological Indices of Drug Molecular Structures: An Application with the Treatment and Prevention of COVID-19**”, Journal of Discrete Mathematics and Its Applications, (2) (2023) 83–103.
7. Herish Abdullah, Andam Ali Mustafa, Francesco Pappalardi;(Accepted), “**Divisibility of reduction in groups of rational numbers II**”, International Journal of Number Theory.
8. Herish Abdullah, Andam Ali Mustafa, Francesco Pappalardi;(2021), “**DENSITY OF THE QUASI r-RANK ARTIN PROBLEM**”, Functiones et Approximation.
9. Ahmed Mohammed Ali, Herish O. Abdullah and Gashaw A. Mohammed-Saleh;(2021), “**Hosoya polynomials and Wiener indices of carbon nanotubes using mathematica programming**”, Journal of Discrete Mathematical Sciences & Cryptography, ISSN 2169-0065(Online).
10. Herish O. Abdullah and Ivan Dler;(2021), “**The restricted detour polynomials of a prism and some wheel related graphs**”, Journal of Information and Optimization Sciences.
11. Herish O. Abdullah and Ivan Dler;(2020), “**Restricted detour polynomial of the theta graph**”, Al-Rafiden Journal of Computer Sciences and Mathematics, Vol. 14, No. 1.
12. Herish O. Abdullah and Zhian I. Omar;(2019), “**Edge restricted detour index of some graphs**”, Journal of Discrete Mathematical Sciences and Cryptography, ISSN 0972-0529 (Print), ISSN 2169-0065 (Online).
13. Ivan Dler Ali and Herish O. Abdullah;(2017), “**Restricted detour polynomial of edge identification of two-wheel graphs**”, AIP Conference Proceedings 1888, 020011 (2017).

14. Gashaw A. Mohammed-Saleh, Herish O. Abdullah; and Mohammed R. Ahmed(2017), “**The restricted detour polynomials of some classes of thorn graphs**”, AIP Conference Proceedings 1888, 020046 (2017).
15. Gashaw A. Mohammed-Saleh, Herish O. Abdullah; and Mohammed R. Ahmed(2017), “**The Restricted Detour Polynomials of a Ladder  $L_n$  and a Möbius Ladder  $ML_n$** ”, ZANCO Journal of Pure and Applied Sciences 29(4): 105-119 (2017).
16. Gashaw A. Mohammed-Saleh, Herish O. Abdullah; and Mohammed R. Ahmed(2017), “**The Restricted Detour Polynomial of a Ladder Graph**”, Journal of Zankoy Sulaimani (2017) 19 – 2 (Part-A).
17. Herish O. Abdullah and Mohammad Eftekhari;(2013), “ **Cryptanalysis and Improvements on Some Graph-Based Authentication Schemes**“, TARU Publications, Vol. 16, 297-306.
18. Herish O. Abdullah and Ali A. Aziz;(2011), **Hosoya Polynomials of Steiner Distance of Some Graphs**, LAMBERT Academic Publisher, UK.
19. Herish O. Abdullah;(2010), “**Hosoya Polynomials of Steiner Distance of the Composition of Graphs**”, Zanco Journal of Pure & Applied Sciences, Vol. 22, No.3.
20. Herish O. Abdullah and Gashaw Aziz Hama-Salh;(2009), “**Detour Hosoya Polynomials of Some Compound Graphs**”, Al-Rafiden Journal of Computer Sciences and Mathematics.
21. Herish O. Abdullah;(2008), “**Hosoya Polynomials of Steiner Distance of the Sequential join Graphs**”, Al-Rafiden Journal of Computer Sciences and Mathematics.
22. Ali A. Aziz and Herish O. Abdullah;(2008), “**Hosoya Polynomials of Steiner Distance of Complete m-Partite Graphs and Straight Hexagonal Chains**”, Al-Rafiden Journal of Computer Sciences and Mathematics, Vol. 15, No. 1.
23. Ali A. Aziz and Herish O. Abdullah;(2008), “**Hosoya Polynomials of Steiner Distance of an m-Cube and the Square of a path**”, Al-Rafiden Journal of Computer Sciences and Mathematics, Vol. 21, No. 2.
24. Ali A. Aziz and Herish O. Abdullah;(2007), “**Hosoya Polynomials of Steiner Distance of the Sequential Join of Empty Graphs and of Complete Graphs**”, Al-Rafiden Journal of Computer Sciences and Mathematics, Vol. 10, No. 1.

### **Modules Taught:**

- Finite Mathematics.
- Calculus I, II, III.
- Graph Theory, M.Sc. & Ph.D. Courses.
- Abstract Algebra.
- Numerical Analysis.
- Number Theory & Cryptography

## **Funding and academic awards**

## **Professional memberships**

## **Professional Social Network Accounts:**

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