
Kuwait University - Curriculum Vitae



جامعة الكويت
KUWAIT UNIVERSITY

Associate Professor
Abdullah Alazemi

December 2022

1. PERSONAL DATA

Full Name	: Abdullah Saad Alazemi
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Web of Science Researcher ID	: AAU-4893-2021

2. ACADEMIC QUALIFICATION

2.1 Educational Background

Degree	University	Country (Year)	Field of Specialization
Ph. D.	Colorado State University	USA (2007)	Combinatorics and Graph Theory
	Dissertation: “ Classification Algorithms for Graphs, Digraphs and Linear Spaces ”		
M. Sc.	Colorado State University	USA (2004)	Linear Algebra in Economy
	Thesis: “ The Effect of Increased Energy Taxes in a General Equilibrium Model of Production ”		
B. Sc.	Kuwait University	Kuwait (2000)	Mathematics

2.2 Languages / Special Skills

Arabic	Mother tongue
English	Fluent
Advanced Computer Skills	C, C++, Objective-C, Matlab, Mathematica, Magma, Maple, NewGRAPH, TeX, Python, GAP, Microsoft Office (Word, Excel, Power Point, Teams, OneNote, OneDrive, SharePoint, Stream), Web Designing.
Basic Computer Skills	PHP, SQL, Java.
Systems	Apple, Linux, Unix, Windows.

3. **PROFESSIONAL EXPERIENCE**

3.1 **Academic Positions**

Title	Duration	Institution	Country
Professor	2023- present	Kuwait University	Kuwait
Associate Professor	2017- 2023	Kuwait University	Kuwait
Assistant Professor	2007 - 2017	Kuwait University	Kuwait
Scholarship for M. Sc. and Ph. D.	2001 - 2007	Colorado State University	USA
Teacher	2000 - 2001	Middle School	Kuwait

3.2 **Administrative Experience**

a. Administrative Positions at Faculty Level (Faculty of Science, Kuwait University)

Name	Academic Year	Position
Department of Mathematics	2018/2019 – October 2022	Chairman
Department of Mathematics	2018/2019	Acting Chairman
Advising and Counseling Office	2011/2012 - 2013/2014	Head

b. Committees at Departmental Level (Department of Mathematics, Kuwait University)

Name	Academic Year	Role
Mathematics Program Convener	November 2022 - September 2023	Convener
Electronic Learning	2021/2022	Convener
Distant E-Learning	2020/2021 - 2021/2022	Convener
Appointment	2018/2019 - October 2022	Convener
	October 2022 - September 2023	Member

Promotion	2018/2019 – September 2023	Member
Scholarships	2018/2019 - October 2022	Convener
	2013/2014 - 2015/2016 and October 2022	Member
Consultative	2018/2019 - October 2022	Convener
	November 2022 - present	Member
Transitioning to New Campus	2019/2020 - 2021/2022	Convener
Schedule of Classes	2017/2018 and November 2022 - September 2023	Member
Employees Affairs	2012/2013 - 2017/2018	Member
	2010/2011 - 2011/2012	Convener
Strategic Planning	2011/2012 - 2016/2017	Convener
Student Affairs	2010/2011	Member
Teaching Assistants	2008/2009	Convener

c. Committees at Faculty Level (Faculty of Science, Kuwait University)

Name	Academic Year	Role
Electronic Content Update Committee	November 2022 - September 2023	Member
College of Science Council	2018/2019 - October 2022	Member
College Laboratories Management Committee	2020/2021 - October 2022	Member
Graduate Program Committee	2019/2020 - October 2022	Member
Distant Learning System Management Committee	2019/2020 - October 2022	Member
Correcting Errors in Grade Submission Committee	2019/2020	Member
Transitioning to New Campus Committee	2018/2019 - 2021/2022	Member
Scholarship Committee	2018/2019 - October 2022	Member

The Project of Sabah Al-Salem University City	2013/2014 - 2016/2017	Member
Jamming Communications in Examination Halls Committee	2012/2013	Member
Strategic Planning Committee	2011/2012 - 2016/2017	Member
Selective Admission to College of Science Committee	2011/2012	Member
Consultation and Training Committee	2008/2009 and 2010/2011	Member

d. Committees at University Level (Kuwait University)

Name	Academic Year	Role
Workshops for Mathematics Aptitude Test	2021/2022	Organizer
Mathematics Olympiad in the Arab Bureau of Education for the Gulf States	2010/2011 - 2012/2013	Convener

e. Ad-hoc Committees - Department Level (Kuwait University)

Name	Academic Year	Role
Comprehensive Examination Committee - Graduate Program of the department	Spring 2021/2022	Coordinator
Entrance Examination Committee - Graduate Program of the department	Fall 2022/2023	Convener

f. Other Community Services

- Organized Workshops, 2020: Several workshops were organized to the Faculty Members of Mathematics Department related to Microsoft Applications: Teams, OneNote, OneDrive, Forms and Stream.

- Organized Workshops, 2020: Several workshops were organized to the Teaching Assistant Members of Mathematics Department related to Microsoft Applications: Teams, OneNote, OneDrive, Forms and Stream.
- Recorded Video Tutorials, 2020: Several tutorials were recorded and distributed to Kuwait University Students related to Teams, OneNote, and OneDrive in details.
- Started *Ice Cream Competition*, 2012-2015: Bi-weekly mathematical problem directed to Students.
- Started *Sudoku Puzzle*, 2010-2015: Monthly Sudoku puzzle (9 x 9 and 16 x 16) directed to Students.

g. Committees outside Kuwait University

Name	Academic Year	Role
Evaluation of the general Framework of the National Curriculum in Kuwait	2013/2014	Member

4. TEACHING AND STUDENT ADVISING

4.1 Courses Taught

- Undergraduate:

No.	Course Number	Course Name
1	0410 - 091 (<u>Supervision</u>)	Pre-Calculus
2	0410 - 101	Calculus I
3	0410 - 102	Calculus II
4	0410 - 111	Introductory Linear Algebra
5	0410 - 115 (<u>Supervision</u>)	Finite Mathematic
6	0410 - 226	Euclidean Geometry
7	0410 - 250	Foundation of Mathematics
8	0410 - 261	Introduction to Abstract Algebra I
9	0410 - 262	Introduction to Abstract Algebra II
10	0410 - 363	Advanced Linear Algebra
11	0410 - 403	Advanced Linear Algebra
12	0410 - 491	Topics in Applied Mathematics (Spectral Graph Theory)

- Graduate:

No.	Course Number	Course Name
1	0410 - 501	Algebra
2	0410 - 537	Combinatorics

4.2 Thesis Supervised

- Ph. D.: None.
- Master:
 - **Aisha Salim** (2022 - Completed). **Area**: Spectral Graph Theory.
Thesis Title: On chain graphs with k main eigenvalues.
 Master's Thesis - Department of Mathematics, College of Science, Kuwait University, Kuwait.
 (Co-Supervisor: Dr. Milica Andelić - Department of Mathematics, College of Science, Kuwait University, Kuwait).
(Supervisor).
 - **Osama Alhalabi** (2021 - Ongoing). **Area**: Linear Algebra and its applications. Master's Thesis - Department of Mathematics, College of Science, Kuwait University, Kuwait.
 (Supervisor: Dr. Milica Andelić - Department of Mathematics, College of Science, Kuwait University, Kuwait).
(Co-Supervisor).
 - **Anwar Altheferi** (2021 - Ongoing). **Area**: Non associative algebra. Master's Thesis - Department of Mathematics, College of Science, Kuwait University, Kuwait.
 (Supervisor: Dr. Latif Hanna - Department of Mathematics, College of Science, Kuwait University, Kuwait).
(Co-Supervisor).
 - **Haneen Zaidan** (2022 - Ongoing). **Area**: Linear Algebra and Its Applications. Master's Thesis - Department of Mathematics, College of Science, Kuwait University, Kuwait.

(Supervisor: Dr. Milica Andelić - Department of Mathematics, College of Science, Kuwait University, Kuwait).

(Co-Supervisor).

4.3 Courses Amendment/New:

- Undergraduate: Initiate the amendment process for all undergraduate syllabi. Most Faculty Members of the department contributed to that process.
- Undergraduate: Initiate the accreditation process for Mathematics Program of the department. Accreditation committee members and all involved coordinators of all courses were part of this process.
- Amendment/New of Undergraduate and Graduate Courses

No.	Course Number	Course Name
1	0410 - 250 (Amendment)	Foundation of Mathematics (with others)
2	0410 - 261 (Amendment)	Introduction to Abstract Algebra I (with others)
3	0410 - 262 (Amendment)	Introduction to Abstract Algebra II (with others)
4	0410 - 345 (Amendment)	Rings Theory (with others)
5	0410 - 346 (Amendment)	Group Theory (with others)
6	0410 - 363 (Amendment)	Advanced Linear Algebra (with others)
7	0410 - 403 (Amendment)	Advanced Linear Algebra (with others)
8	0410 - 464 (New)	Spectral Graph Theory (with others)
9	0410 - 465 (New)	Matrix Analysis (with others)
10	0410 - 499 (New)	Project
11	0410 - 501 (Amendment)	Algebra (with others)
12	0410 - 530 (Amendment)	Foundations of Geometry (with others)
13	0410 - 537 (Amendment)	Combinatorics

4.4 Courses Taught in the Last Five Academic Years

Year	Semester	Course No.	Course Name	Number of Students	Remark
2022/2023	Fall	0410-537/01A	Combinatorics (Graduate)	3	Chairman
2021/2022	Fall	0410-261/01A	Abstract Algebra I	38	Chairman
	Spring	0410-403/01A	Advanced Linear Algebra	10	
2020/2021	Fall	0410-491/01A	Topics in Applied Mathematics (Spectral Graph Theory)	6	Chairman
	Spring	0410-501/01A	Algebra (Graduate)	5	
	Summer	0410-250/01A	Foundation of Mathematics	45	
2019/2020	Fall	0410-226/01A	Euclidean Geometry	52	Chairman
	Spring	0410-261/01A	Abstract Algebra I	45	
	Summer	0410-250/01A	Foundation of Mathematics	46	
2018/2019	Fall	0410-250/01A	Foundation of Mathematics	51	Acting Chairman
		0410-262/01A	Abstract Algebra II	18	
	Spring	0410-363/01A	Advanced Linear Algebra	35	Chairman
	Summer	0410-250/01A	Foundation of Mathematics	44	
		0410-363/51T	Advanced Linear Algebra	1 Volunteered	
2017/2018	Fall	0410-250/01A	Foundation of Mathematics	50	
		0410-363/01A	Advanced Linear Algebra	37	
	Spring	0410-226/01A	Euclidean Geometry	58	
		0410-261/01A	Abstract Algebra I	40	

5. RESEARCH EXPERIENCE

5.1 Research Areas Group

- Convener of Pure Mathematics Group (Department of Mathematics, Kuwait University), September 2020 – September 2023.

5.2 Area of Interest

- Spectral Graph Theory.
- Algebra (Abstract and Linear).
- Combinatorial Objects.
- Combinatorics.

5.3 Conferences and Workshops

▪ Conferences Organized:

- Member of Scientific Committee for “**IV International Conference on Mathematics and its Applications in Science and Engineering (ICMASE 2023)**”, 12-14 July 2023, Madrid, Spain.
- Co-Chair for “**8th International IFS and Contemporary Mathematics Conference (IFSCOM 2022)**”, 16 - 19 Jun. 2022, Mersin, TURKEY.
- Reviewer for “**8th International IFS and Contemporary Mathematics Conference (IFSCOM 2022)**”, 16 - 19 Jun. 2022, Mersin, TURKEY.
- Member of Scientific Committee for “**II. International Conference on Mathematics and its Applications in Science and Engineering (ICMASE 2022)**”, 4 - 7 Jul. 2022, Bucharest, Romania.
- Reviewer for “**II. International Conference on Mathematics and its Applications in Science and Engineering (ICMASE 2022)**”, 4 - 7 Jul. 2022, Bucharest, Romania.
- Chairing a Session for “**10th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA 2021)**”, 25 - 27 Aug. 2021, Sakarya, Turkey.

- Member of Scientific Committee for “**II. International Conference on Mathematics and its Applications in Science and Engineering (ICMASE 2021)**”, 1 - 2 Jul. 2021, Salamanca, Spain.
- Master of Ceremony for “**Conference on Mathematics and its Applications - 2014 (CMA14)**”, 14 – 17 Nov. 2014, Department of Mathematics, Kuwait University, Kuwait.
- Conferences Attended with Oral Presentation:
 1. October 27 - 31, 2022, **Main and non-main eigenvalues of connected chain graphs**, *The 5th Mediterranean International Conference of Pure & Applied Mathematics and Related Areas (MICOPAM 2022)*, Antalya, Turkey.
 2. August 25 - 27, 2021, **Matroids and n_3 -configurations**, *10th International Eurasian Conference on Mathematical Sciences and Applications (IECMSA 2021)*, Sakarya, Turkey.
 3. July 25 - 29, 2021, **On triangular matroids induced by n_3 -configurations**, *II. International Conference on Mathematics and its Applications in Science and Engineering (ICMASE2021)*, Salamanca, Spain.
 4. June 21 - 22, 2021, **Upper bounds on the energy of graphs in terms of matching number**, *Emerging Trends in Pure and Applied Mathematics (ICETPAM 2021)*, University of Bahrain, Bahrain.
 5. May 25 - 29, 2021, **The Moore-Penrose inverse of symmetric matrices with nontrivial equitable partitions**, *7th International IFS and Contemporary Mathematics Conference (IFSCOM 2021)*, Mersin, TURKEY.
 6. August 5 - 6, 2010, **Classification of Triangle-Free 22_3 Configurations**, *Workshop Coding Theory and Geometry*, Colorado State University, Fort Collins, Colorado, USA.
 7. March 2007, **Classification algorithms for incidence structures**, *Algebra Seminar*, Colorado State University, USA.
 8. April 7, 2006, **Algorithms for isomorphism checking and generation of simple graphs**, *Algebraic Combinatorics Seminar*, Colorado State University, USA.
- Poster Presentations:
 1. May 11 - 14, 2022, **On main eigenvalues of chain graphs**, *5th International Conference on Mathematical Advances and Applications (ICOMAA-2022)*, Istanbul, Turkey.

2. May 26 - 29, 2021, **Upper bounds on the energy of graphs in terms of matching number**, *4th International Conference on Mathematical Advances and Applications (ICOMAA-2021)*, Istanbul, Turkey.
 3. May 26 - 29, 2021, **On triangular matroids induced by n_3 -configurations**, *4th International Conference on Mathematical Advances and Applications (ICOMAA-2021)*, Istanbul, Turkey.
 4. March 21, 2021, **Upper bounds on the energy of graphs in terms of matching number**, *Poster Day 2020/2021*, Research Sector - Kuwait University.
 5. July 11 - 21, 2016, **On construction of certain Chevalley groups of $E_6(q)$** , *The conference of the 5th CIMPA GeToPhyMa 2016*, Rabat, Morocco.
 6. June 5 - 9, 2013. **On Baer triple $(V, G, R)_{F_2}$** , “*The 4th Novi Sad Algebraic Conference & Semigroups and Applications 2013*”, Novi Sad, Serbia.
- Participation in Scientific Meetings without Oral Presentations:
 1. December 15 - 17, 2021, **International Conference on Linear Algebra and its Applications (ICLAA 2021)**.
 2. July 23 - 27, 2021, **26th International Conference on Applications of Computer Algebra (ACA 2021)**.
 3. April 28 - 29, 2021, **ILAS 2340 - Spectral Graph Theory (SGT) Online 2021**, *Research Group SGT-Rio and SGT-RS*, Brazil.
 4. July 17 - 27, 2015, **Combinatorics and Computer Algebra (CoCoA) 2015**, *Colorado State University*, Fort Collins, Colorado, USA.
 5. July 23 - 27, 2012, **The 6th International Conference on Automatic Differentiation (AD2012)**, *Colorado State University*, Fort Collins, Colorado, USA.
 6. April 11 - 18, 2010, **Algebraic Combinatorics and its Applications (ALCOMA 10)**, *Thurnay near Bayreuth*, Germany.

6. SABBATICAL LEAVES

- September 2023- September 2024, *Colorado State University* (Colorado – USA) and *Kuwait University* (Kuwait).
- September 2009 - September 2010, *Colorado State University* (Colorado – USA) and *Kuwait University* (Kuwait).

7. HONORS AND AWARDS

1. Winner of Jaber Al-Ahmad Prize for Young Researchers for the Prize Field “**Natural Sciences and Mathematics** including Physics, Chemistry, Geology, Mathematics, Statistics, Computer Sciences and other majors”, 2021.
2. Kuwait University Research Reward for “Final Report Reward from *funded* project No. SM02/19”: Saieed Akbari, **Abdullah Alazemi** and Milica Andelić, “Upper bounds on the energy of graphs in terms of matching number”, *Applicable Analysis and Discrete Mathematics*, **15**: 444 - 459, 2021.
3. Kuwait University Research Reward for “publishing **Q1** scientific paper from *funded* project No. SM01/19”: **Abdullah Alazemi**, Milica Andelić, Carlos da Fonseca, Vyacheslav Futorny, and Vladimir V. Sergeichuk, “Three representation types for systems of forms and linear maps”, *Mathematics*, **9** (5), 455, 1 - 12, 2021.
4. Kuwait University Research Reward for “publishing **Q1** scientific paper from *unfunded* project”: Ali Kanso, Mohammad Ghebleh, and **Abdullah Alazemi**, “Efficient Image Encryption Scheme Based on 4-Dimensional Chaotic Maps”, *Informatica*, **31** (4): 793 – 820, 2020.
5. Kuwait University Research Reward for “publishing **Q1** scientific paper from *unfunded* project”: Ali Kanso, Mohammad Ghebleh, and **Abdullah Alazemi**, “A Lossless Linear Algebraic Secret Image Sharing Scheme”, *Informatica*, **31** (3): 499 - 522, 2020.
6. Kuwait University Research Reward for “publishing **Q1** scientific paper from *funded* project No. SM03/18”: **Abdullah Alazemi**, Milica Andelić, Francesco Belardo, Maurizio Brunetti, and Carlos da Fonseca, “Line and subdivision graphs determined by T_4 -gain graphs”, *Mathematics*, **7** (10), 926, 1 - 12, 2019.
7. Kuwait University Research Reward for “publishing **Q1** scientific paper from *unfunded* project”: **Abdullah Alazemi**, Milica Andelić, and Slobodan Simić, “On eigenvalue inequalities of a matrix whose graph is bipartite”, *Journal of Inequalities and Applications*, **50**, 1 - 12, 2019.
8. Kuwait University Research Reward for “publishing **Q1** scientific paper from *funded* project No. SM03/16”: **Abdullah Alazemi**, Milica Andelić, Tamara Koledin, and Zoran Stanić, “Distance-regular graphs with small number of distinct distance eigenvalues”, *Linear Algebra and its Applications*, **531**: 83 - 97, 2017.
9. Kuwait University Research Reward for “publishing **Q1** scientific paper from *funded* project No. SM03/15”: **Abdullah Alazemi**, Milica Andelić, and Slobodan K. Simić, “Eigenvalue location for chain graphs”, *Linear Algebra and its Applications*, **505**: 194 - 210, 2016.

8. LIST OF PUBLICATIONS

8.1 Research Papers (Post Ph.D.)

1. **Abdullah Alazemi**, Milica Anđelić, Jovana Milenković and Jovana Nikolov Radenković, “Combinatorial versus algebraic formulae for the Moore–Penrose inverse of a Laplacian matrix of a threshold graph”, *Journal of Computational and Applied Mathematics*, **442**, 115714, 2024.
<https://doi.org/10.1016/j.cam.2023.115714>.
2. **Abdullah Alazemi**, Osama Alhalabi and Milica Anđelić, “Moore-Penrose inverse of the signless Laplacians of bipartite graphs”, *Bulletin of the Iranian Mathematical Society*, **49**, 51 (2023).
<https://doi.org/10.1007/s41980-023-00792-6>.
3. **Abdullah Alazemi** and Emrah Kilic, “Determinant evaluation of banded Toeplitz matrices via bivariate polynomial families”, *Applicable Analysis and Discrete Mathematics*, accepted.
4. **Abdullah Alazemi**, Milica Anđelić, and Darko Dimitrov, “On the inverse Collatz-Sinogowitz irregularity problem”, *Open Mathematics* 21, Article number 20220572, 2023.
5. **Abdullah Alazemi**, Milica Anđelić, Tamara Koledin, and Zoran Stanić, “Chain graphs with simple Laplacian eigenvalues and their Laplacian dynamics”, *Computational and Applied Mathematics* 42, Article No. 6, 1 - 16, 2023.
<https://doi.org/10.1007/s40314-022-02141-5>.
6. Latif Hanna, **Abdullah Alazemi**, and Anwar Al-Dhafeeri, “On Faithful Matrix Representations of q-Deformed Models in Quantum Optics”, *International Journal of Mathematics and Mathematical Sciences*, Volume 2022, Article ID 6737287, 8 pages.
<https://doi.org/10.1155/2022/6737287>.
7. **Abdullah Alazemi**, Milica Anđelić, Kinkar C. Das and Carlos M. da Fonseca, “Chain graph sequences and Laplacian spectra of chain graphs”, *Linear and Multilinear Algebra*, 1 - 17, 2022. <https://doi.org/10.1080/03081087.2022.2036672>.
8. Mohammad Ghebleh, Ali Kanso and **Abdullah Alazemi**, “A linear algebraic threshold essential secret image sharing scheme”, *Mathematics* 10 (5), 742, 1 - 16, 2022.
<https://doi.org/10.3390/math10050742>.
9. Saieed Akbari, **Abdullah Alazemi**, Milica Anđelić and Mohammad A. Hosseinzadeh, “On the energy of line graphs”, *Linear Algebra and Its Applications* 636, 143 - 153, 2022.
<https://doi.org/10.1016/j.laa.2021.11.022>.

10. **Abdullah Alazemi**, Carlos da Fonseca and Emrah Kiliç, “The spectrum of a new class of Sylvester-Kac matrices”, *Filomat* 35 (12), 4017 - 4031, 2021.
<https://doi.org/10.2298/FIL2112017A>.
11. **Abdullah Alazemi**, Milica Anđelić and Aisha Salim, “On main eigenvalues of chain graphs”, *Computational and Applied Mathematics* 40, Article No. 268, 2 - 16, 2021.
<https://doi.org/10.1007/s40314-021-01639-8>.
12. Saieed Akbari, **Abdullah Alazemi** and Milica Anđelić, “Upper bounds on the energy of graphs in terms of matching number”, *Applicable Analysis and Discrete Mathematics* 15 (2), 444 - 459, 2021.
<https://doi.org/10.2298/AADM201227016A>.
13. **Abdullah Alazemi**, Milica Anđelić and Dragana Cvetković-Ilić, “The Moore-Penrose inverse of symmetric matrices with nontrivial equitable partitions”, *Applied Mathematics and Computation* 400, 126036, 1 - 11, 2021.
<https://doi.org/10.1016/j.amc.2021.126036>.
14. **Abdullah Alazemi**, Milica Anđelić, Carlos da Fonseca, Vyacheslav Futorny and Vladimir Sergeichuk, "Three representation types for systems of forms and linear maps", *Mathematics* 9 (5), 455, 1 - 12, 2021.
<https://doi.org/10.3390/math9050455>.
15. Kinkar Chandra Das, **Abdullah Alazemi** and Milica Anđelić, “On energy and Laplacian energy of chain graphs”, *Discrete Applied Mathematics* 284, 391 - 400, 2020.
<https://doi.org/10.1016/j.dam.2020.03.057>.
16. Ali Kanso, Mohammad Ghebleh and **Abdullah Alazemi**, “Efficient image encryption scheme based on 4-dimensional chaotic maps”, *Informatica* 31 (4), 793-820, 2020.
<https://doi.org/10.15388/20-INFOR426>.
17. Ali Kanso, Mohammad Ghebleh and **Abdullah Alazemi**, “A Lossless linear algebraic secret image sharing scheme”, *Informatica* 31 (3), 499-522, 2020.
<https://doi.org/10.15388/20-INFOR420>.
18. **Abdullah Alazemi**, and Michael Raney, “On triangular matroids induced by n_3 -configurations”, *Open Mathematics* 18, 1565-1579, 2020.
<https://doi.org/10.1515/math-2020-0101>.
19. **Abdullah Alazemi**, Milica Anđelić, Tamara Koledin and Zoran Stanić, “Eigenvalue-free intervals of distance matrices of threshold and chain graphs”, *Linear and Multilinear Algebra* 69 (16), 2959 - 2975, 2019.
<https://doi.org/10.1080/03081087.2019.1701624>.

20. **Abdullah Alazemi**, Milica Anđelić and Slobodan Simić, “On eigenvalue inequalities of a matrix whose graph is bipartite”, *Journal of Inequalities and Applications* 50, 1 - 12, 2019.
<https://doi.org/10.1186/s13660-019-2001-2>.
21. **Abdullah Alazemi**, Milica Anđelić, Francesco Belardo, Maurizio Brunetti and Carlos M. da Fonseca, “Line and subdivision graphs determined by T_4 -gain graphs”, *Mathematics* 7(10), 926, 1 - 12, 2019.
<https://doi.org/10.3390/math7100926>.
22. **Abdullah Alazemi** and Mashhour Bani-Ata, “On the existence of Baer triples $(V, G, K)_{F_2}$ of type 2”, *Kuwait Journal of Science* 46 (3), 18 - 30, 2019.
23. **Abdullah Alazemi**, Milica Anđelić, Carlos da Fonseca and Vladimir Sergeichuk, "Lipschitz property for systems of linear mappings and bilinear forms", *Linear Algebra and its Applications* 573, 26 - 36, 2019.
<https://doi.org/10.1016/j.laa.2019.03.016>.
24. **Abdullah Alazemi**, Anton Betten and Sajeeb Chowdhury, “Rainbow clique search algorithm for BLT-sets”, In *ICMS 2018 - Proceedings of the International Congress on Mathematical Software*; James H. Davenport, Manuel Kauers, George Labahn, Josef Urban (ed.), pages 71–79. Springer, 2018.
https://doi.org/10.1007/978-3-319-96418-8_9.
25. **Abdullah Alazemi**, Milica Anđelić, Tamara Koledin and Zoran Stanić, “Distance-regular graphs with small number of distinct distance eigenvalues”, *Linear Algebra and its Applications* 531, 83-97, 2017.
<https://doi.org/10.1016/j.laa.2017.05.033>
26. **Abdullah Alazemi**, Milica Anđelić and Slobodan Simić, “On the spectral invariants of symmetric matrices with applications in the spectral graph theory”, *Filomat* 31, 2925-2932, 2017.
27. **Abdullah Alazemi** and M. Bani-Ata, “On construction of the maximal parabolic subgroup P_1 of $E_6(K)$ for fields K of characteristic two”, *Journal of Lie Theory* 27 (4), 1107-1118, 2017.
28. **Abdullah Alazemi**, Milica Anđelić and Slobodan Simić, “Eigenvalue location for chain graphs”, *Linear Algebra and its Applications*, 505, 194-210, 2016.
<https://doi.org/10.1016/j.laa.2016.04.030>.
29. **Abdullah Alazemi** and Mashhour Bani-Ata, “On certain properties of Baer triples $(V, G, K)_{F_2}$ of type n ”, *Far East Journal of Mathematical Sciences (FJMS)*, 96 (6), 725-734, 2015.
30. **Abdullah Alazemi** and Dieter Betten, “The configurations 12_3 , revisited”, *Journal of Geometry*, 105 (2), 391-417, 2014.

<https://doi.org/10.1007/s00022-014-0228-0>

31. **Abdullah Alazemi**, Anton Betten and Dieter Betten, “Unital designs with blocking set”, *Discrete Applied Mathematics*, 163 (2): 102-112, 2014.
<https://doi.org/10.1016/j.dam.2013.02.023>.
32. Fares AlAzemi, **Abdullah Alazemi** and Lyubomir Boyadjiev, “Mellin transform method for solving Black-Scholes equation”, *International Journal of Pure and Applied Mathematics*, 97 (3), 287-301, 2014.
<https://doi.org/10.12732/ijpam.v97i3.3>.
33. **Abdullah Alazemi**, Fares AlAzemi, and Amin Boumenir, “The approximation of eigencurves by sampling”, *Sampling Theory in Signal and Image Processing*, 12 (2-3), 127-137, 2013.
<http://dx.doi.org/10.1007/bf03549564>.
34. **Abdullah Alazemi**, “Isomorph rejection: theory and an application”, *Kuwait Journal of Science and Engineering*, 39 (2A): 1-14, 2012.
35. **Abdullah Alazemi**, “Classification of regular digraphs, normally regular digraphs, and strongly regular digraphs”, *International Journal of Pure and Applied Mathematics* 78 (3): 379-393, 2012.
36. **Abdullah Alazemi** and Anton Betten, “Classification of triangle free 22_3 configurations”, *International Journal of Combinatorics*, Volume 2010, Article ID 767361, 17 pages, 2010.
<http://dx.doi.org/10.1155/2010/767361>.
37. **Abdullah Alazemi**, “Generating incidence structures with a given girth”, *International Journal of Applied Mathematics*, 23 (4), 703 -711, 2010.

8.2 Conference Proceedings Publications

1. **Abdullah Alazemi**, Anton Betten and Sajeeb Chowdhury, “Rainbow clique search algorithm for BLT-sets”, In *ICMS 2018 - Proceedings of the International Congress on Mathematical Software*; James H. Davenport, Manuel Kauers, George Labahn, Josef Urban (ed.), pages 71–79. Springer, 2018.
2. **Abdullah Alazemi**, Milica Anđelić and Slobodan Simić, “On the spectral invariants of symmetric matrices with applications in the spectral graph theory”, *Filomat* 31 (10), 2925-2932, 2017.

8.3 Papers Under Review / Submitted

1. **Abdullah Alazemi**, Milica Anđelić and Sudipta Mallik, “Signed graphs and inverses of their incidence matrices”, *Linear Algebra and Its Applications*.

8.4 Books and Book Chapters

1. **Abdullah Alazemi** (Ph. D. Dissertation), “Classification algorithms for graphs, digraphs, and linear spaces”, LAP LAMBERT Academic Publishing, 2009.
2. **Abdullah Alazemi**, Milica Anđelić, and Kyriakos Papadopoulos, “On the geometric realization of generalized Cartan matrices of rank 3”, *a chapter in “Analysis, Geometry, Nonlinear Optimization and Applications, World Scientific”*.
3. **Abdullah Alazemi** and Milica Anđelić, “Forbidden eigenvalue intervals of chain graphs”, *submitted, Springer – chapter in a book*.

9. SCIENTIFIC CONTRIBUTIONS

9.1 Mathematical Software

- A collaborator of **ORBITER** – Classification of Combinatorial Objects, by Anton Betten, Kuwait University, Kuwait and Colorado State University, Colorado, USA:
<https://github.com/abetten/orbiter>.

9.2 Membership in Professional Societies

- Member of Kuwait University Faculty Association.
- Member of American Mathematical Society (AMS).
- Member of International Linear Algebra Society (ILAS).

9.3 Editorial Boards

- Area Editor for Journal of Universal Mathematics, 2021 - present.
- Member of Editorial Board of Facta Universitatis, Series: Mathematics and Informatics, 2022 - present.

9.4 Refereeing Projects

- Kuwait Journal of Science.

9.5 Refereeing Articles

- Discussiones Mathematicae Graph Theory.
- Kuwait Journal of Science.
- Discrete Applied Mathematics.

- Applied Mathematics and Computation.
- AIMS Mathematics.
- Mathematics and Statistics (Invited).
- Filomat.
- Facta Universitatis: Series Mathematics and Informatics.
- Journal of Applied Mathematics and Computing.

9.6 Review of Published Articles

- Mathematical Reviews by American Mathematical Society (AMS).
- Zentralblatt MATH (zbMATH Open).

9.7 Proposed Academic Visits (One week) to the Department of Mathematics at Kuwait University - Kuwait

- Dr. Darko Dimitrov (2022), University of Applied Sciences, Berlin, Germany.
- Prof. Emrah Kilic (2019), TOBB University of Economics and Technology, Ankara, Turkey.
- Prof. Kinkar C. Das (2018), Department of Mathematics, Sungkyunkwan University, Suwon, South Korea.
- Prof. Volodymyr Sergeichuk (2018), Institute of Mathematics of the National Academy of Sciences of Ukraine, Ukraine.
- Prof. Slobodan Simić (2015), Mathematical Institute of Serbian Academy of Sciences and Arts, Belgrade, Serbia.

9.8 Collaborators

- Prof. Saieed Akbari, Sharif University, **Iran**.
- Dr. Fares Alazemi, Kuwait University, **Kuwait**.
- Anwar Al-Dhafeeri, Kuwait University, **Kuwait**.
- Osama Al-Halabi, Kuwait University, **Kuwait**.
- Dr. Milica Anđelić, Kuwait University, **Kuwait**.
- Prof. Mashhour Bani Atta, Public Authority for Applied Education and Training, **Kuwait**.
- Dr. Francesco Belardo, University of Naples, **Italy**.
- Dr. Anton Betten, Kuwait University, **Kuwait** and Colorado State University, **USA**.

- Prof. Dieter Betten, University of Kiel, **Germany**.
- Prof. Amin Boumenir, Kuwait University, **Kuwait**.
- Prof. Lyubomir Boyadjiev, Kuwait University, **Kuwait**.
- Dr. Maurizio Brunetti, University of Naples, **Italy**.
- Sajeeb Chowdhury, Colorado State University, **USA**.
- Prof. Dragana Cvetković-Ilić, Kuwait University, **Kuwait** and University of Nis, **Serbia**.
- Dr. Kinkar Chandra Das, Sungkyunkwan University, **South Korea**.
- Dr. Darko Dimitrov, Faculty of Information Studies, Novo mesto, **Slovenia**.
- Prof. Carlos M. Da Fonseca, College of Science and Technology, **Kuwait**, and University of Primorska, **Slovenia**.
- Dr. Mohammad Ghebleh, Kuwait University, **Kuwait**.
- Dr. Latif Hanna, Kuwait University, **Kuwait**.
- Dr. Mohammad Hosseinzadeh, Amol University of Special Modern Technologies, **Iran**.
- Dr. Ali Kanso, Kuwait University, **Kuwait**.
- Prof. Emrah Kilic, TOBB University of Economics and Technology, **Turkey**.
- Dr. Tim Hopkins, University of Kent, **UK**.
- Dr. Tamara Koledin, University of Belgrade, **Serbia**.
- Sudipta Mallik, Northern Arizona University, **USA**.
- Dr. Jovana Milenković, University of Niš, **Serbia**.
- Dr. Kyriakos Papadopoulos, Kuwait University, **Kuwait**.
- Dr. Jovana Nikolov Radenković, University of Niš, **Serbia**.
- Dr. Michael Raney, Georgetown University, **USA**.
- Aisha Salim, Kuwait University, **Kuwait**.
- Prof. Vladimir V. Sergeichuk, Institute of Mathematics, **Ukraine**
- Prof. Slobodan K. Simić, Serbian Academy of Sciences and Arts, **Serbia**.
- Prof. Zoran Stanić, University of Belgrade, **Serbia**.