

ALI JABALLAH

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Personal Details

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Educational Qualifications

PhD in Mathematics	1987
The University of Münster, West Germany	
<i>Speciality:</i> Algebra and Algebraic Geometry	
<i>Thesis:</i> On monomial ideals	
MSc in Mathematics	1981
The University of Tunis, Tunisia	
<i>Thesis:</i> Transfer properties for commutative Noetherian rings.	
BSc in Mathematics	1979
The University of Tunis, Tunisia	
Diploma in Mathematics and Physics	1977
The University of Tunis, Tunisia	

Languages Spoken

Arabic is my first language.
Very fluent in English, French and German.

Computer Skills

- A good experience with LATEX and Scientific Workplace.
- A good experience with Derive and Maple.
- ICDL

Work Experience

Position Held	Institution
<i>Head of Department of Mathematics</i> Sep 2014-Aug 2016	Department of Mathematics, College of Sciences, The University of Sharjah, UAE
<i>Professor</i> Jan 2013-	Department of Mathematics, College of Sciences, The University of Sharjah, UAE
<i>Associate Professor</i> Oct 2001- Jan2013	Department of Mathematics (Basic Sciences), College of Sciences, The University of Sharjah, UAE
<i>Assistant Professor</i> 1988-2001	<ul style="list-style-type: none"> - The Department of Mathematics, College of Sciences, Qatar University, 1999-2001. - The Department of Mathematics, School of Computing and Mathematical Sciences, The University of Waikato, Hamilton, New Zealand, 1998 and 1999. - The Department of Mathematics, College of Sciences, Sana'a University, Sana'a, 1993-1997. - The Department of Mathematics, College of Sciences, KingSaudUniversity, Riyadh, Saudi Arabia, 1988-1993.

Teaching Activities

Teaching is my main duty. Here is my main experience and contribution in teaching:

- Taught courses for students of different backgrounds at various colleges of the universities I worked for, such as *Sciences, Education, Engineering, Agriculture, Business Administration, Medicine, Pharmacy and Health Sciences Colleges.*

For the graduate level: Commutative Algebra.

For the undergraduate level:

- Remedial Mathematics, Mathematics for Business, Statistics for Business, Statistics for Sociology
- Pre-calculus, Calculus, Vector Calculus
- Linear Algebra I, Differential Equations
- Abstract Algebra, Linear Algebra II
- Real Analysis, Complex Analysis, Functional Analysis, Topology, Measure Theory, Differential Geometry
- Discrete Mathematics, Combinatorics, Operations Research

I also have the ability for teaching most of other mathematical courses for the undergraduate level.

- Contributed in the development and reshaping of several new courses.
- Supervised several student research projects.
- Supervised the newly started math tutorial for Calculus 2 and Linear Algebra

Community and University Services

Research Editing and Refereeing

- -Working as Editor for the following journals:
 - [Journal of Mathematics](#)
 - [Advances in Fuzzy Mathematics](#)
 - [International Journal of Mathematical Sciences & Applications](#)
- Worked as an editor several years for
 - [The Scientific World Journal](#)
 - [International Scholarly Research Notices](#)
- Referee by several mathematics journals such as Fuzzy Sets and Systems, Information Sciences and Journal of Algebra.
- Refereed several Ph.D. and M.Sc. theses for Sultan Qaboos University (Oman), Karunya University (India), Rhodes University (South Africa), University of Sfax (Tunisia).
- Evaluated promotion files for Jazan University, Saudi Arabia

Edited Journal Issues

- [1] Abuhlail, Jawad (ed.); Jaballah, Ali (ed.); Laradji, Abdallah (ed.); Badawi, Ayman (ed.); Kabbaj, Salah-Eddine (ed.); Wisbauer, Robert (ed.), Special issue: Selected papers based on the presentations at the 1st international conference on mathematics and statistics, AUS-ICMS '10, Sharjah, United Arab Emirates, March 18--21, 2010. (English) Zbl 1283.13001, Arab. J. Math. 1, No. 1, 137 p. (2012).MSC: 13-06 13Axx 13Cxx 00B25
- [2] Abuhlail, Jawad (ed.); Jaballah, Ali (ed.); Laradji, Abdallah (ed.); Badawi, Ayman (ed.); Kabbaj, Salah-Eddine (ed.); Wisbauer, Robert (ed.), Special issue: Selected papers based on the presentations at the 1st international conference on mathematics and statistics, AUS-ICMS '10, Sharjah, United Arab Emirates, March 18--21, 2010. Part 2. (English) Zbl 1319.00016, Arab. J. Sci. Eng. 36, No. 6, 919-1070 (2011).

Administrative Activities

- Was the main responsible for the accreditation file of the B.Sc. of Mathematics by the Ministry of higher education and ABET.
- Served at several committees at the department, college and university level such as the Curriculum, Human Resources, Accreditation committee, Mathematics Department website, and the library committees.
 - The library committee at the mathematics department.
- Webpage coordinator at the department of mathematics at the University of Sharjah.

- Development of several mathematical curriculums at the department of mathematics.
- Development of several new courses with the collaboration of different departments of the University.
- Responsible for the assessment of the qualifications of international students.
- Referee by Think Science Competition, organized by Emirates Foundation.

Research Activities

My principal fields of interest are Commutative Algebra and Fuzzy Sets. In addition I also have developed some secondary interests in Algebraic Geometry, Ordered Sets, and Finite Topologies. Several results from my papers have been included in some recent books, see footnotes to papers [5] and [6]. Furthermore several of my papers have been cited by well known mathematicians in prestigious mathematics research journals. One of my papers was featured three times by The ScienceDirect Top 25 Hottest Articles, see footnotes to paper [12]. It is also recently being featured in **Top 10 Cited** articles published in the last five years. I have contributed and have been invited to numerous conferences. I was also involved in the organization of several mathematics conferences. Furthermore I have had several collaborators in my research. Below are the main touched research subjects:

1. Commutative Algebra

Ring extensions with some finiteness conditions on the set of intermediate rings

(Papers [6], [7], [8], [12], [14], [16], [20], and [22])

Let $R \subset S$ be a ring extension.

We established for the first time several necessary and sufficient conditions under which the set and chains of intermediate rings in some ring extensions is finite. As a consequence we obtain for the first time necessary and sufficient conditions for the set and chains of overrings of Prüfer domains to be finite. We also provided a formula for the length of chains and an algorithm for the number of intermediate rings.

We have also introduced the new notion of *residually algebraic pairs* and established several characterizations for them. We compared these pairs with many other different types of ring extensions and also linked them to some finiteness conditions on the set of intermediate rings. These results enabled us to obtain as a by-product several characterizations of many integral domains such as Prüfer, Valuation and integrally closed domains.

Maximal non-P subrings

(Papers [23], [24] and [25])

Let R be a subring of an integral domain S . For a given ring theoretic property P , R is said to be a maximal non- P subring of S if R does not satisfy P while every subring of S properly containing R satisfies P . Several integral domains have been characterized in the last few decades by properties satisfied by their overrings. On the other hand only few papers investigated domains R that are maximal subrings of their quotient field not satisfying a given property P . Recently there has been an increasing interest in such studies considering the properties valuation subrings, ACCP subrings, ... We investigated in several papers discrete valuation rings, Prüfer domains, and integrally closed domains in the context of "maximal non- P subring" property and determined several conditions for an integral domain to be a maximal non- P subring. We also added several characterizations of maximal non-valuation subrings to the existing ones.

Minimal number of generators of ideals in polynomial rings

(Papers [2], [3] and [4])

Sharp upper bounds for the minimal number of generators of monomial ideals are obtained when the ideals obey some conditions on the heights and the degrees of the generators. Minimal systems of generators of some particular ideals are also given. This subject is strongly connected with the number of hypersurfaces needed to define an algebraic variety.

2. Fuzzy Sets

Representation by fuzzy sets

(Papers [13], [15], [17] and [18])

The concept of representation of a given family of sets by a fuzzy set, in such a way that the level sets of the obtained fuzzy set are precisely the given family of sets, is widely used in the literature for the classification and study of fuzzy algebraic structures on the same underlying set. It also plays an important role in many real life applications. We established several necessary and sufficient conditions for the existence and uniqueness of fuzzy sets representing a given family of subsets. We also investigated, in the case of non-uniqueness, the number of fuzzy sets corresponding to a collection of level sets and a collection of membership values. We also provided some equivalent forms and several constructive remarks, including some directions for future investigations.

Applications of fuzzy sets to ring theory

(Papers [5], [9], [10], [11] and [19])

Minimal generating systems for fuzzy ideals of a ring R are investigated. We showed that every fuzzy ideal of R is finitely generated if and only if R has a composition series. In particular if R has an identity, then R is Artinian if and only if every fuzzy ideal of R is finitely generated. We also gave sharp upper bounds for the number of generators of some fuzzy ideals. Fuzzy primary decompositions for fuzzy ideals have been also investigated. In particular we gave sharp upper bounds for the number of components in such decompositions.

3. Algebraic Geometry

Complete intersection in algebraic geometry

(Paper [1])

We obtain several results on the minimal number of equations required to define some algebraic varieties defined by monomials. We establish that every algebraic variety defined by monomials and of positive dimension is defined with no more than $n-1$ hypersurfaces. In particular, we showed that an algebraic curve defined by a monomial ideal in the n -affine space is the intersection of $n-1$ hypersurfaces.

4. Ordered sets

Automorphism related properties and chain decompositions

(Paper [21])

Automorphisms of ordered sets are an important tool to investigate and classify orders. We used chain decompositions into convex components to obtain

characterizations for several chain properties related to the set of automorphisms. In particular, we obtained new results related to the unsolved problem of characterization of automorphic ordered sets (ordered sets who admit a fixed point free automorphism). We also investigate the problem of restrictions and extensions of automorphisms between chains and subchains. Several characterizations of the subchains for which extensions and restrictions are possible are established.

5. Combinatorics and finite fuzzy topologies

(Paper [27])

Necessary and sufficient conditions for the finiteness of the number of open sets of a finite topological space are established. Then the number of topologies with 2,3,4,5 open sets is obtained. Also the number and the cardinality of non-discrete topologies of maximal cardinality is obtained.

6. Orthogonal Symmetry and Reflections in Banach Spaces, Orthogonal Symmetries of the Unit Ball of $C(I)$

(Paper [28])

Let X be a Banach space. We introduce a concept of orthogonalsymmetry and refection in X . We then establish its relation with the concept of best approximation and investigate its implication on the shape of the unit ball of the Banach space X by considering sections over subspaces. The results are then applied to the space $C(I)$ of continuous functions on a compact set I . We obtain some nontrivial symmetries of the unit ball of $C(I)$. We also show that under natural symmetry conditions, every odd function is orthogonal to every even function in X . We conclude with some suggestions for further investigations.

Papers and Preprints

- [1] Ali Jaballah, *Monomiale Ideale und mengentheoretische vollständige Durchschnitte*, Arch. Math. **51** (1988), 308-312, Springer.
- [2] Ali Jaballah, *Minimale Erzeugendensysteme und minimale Primteiler von monomialen Radikalidealen*, Math. Ann. **280** (1988), 683-686, Springer.
- [3] Ali Jaballah, *Generating Radical Monomial Ideals*, Arch. Math. **55** (1990), 533-536, Springer..
- [4] Ali Jaballah, *On the number of generators of monomial ideals*, Arch. Math. **58** (1992), 231-233, Springer.
- [5] ¹ Ali Jaballah and J. N. Mordeson, *Minimal generating systems for fuzzy ideals*, Soochow Jour. Math. , Vol. **21** (1995), no 2, 183-192.
- [6] ² A. Ayache and Ali Jaballah, *Residually algebraic pairs of rings*, Math. Z. **225** (1997), 49-65; MR 98i: 13041, Springer.

¹ The results of paper [5] are also included in the book: **Fuzzy Commutative Algebra** by Mordeson J. N. and Malik M. S., Scientific Publishing Co., Inc., River Edge, NJ , 1998. (pages 121-129)

² Most results of paper [6] are also included in the book: **Prüfer Domains** by Fontana M, Huckaba J A, and Papick I J, Marcel Dekker Inc, 1997. (page 246 and pages 214-227)

- [7] Ali Jaballah, *A lower bound for the number of intermediary rings*, *Comm. Alg.*, **27** (1999), no 3, 1307-1311.
- [8] Ali Jaballah, *Finiteness of the set of intermediary rings in normal pairs*, *Saitama Math. J.*, **17** (1999), 59-61.
- [9] Ali Jaballah, *Effective generators for fuzzy ideals*, *Soochow Jour. Math.*, Vol. **26** (2000), 4, 423-426.
- [10] Ali Jaballah, [*Reduced fuzzy primary decomposition for fuzzy ideals*](#), *The Journal of Fuzzy Mathematics* Vol. **9** (2001), no 1, 37-42.
- [11] Fathi B. Saidi and Ali Jaballah, *Existence and uniqueness of fuzzy ideals*, *Fuzzy sets and systems*, **149** (2005), no 3, 527-541, *Elsevier*.
- [12] ³Ali Jaballah, *The number of overrings of an integrally closed domain*, *Expo. Math.* **23**(4) (2005) 353-360, *Elsevier*.
- [13] Ali Jaballah and Fathi B. Saidi, *Uniqueness results in the representation of families of sets by fuzzy sets*, *Fuzzy sets and systems*, **157**(2006), no 7, 964-975, *Elsevier*.
- [14] Ayman Badawi and Ali Jaballah, *Some Finiteness Conditions on the Set of Overrings of a φ -Ring*, [*Houston Journal of Mathematics*](#)**34**(2008), No 2, 397-408.
- [15] Fathi B. Saidi and Ali Jaballah, *From Fuzzy Sets to the Decompositions of Non-Rigid Sets*, *Fuzzy Sets and Systems* 158 (2007) 1751-1766, *Elsevier*.
- [16] Mabrouk Ben Nasr and Ali Jaballah, *Counting Intermediate rings in normal pairs*, *Expo. Math*26 (2008) 163 – 175, *Elsevier*.
- [17] Fathi B. Saidi and Ali Jaballah, *Alternative characterizations for the representation of families of sets by fuzzy sets*, *Information Sciences* **178** (2008) 2639–2647, *Elsevier*.
- [18] Fathi B. Saidi and Ali Jaballah, *Uniqueness in the generalized representation by fuzzy sets*, *Fuzzy Sets and Systems* **159** (2008) 2176 – 2184, *Elsevier*.
- [19] Ali Jaballah and Fathi B. Saidi, *Length of maximal chains and number of fuzzy ideals in commutative rings*, [*Journal of Fuzzy Mathematics*](#), Vol.**18**, No. 3 (2010), Published quarterly by International Fuzzy Mathematics Institute, Los Angeles , California, USA.
- [20] Ali Jaballah, *Ring extensions with some finiteness conditions on the set of intermediate rings*, [*Czechoslovak Mathematical Journal*](#), **60** (1) (2010), 117–124, [Springer](#).
- [21] Ali Jaballah, *Automorphisms related properties and chain decompositions*,[*Int.J.Contemp.Math.Sciences*](#), Vol 5, 2010, no. 35, 1705-1718, [Hikari](#).
- [22] Ali Jaballah, *Numerical characterizations of some integral domains*, [*MonatsheftefürMathematik*](#),Vol. **164** (2) , 2011,171-181, [SpringerVerlag](#).
- [23] ⁴Ali Jaballah, *Maximal Non-Prüfer and Maximal Non-Integrally Closed Subrings of a Field*, [*Journal of Algebra and its Applications*](#), Vol. 11, No. 5

³Paper [12] was featured three times by The ScienceDirect **Top 25 Hottest Articles** in the journal *Expositiones Mathematicae* for October-December 2005, January-March 2006 and October-December 2008, see the webpages:

It was featured in **Top 10 Cited** (articles published in the last five years),

⁴Paper [23] was featured by The World Scientific **Most Read Articles** in the *Journal of Algebra and its application* for December 2012.

- (2012)1250041 (18 pages), World Scientific. DOI: 10.1142/S0219498811005658
- [24] Ali Jaballah, *Graph theoretic characterizations of maximal non-valuation subrings of a field*, [Beiträge zur Algebra und Geometrie / Contributions to Algebra and Geometry](#): Volume 54, Issue 1 (2013), Page 111-120, Springer Verlag. DOI:10.1007/s13366-012-0101-y
- [25] Ali Jaballah, [Integral Domains Whose Overrings are Discrete Valuation Rings](#), An. Stiint. Univ. Al. I. Cuza. Mat. ([Annals of the Alexandru Ioan Cuza University – Mathematics](#)), Tomul 62, 2016, f. 2, Vol. 1, 361-369, De Gruyter
- [26] A. Jaballah, Subrings of \mathbb{Q} , Journal of Science & Technology, Vol 2, No 2, A, December 1997,
<http://ust.edu/ojs/index.php?journal=JST&page=article&op=view&path%5B%5D=219>
- [27] Moussa Benoumhani and Ali Jaballah, Finite Fuzzy Topological Spaces, Fuzzy sets and systems, 2016, Available online 22 November 2016, [Elsevier](#).
- [28] Ali Jaballah and Fathi B. Saidi, Orthogonal Symmetries and Reflections in Banach Spaces, to appear in Journal of Mathematics.

Organization of Conferences

I was involved in the organization of the following local and international mathematics conferences:

- UAE Math Days Conferences on 2001, 2004, 2005, 2007, 2008, 2009, 2010, 2011, 2012, 2013, 2014, 2015, 2016 and 2017.
- The First International Conference on Mathematics and Statistics AUS-ICMS '10 (Co-sponsored by the American Mathematical Society), Algebra session, American University of Sharjah, March 18-21, 2010.
- First conference organized by The Saudi Association of Mathematical Sciences, Riyadh 1993.

Talks Given at Conferences, Workshops and Seminars

1. *Counting the number of fuzzy topologies, International Conference on Algebra and its Applications - ICCA 2017, Errachidia, Morocco, 26-28 April, 2017*
2. *Chained Finite Fuzzy Topological Spaces, UAE Math Day 2017, University of Sharjah, UAE, March 11, 2017.*
3. *Counting the number of certain fuzzytopologies defined on a finite set, Seminar of the department of Mathematics, University of Sharjah, February 26, 2017.*
4. *Spectra of integral domains and star operations, Fifth Commutative Algebra Research Group Workshop, Department of Mathematics and Statistics, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia, April 25, 2016.*
5. *Maximal non-discrete topologies of finite fuzzy topological spaces, The sixth International Conference on Mathematical Sciences, ICM2016, United Arab Emirates University, Al-Ain, UAE, March 21-24, 2016.*
6. *Finite fuzzy topological spaces with a small number of open sets, UAE Math Day 2016, New York University Abu Dhabi, UAE, March 12, 2016.*
7. *Trees, overrings, and semistar operations, Seminar of the department of Mathematics, University of Sharjah, October 10, 2015.*
8. *Fuzzy Sets and properties of the unit interval, Summer school, Mediterranean Institute for the Mathematical Sciences, Tunis, 22-23 July 2015.*
9. *Trees, overrings, and semistar operations, International Conference on Mathematics and Statistics AUS-ICMS '15, American University of Sharjah, Sharjah, UAE April 2015*
10. *Maximal Ideals and semistar operations, 13th UAE Math Day, Sorbonne University Abu Dhabi, UAE, March, 14, 2015 (Pi day).*
11. *Orthogonality in the Space $C(I)$, International Conference on Operator Theory, ICOT 2014, Hammamet, Tunisia, April 28-May 1, 2014.*
12. *Faithful Sub-chains of Totally Ordered Sets, 12th UAE Math Day, American University of Dubai, UAE, April 19, 2014.*
13. *Non-Valuation Domains Whose Overrings are Valuation, Seminar of the department of Mathematics, University of Sharjah, November 11, 2013*

14. *An Algorithm for Determining the Cardinality of the Collection of Fuzzy Subgroups of Several Finite Groups*, GGRRT 2013 (Groups, Group Rings & Related Topics), United Arab emirates University, October 28-31, 2013
15. *Maximal non-Discrete Subrings of a Field*, 11th UAE Math Day, United Arab Emirates University, UAE, April 27, 2013
16. *Overrings and Prime Ideals of Maximal Non-Prüfer Subrings of a Field*, 4th workshop on algebra, geometry and applications, department of mathematics and statistics, College of Science, Sultan Qaboos University, December 8, 2012
17. *Treed Domains with Minimal Saturated Chains of Overrings*, Seminar of the department of Mathematics, University of Sharjah , November, 2012
18. *Finiteness and numerical characterizations of some integral domains*, 2012 Commutative Algebra Research Group One-Day Workshop, Department of Mathematics and Statistics, King Fahd University of Petroleum and Minerals, Dhahran, Saudi Arabia, April 29, 2012
19. *Non-Prüfer Integral Domains with a Minimum Number of Overrings*, 10th UAE Math Day, April 14, 2012, American University of Sharjah
20. *Pullback Characterizations of Maximal Non-Prüfer Subrings of a Field*, The fourth International Conference on Mathematical Sciences, ICM2012, Commutative Algebra session, United Arab Emirates University, Al-Ain, UAE, March 11-14, 2012
21. *Overrings of maximal non-integrally closed subrings*, International conference on the theory of radicals, rings and modules, Department of Mathematics and Statistics, Sultan Qaboos University, Muscat, Oman, 20-26 January 2012
22. *Topological properties of the unit interval and representation of fuzzy sets*, Seminar of the department of Mathematics, Sharjah University, 28 December 2011
23. *The spectrum of a maximal non-integrally closed domain*, NZMS Mathematics Colloquium, Auckland University and Auckland University of Technology, Auckland, New Zealand, 6-8 December 2011
24. *Ring Extensions Characterized by Several Finiteness and Chain Conditions*, Conference on Algebra and Applications, Caldas Novas, Brazil, 8-12 May 2011
25. *Non-Integrally Closed Integral Domains Whose Overrings are Integrally Closed*, 9th UAE Math Day, AUST, Ajman, UAE, 9-10 April 2011
26. *Maximal non-integrally closed subrings of a field*, Seminar of the department of Mathematics, University of Sharjah , March 19, 2011
27. *Finiteness and Numerical Characterizations of some ring extensions*, 3rd Workshop on Algebra and Its Applications, Sultan Qaboos University, December 22, 2010
28. *Numerical characterizations for some integral domains(invited)*, Commutative Ring Theory Days 2010, University "Roma Tre", Rome, May 19 - 21, 2010
29. *Graphs Characterizing Some Integral Domains*, Seminar of the department of Mathematics, University of Sharjah , April 2010
30. *Graph Theoretic Characterizations of Maximal Non-Valuation Subrings of a Field*, The 8th UAE Math Day Conference, Zayed University, April 2010
31. *Numerical characterizations for some integral domains (Poster)*, Fourth Saudi Science Conference, Al-Madinah Al-Munawwarah, March 21 - 24, 2010

32. *Ring extensions with some finiteness conditions on the set of intermediate rings*, The First International Conference on Mathematics and Statistics AUS-ICMS '10, American University of Sharjah, March 2010
33. *Length of maximal chains and number of fuzzy ideals in commutative rings*, The First International Conference on Mathematics and Statistics AUS-ICMS '10, American University of Sharjah, March 2010
34. *A numerical characterization of Prüfer domains*, The 7th UAE Math Day Conference, University of Sharjah, April 2009
35. *Automorphism related properties and chain decompositions*, The 7th UAE Math Day Conference, University of Sharjah, April 2009
36. *Cardinality of the set of fuzzy ideals*, The 7th UAE Math Day Conference, University of Sharjah, April 2009
37. *Fuzzy Ideals Representing Families of Ideals*, 2nd Workshop on Algebra and its applications, Sultan Qaboos University, December 2008
38. *Alternative characterizations of ring extensions satisfying some finiteness conditions*, Conference on Rings and Modules, Lisbon, Portugal, September 2008.
39. *Finiteness Conditions on the set of intermediate rings*, Algebra and Combinatorics Seminar, Department of Mathematics, University of Auckland, New Zealand, August 2008.
40. *New characterizations of integral domains with only finitely many overrings*, Mathematics and statistics seminarseries, American University of Sharjah, May 2008
41. *Ring extensions with some finiteness conditions*, Seminar of the department of Mathematics, University of Sharjah , April 2008
42. *Intermediate rings and overrings with some finiteness conditions*, The 6th UAE Mathematics Day, Petroleum Institute, Abu Dhabi, April 2008
43. *Computing the number of fuzzy subgroups of finite groups*, The 6th UAE Mathematics Day, Petroleum Institute, Abu Dhabi, April 2008
44. *Rigid Subsets of Real Numbers*, Mathematics and statistics seminarseries, American University of Sharjah, May 2007
45. *Hypersurfaces and algebraic varieties*, The 5th UAE Mathematics Day, Ettisalat University, Sharjah, April 2007
46. *Finite ring extensions*, Workshop on Algebra and its applications, Sultan Qaboos University, December 2006
47. *From fuzzy sets to rigid sets*, 37th Annual Iranian Math. Conference, Azerbaijan University, September 2006
48. *Cardinality and length of chains of intermediate rings*, 37th Annual Iranian Math. Conference, Azerbaijan University, September 2006
49. *Two Equations on Intermediate Rings*, The 4th UAE Mathematics Day, University of Sharjah, April 2006
50. *Rigid Sets and the Representation Theorem (presented by FathiSaidi)*, The 4th UAE Mathematics Day, University of Sharjah, April 2006
51. *Pairs of Rings with Some Finiteness Conditions, Algebras /Coalgebras Conference, Cairo, March 2006*
52. *Order Isomorphisms on the Set of Real Numbers*, Seminar of the department of mathematics and statistics, Sultan Qaboos University, December 2005

53. *Order and topology of some sets of real numbers*, Seminar of the department of basic sciences, University of Sharjah , September 2005
54. *Fuzzy ideals and fuzzy modules with finiteness conditions*, First Scientific research forum at UOS, 14-15 May 2005
55. *Chains of intermediate rings*, The 3rd UAE Math Day, UAE University, April 2005
56. *Existence and uniqueness of fuzzy ideals*, ICM2004, UAE University, December 2004
57. *How many equations are needed to define an algebraic variety?* Mathematics and statistics seminar series, American University of Sharjah, December 2004
58. *Existence and uniqueness of fuzzy ideals*, Seminar of the department of basic sciences, University of Sharjah, November 2004
59. *The number of overrings of integrally closed domains*, The 2nd UAE Math Day, American University of Sharjah, April 2004
60. *Is any curve the intersection of two surfaces?* Seminar of the department of basic sciences, University of Sharjah , March 2004
61. *Integral domain with only finitely many overrings*, Mathematics and statistics seminar series, American University of Sharjah, February 2004
62. *Extensions of integral domains with only finitely many intermediate rings*, Algebraic Geometry, Algebra and Applications, Borovetz, Bulgaria, Sept. 2003
63. *Ring extensions with some finiteness conditions*, The 1st UAE Mathematics Day, University of Sharjah, May 2003
64. *Integral domain with only finitely many overrings*, Seminar of the department of basic sciences, University of Sharjah , October 2002
65. *Integral domain with only finitely many overrings*, Seminar of the Department of Mathematics, The University of Waikato, Hamilton, New Zealand, August 2002
66. *The number of overrings of Prüfer domains*, Algebra Conference, Venice International University, June 2002
67. *Introduction to fuzzy sets*, Seminar of the department of basic sciences, University of Sharjah , April 2002
68. *Ring extensions with finite number of intermediate rings*, Seminar of the department of basic sciences, University of Sharjah , October 2001
69. *Spectrums of ring extensions*, Seminar of the department of mathematics, Qatar University, January 2000
70. *How to compute the exact number of intermediate rings in some ring extensions*, Seminar of algebraic geometry and number theory, the Mathematics Institute of the University of Münster, Germany, June 1999
71. *Cardinality of the set of fuzzy ideals*, 58th Workshop on general algebra, AAA 58, Vienna, June 1999.
72. *Counting intermediate rings*, Workshop on commutative Algebra, Rome, June 1999.
73. *How to compute the exact number of intermediate rings in some ring extensions*, Seminar of Algebra, Geometry and Combinatorics, Mathematics Department, University of Auckland, May 1999.
74. *Upper bounds for the number of overrings of Prüfer domains*, The Australian mathematical society annual meeting, Sydney, 1998.

75. *Minimal overrings and intermediate rings*, The New Zealand Mathematics Colloquium, Wellington, 1998.
76. *The number of intermediary rings in normal pairs*, Seminar of the Department of Mathematics, The University of Waikato, Hamilton, New Zealand, 1997.
77. *The number of intermediary rings in some ring extensions*, Seminar of Algebra, Geometry and Combinatorics, Mathematics Department, University of Auckland, 1997.
78. *Minimal generating systems for fuzzy ideals*, Seminar of Algebra, Münster University, Germany, 1996.
79. *Residually Algebraic Pairs of Rings*, Seminar of Algebra, Münster University, Germany, 1995.
80. *Generating ideals in discrete Hodge algebras*, Mathematics Colloquium at Umm Ul-Qurauniversity, Saudi Arabia, 1993.
81. *The Dilworth number of Stanley-Reisner rings*, Workshop on commutative algebra, Trieste, Italy, 1992.
82. *The Dilworth number of some special rings*, Mathematics Colloquium at Umm Ul-Qurauniversity, Saudi Arabia, 1992.
83. *Monomial ideals and set theoretic complete intersection in algebraic geometry*, Mathematics Seminar at Vechta University, Osnabrück, Germany, 1988.

Awards and Scholarships

- Have been granted the Annual Incentives Award for distinguished faculty members in scientific research for the academic year 2008-2009.
- Visiting Professor at the Department of Mathematics, Waikato University, Hamilton, New Zealand, August 2002, and August 2004.
- Research grant from the research center at the University of Sharjah , 2002-2006. Research project: *Fuzzy ideals and fuzzy modules with some finiteness conditions* (with Fathi B. Saidi).
- Honorary Lecturer at the Department of Mathematics, Waikato University, Hamilton, New Zealand, 2000, 2001, and 2002.
- Visiting Professor at the Graduate College of the Mathematics Institute, University of Münster, Germany, June 1999
- Grant from the New Zealand Mathematical Society to participate in some research conferences, 1999.
- Honorary Research Fellow at the Department of Mathematics , School of Mathematical and Information Sciences, Auckland University, Auckland, New Zealand, 1997-1998.
- Associate member of the International Centre for Theoretical Physics, Trieste-Italy, since 1996.
- Grants for research at the International Centre for Theoretical Physics, Trieste, Italy, during 1992, 1994.
- Nominated in Who's Who in the World, 12th edition, 1994.
- Grants for research at the mathematical institute in Münster-Germany, during 1981-82-83, 1984, 1987 and 1988, from the German Office of Academic Exchanges (DAAD) and the University of Münster.