

# Curriculum Vitae

Name: **Abdollah Khodkar, Associate Professor of Mathematics**

Address for correspondence: Department of Mathematics, University of West Georgia, Carrollton, GA 30118

Phone: (W) 678-839-4126, (C) 404-384-6131

Fax: 678-839-6490

Email Address: [akhodkar@westga.edu](mailto:akhodkar@westga.edu)

Home Page: [www.westga.edu/~akhodkar](http://www.westga.edu/~akhodkar)

## Academic Achievement

- Ph.D. in Mathematics (Combinatorics), The University of Queensland, Australia, 1994.  
Research Project: Balanced block designs and various properties.
- M.Sc. in Mathematics, Sharif University of Technology, Iran, 1988.  
Research Project: Partial Differential Equations.
- B.Sc. in Applied Mathematics, Sharif University of Technology, Iran, 1986.  
Final Project: Numerical solutions for some Differential Equations.

## Employment History

- Associate Professor: Department of Mathematics, University of West Georgia, August 2006 – Present.
- Assistant Professor: Department of Mathematics, University of West Georgia, August 2004 – August 2006.
- Research Fellow Level B: Department of Mathematics, The University of Queensland, January 2002 – August 2004.
- Lecturer Level B: Department of Mathematics, The University of Queensland, January 2002 – December 2002, July 2000 – July 2001.
- Visiting Professor: Department of Mathematics, Illinois State University, August 2001 – December 2001.
- Lecturer Level A: Department of Mathematics, The University of Queensland, January 2000 – July 2000.
- Research Officer Level A: Department of Mathematics, The University of Queensland, July 1995 – December 1999.
- Senior Research Assistant/Computer Programmer: Information Security Research Center within the Faculty of Information Technology at Queensland University of Technology, Australia, July 1994 – July 1995.
- Research Assistant: Department of Mathematics, The University of Queensland, December 1993 – July 1994.

- Academic Visitor: Department of Mathematics, The University of Queensland, January 1991 – January 1992.
- Part-Time Lecturer: Faculty of Environmental Sciences, Griffith University, January 2000 – July 2000, Department of Mathematics, The University of Queensland, July 1999 – December 2000, February 1997 – July 1997, Sharif University of Technology (Iran), January 1988 – January 1991.
- Tutorial Assistant: Department of Mathematics, Queensland University of Technology, February 1995 – July 1995, Department of Mathematics, The University of Queensland, January 1993 – December 1993.
- Tutor: Sharif University of Technology (Iran), January 1985 – January 1988.
- Teacher: Farzin High School (Iran), September 1980 – January 1985.

### Courses Taught

- **Graduate Courses:** Linear Algebra II, Algebra II, Coding Theory and Cryptography III, Geometries and Designs and Discrete Mathematics.
- **Undergraduate Courses:** Quantitative Skills and Reasoning, College Algebra, Survey of Calculus, Calculus I, II, III, A Transition to Advance Mathematics, Mathematics for the Environment, Differential Equations, Set Theory, Number Theory, Linear Algebra I, Algebra I, and Graph Theory.

### Graduate Student Research Direction

- Co-advisor: Dr. Nicholas J. Cavenagh (supervisor: Dr D. Donovan), Department of Mathematics, the University of Queensland (2001-2004). This supervision has proved extremely productive with four joint papers.
- Co-advisor: Dr. Mahmoud Sheikholeslami (supervisor: Dr M.A. Shahabi), Department of Mathematics, University of Azarbaijan, Iran (2000-2003). This supervision has led to three joint publications.
- Co-advisor: Mr. Carlo Hamalainen (supervisor: Dr D. Donovan), Department of Mathematics, the University of Queensland (2003-2004).

### Undergraduate Student Research Direction

- Research Experiences for Undergraduates (REU) at UWG, 2007–2009.
- Joshua Ramsey: GEMS Summer 2008 Research Fellowship Program, UWG.
- Taeler Porter and Scott Gildemeyer: GEMS Summer 2007 Research Fellowship Program, UWG.
- Staci Sisk: GEMS Summer 2006 Research Fellowship Program, UWG.

## Other Professional Experience

- A reviewer for Mathematical Reviews.
- Nominated as an “Expert of International Standing” by Australian Research Council (ARC): Assessor for Discovery Projects Scheme Grant Applications.
- Organizing Conferences:
  - A member of organizing committee of the Integer Conference October 24-27, 2007 and the Integer Conference October 12-15, 2005, University of West Georgia Carrollton, Georgia.
  - Secretary of the Organizing Committee of the 13th Australasian Workshop on Combinatorial Algorithms (AWOCA2002). Member of the Program Committee and a co-editor of the Proceedings of AWOCA. Co-editor of the Proceedings of the 37th Annual Iranian Mathematics Conference (AIMC37).
- Invited Speaker:
  - Workshop on “Graph Decompositions and related trade structures”, The University of Queensland, Australia (July 2007).
  - Invited Speaker: The 37th Annual Iranian Mathematics Conference, Azarbaijan University of Tarbiat Moalem (September 2006).
  - Invited Lecturer: Ramkhamheang University (Thailand), March 1999 – April 1999.
- Referee for Journals: Journal of Combinatorial Theory Ser A; Discrete Mathematics; Journal of Combinatorial Designs; Graphs and Combinatorics; Discrete Applied Mathematics; The International Journal of Mathematics and Computer Science; Utilitas Mathematica; Ars Combinatoria; Australasian Journal of Combinatorics; Journal of Statistical Planning and Inference; Integers: Electronic Journal of Combinatorial Number Theory; Global Journal of Pure and Applied Mathematics; Bulletin of the Institute of Combinatorics and its Applications; Discussiones Mathematicae Graph Theory; Iranian Journal of Science and Technology.
- Associate Editor for International Journal of Applied Mathematics and Statistics (IJAMAS) (2005-2006).

## Service Committees

### Departmental Service

- Center for Applied Mathematics and Science (2009-2010 member)
- Ad Hoc Committee for Standardized Finals (2009-2010 member)
- Department Advisory Committee (2008-2010 member)
- Scholarship Committee (2005-2006, 2008-2010 member), (2007-2008 Chair)

- Department Tenure and Promotion Committee (2006-2007, 2009-2010 member, 2008-2009 Chair)
- Assessment Committee (2006-2010 Chair)
- Graduate Committee (2004-2010 member)
- Seminar/Colloquium Committee (2005-2008 member)
- Search Committee (2004-2006 member)

### University Service

- UWG Post-Tenure Review Appeals (2008-2009 member)
- Faculty Tenure and Promotion Committee (2006-2008, 2009-2010 member)
- Faculty Advisory Committee (2006-2007-2008 member)
- Writing Across the Curriculum Committee (2005-2008 member)
- Student Advisor: College Student Inventory, CSI (2006-2007)
- Early Transfer Orientation for Spring Semester 2005, member
- New Freshmen Orientation, Fall 2005, 2006
- Liaison to Other Sciences (2005-2006)

### Membership

- The Institute of Combinatorics and its Applications
- American Mathematical Society
- Australian Mathematical Society
- Iranian Mathematical Society

### Computing Experience

Very good knowledge of: C Language, Fortran 90, Pascal, PL1, COBOL, Latex, Matlab, Mathematica, Maple, Magma, CPLEX, Otter.

### Awards

- **NSF REU Grant**, “Problems in Combinatorics and Graph Theory”, 2007-2009, Fund \$216,422.
- Faculty Research Grant: University of West Georgia, July 2005, July 2007.
- Overseas Postgraduate Research Scholarship for PhD in Combinatorics from Australian government, January 1992-1994.
- Departmental Scholarship: Department of Mathematics, the University of Queensland, 1992-1994.

- University Scholarship: Sharif University of Technology, Iran, 1986-1988.

## Presentations

I have presented papers at the international conferences and research centers including: Mathematical Abundance: Designs, Graphs and Number Theory, Illinois State University April 2008; 21st British Combinatorial Conference, University of Reading July 2007; Workshop on Combinatorial Trades, The University of Queensland, Australia July 2007; The 38th South East Conference on Combinatorics, Graph Theory and Computing, Florida (2007); The 37th Annual Iranian Mathematics Conference, Tabriz (2006); Mid-West Graph Theory Conference (1997, 2001, 2005); American Mathematical Society (2005); Australasian Workshop on Combinatorial Algorithms (2002); Australasian Conference on Combinatorial Mathematics and Combinatorial Computing (1993, 1996, 1998, 1999, 2000).

I have also presented papers at different universities including:

**USA:** Illinois State University (1997, 2001, 2003, 2006, 2008), University of Illinois (1997, 2003), Auburn University (1997, 2006, 2008, 2009), University of West Georgia (2004, 2005)

**Australia:** The University of Queensland (1995, 1999, 2001, 2007)

**Iran:** Sharif University of Technology (1997, 2001, 2003, 2005, 2006, 2007), University of Mazandaran (2005), Azarbaijan University of Tarbiat Moallem (2005, 2006, 2007), Tabriz University (2005)

**Canada:** Defence Center at the University of Manitoba (1997), the University of Manitoba (1997)

**Thailand:** Ramkhamheang University (1999)

## Referees

- Professor Charles Curtis Lindner: Department of Discrete and Statistical Sciences, Auburn University, Auburn, Alabama 36849-5307,  
Email Address: [lindncc@mail.auburn.edu](mailto:lindncc@mail.auburn.edu)  
Phone: 1-334-844-3747, Fax: 1-334-844-3611.
- Professor John van Rees: Department of Computer Science, University of Manitoba, Winnipeg, Manitoba Canada R3T 2N2  
Email address: [vanrees@cs.umanitoba.ca](mailto:vanrees@cs.umanitoba.ca)  
Phone: 1-204-474-8683, Fax: 1-204-474-7609.
- Professor Chris Rodger: Department of Discrete, and Statistical Sciences, Auburn University, Auburn, Alabama 36849-5307, USA.  
Email Address: [rodgec1@mail.auburn.edu](mailto:rodgec1@mail.auburn.edu)  
Phone: 1-334-844-3746, Fax: 1-334-844-3611.
- Dr Elizabeth J. Billington: Department of Mathematics, The University of Queensland, Brisbane, QLD. 4072, Australia.  
Email Address: [ejb@maths.uq.edu.au](mailto:ejb@maths.uq.edu.au)  
Phone: 617-33652313, Fax: 617-33651477.
- Dr Diane M. Donovan: Department of Mathematics, The University of Queensland, Brisbane, QLD. 4072, Australia.  
Email Address: [dmd@maths.uq.edu.au](mailto:dmd@maths.uq.edu.au)

Phone: 617-33651354, Fax: 617-33651477.

## PUBLICATIONS

### Research papers:

1. A. Khodkar, *Construction of some balanced ternary designs from one factorizations*, *Utilitas Mathematica* **42** (1992), 213–217.
2. A. Khodkar, *Balanced ternary designs with holes and numbers of common triples*, *Australasian Journal of Combinatorics* **7** (1993), 111–122.
3. A. Khodkar, *The fine structure of balanced ternary designs with block size three*, *Utilitas Mathematica* **44** (1993), 197–230.
4. E.J. Billington, A. Khodkar and E.S. Mahmoodian, *Balanced ternary designs with block size four*, *Journal of Statistical Planning and Inference* **37** (1993), 95–126.
5. A. Khodkar, *Various super-simple designs with block size four*, *Australasian Journal of Combinatorics* **9** (1994), 201–210.
6. A. Khodkar, *Balanced block designs and various properties*, *Bulletin of the Australian Mathematical Society* **50** (1994), No. 2, 349–350.
7. A. Khodkar, *Number of common triples in simple balanced ternary designs*, *Ars Combinatoria* **40** (1995), 235–246.
8. A. Khodkar, *Smallest defining sets for the 36 non-isomorphic twofold triple systems of order nine*, *Journal of Combinatorial Mathematics and Combinatorial Computing* **17** (1995), 209–215.
9. A. Khodkar, *Twofold triple systems having a prescribed number of triples in common*, *Utilitas Mathematica* **48** (1995), 203–214.
10. E. Dawson and A. Khodkar, *On burst-error correcting algorithm for Reed-Solomon codes*, *Electronics Letters* **31** No. 11 (1995), 848–849.
11. J. Golić, M. Salmasizadeh, M. Clark, A. Khodkar and E. Dawson, *Discrete Optimisation and Fast Correlation Attacks*, *Preproceedings of CPAC 1995*, Queensland University of Technology, 3–5 July 1995, 527–538.
12. A. Khodkar, *The fine structure of  $(v, 3)$  directed triple systems:  $v \equiv 0$  or  $1 \pmod{3}$* , *Ars Combinatoria* **43** (1996), 213–224.
13. J. Golić, M. Salmasizadeh, E. Dawson and A. Khodkar, *Cryptanalysis of the summation generator with three input LFSRs*, *Proceedings of International Symposium on Information Theory and Its Application 1996*, volume 1, pages 343–346. the University of Victoria, 1996.
14. P. Adams, D.E. Bryant and A. Khodkar, *On the existence of super-simple designs with block size 4*, *Aequationes Mathematicae* **51** (1996), 230–246.
15. D.E. Bryant and A. Khodkar, *A census of  $(9; 1; 3, 2)$  balanced ternary designs*, *Journal of Combinatorial Mathematics and Combinatorial Computing* **23** (1997), 153–160.

16. P. Adams, D.E. Bryant, A. Khodkar and S.I. El-Zanati, *The intersection problem for 3-cubes*, Australasian Journal of Combinatorics **15** (1997), 127–134.
17. P. Adams, D.E. Bryant and A. Khodkar, *Uniform 3-Factorisations of  $K_{10}$* , Congressus Numerantium **127** (1997), 23–32.
18. D.E. Bryant and A. Khodkar, *On orthogonal double covers of graphs*, Designs, Codes and Cryptography **13** (1998), 103–105.
19. P. Adams, D.E. Bryant and A. Khodkar, *3, 5-cycle decompositions*, Journal of Combinatorial Designs **6** (1998), 91–110.
20. A. Khodkar and D.G. Hoffman, *On the non-existence of Steiner  $(v, k, 2)$  trades with certain volumes*, Australasian Journal of Combinatorics **18** (1998), 303–311.
21. A. Khodkar, *On smallest critical sets for the elementary abelian 2-group*, Utilitas Mathematica **54** (1998), 45–50.
22. D.E. Bryant and A. Khodkar, *5-cycle systems of  $K_v \setminus F$  with a hole*, Utilitas Mathematica **54** (1998), 59–73.
23. D.E. Bryant, H.L. Fu and A. Khodkar,  *$(m, n)$ -cycle systems*, Journal of Statistical Planning and Inference **74** (1998), 365–370.
24. P. Adams, D.E. Bryant and A. Khodkar, *On the number of repeated triples in balanced ternary designs with index two*, Utilitas Mathematica **55** (1999), 55–64.
25. D.E. Bryant, A. Khodkar and S.I. El-Zanati, *Small embeddings for partial  $G$ -designs when  $G$  is bipartite*, Bulletin of the Institute of Combinatorics and its Applications **26** (1999), 86–90.
26. N. Hamilton and A. Khodkar, *On minimum possible volumes of strong Steiner trades*, Australasian Journal of Combinatorics **20** (1999), 197–203.
27. D.E. Bryant and A. Khodkar, *Maximum packings of  $K_v - K_u$  with triples*, Ars Combinatoria **55** (2000), 259–270.
28. P. Adams, D.E. Bryant and A. Khodkar, *The fine structure of balanced ternary designs with block size three, index three and  $\rho_2 = 1, 2$* , Ars Combinatoria **56** (2000), 299–308.
29. P. Adams and A. Khodkar, *Smallest critical sets for the groups of size eight*, Journal of Combinatorial Mathematics and Combinatorial Computing **32** (2000), 23–32.
30. P. Adams, D.E. Bryant and A. Khodkar, *The spectrum problem for  $\lambda$ -fold Petersen graph designs*, Journal of Combinatorial Mathematics and Combinatorial Computing **34** (2000), 159–176.
31. P. Adams, D.E. Bryant and A. Khodkar, *The spectrum problem for closed  $m$ -trail systems,  $m \leq 10$* , Journal of Combinatorial Mathematics and Combinatorial Computing **34** (2000), 223–240.
32. P. Adams, D.E. Bryant and A. Khodkar, *On Alspach's conjecture with two even cycle lengths*, Discrete Mathematics **223** (2000), 1–12.

33. P. Adams, D.E. Bryant and A. Khodkar, *The fine structure of  $(v, 3)$  directed triple systems:  $v \equiv 2 \pmod{3}$* , Ars Combinatoria **57** (2000), 3–11.
34. P. Adams, E.J. Billington, D.E. Bryant and A. Khodkar, *The  $\mu$ -way intersection problem for  $m$ -cycle systems,  $\mu \geq 3$* , Discrete Mathematics **231** (2001), 27–56.
35. A. Khodkar and S. Zahrai, *On single laws for varieties of quasigroups associated with 2-perfect extended cycle systems*, Communications in Algebra **29** (2001), 1669–1676.
36. P. Adams and A. Khodkar, *Smallest critical sets for the latin squares of orders six and seven*, Journal of Combinatorial Mathematics and Combinatorial Computing **37** (2001), 225–237.
37. P. Adams, A. Khodkar and C. Ramsay, *Smallest defining sets of some STS(19)*, Journal of Combinatorial Mathematics and Combinatorial Computing, **38** (2001), 225–230.
38. D.E. Bryant and A. Khodkar, *On the intersection problem for 1-factorizations and near 1-factorizations of  $K_v$* , Utilitas Mathematica **60** (2001), 209–218.
39. P. Adams and A. Khodkar, *Smallest weak and smallest totally weak critical sets in the latin squares of order at most seven*, Ars Combinatoria **61** (2001), 287–300.
40. P. Adams and A. Khodkar, *On the direct product of two weak uniquely completable partial latin squares*, Utilitas Mathematica **60** (2001), 249–253.
41. A. Khodkar and S. Zahrai, *On single laws for varieties of groupoids associated with strongly 2-perfect  $m$ -cycle systems*, Algebra Universalis **46** (2001), 499–513.
42. D.M. Donovan, C.M. Fu and A. Khodkar, *A discussion of 2-critical sets in Abelian 2-groups*, Proceedings of the Twelfth Australasian Workshop on Combinatorial Algorithms (AWOCA2001), Ed. Edy Tri Baskoro, Institut Teknologi, Bandung Indonesia, 2001, 88–97.
43. P. Adams, R. Bean and A. Khodkar, *Disjoint critical sets in Latin squares*, Congressus Numerantium **153** (2001), 33–48.
44. D. Donovan and A. Khodkar, *Premature Partial Latin Squares and Critical Sets*, Proceedings of the Thirteenth Australasian Workshop on Combinatorial Algorithms (AWOCA2002), Eds. E.J. Billington, D. Donovan and A. Khodkar, the University of Queensland, Queensland Australia, 2002, 115–126.
45. D. Donovan, R.A.H. Gower, A. Khodkar, *Latin Interchanges and Direct Products*, Ars Combinatoria **64** (2002), 271–287.
46. D. Bryant and A. Khodkar, *Orthogonal quasigroups associated with  $m$ -cycle systems*, Bulletin of the Institute of Combinatorics and its Applications **36** (2002), 109–112.
47. R. Bean, D. Donovan, A. Khodkar and A.P. Street, *Steiner trades that give rise to completely decomposable latin interchanges*, International Journal of Computer Mathematics **79** (2002), 1273–1284.
48. D.M. Donovan, A. Khodkar, S. Sutinuntopas and S. Thappia, *A note on critical sets in latin squares of order  $2^n - 1$* , Congressus Numerantium **159** (2002), 215–219.

49. D.M. Donovan, A. Khodkar and A.P. Street, *On minimal defining sets in  $AG(d, 3)$* , in Designs 2003: further combinatorial and constructive design theory (edited W.D. Wallis) Kluwer Academic Press, Norwell, Massachusetts, USA, 2003, 103–131.
50. D.M. Donovan, A. Khodkar and A.P. Street, *Doubling and tripling constructions for defining sets in Steiner triple systems*, Graphs and Combinatorics **19** (2003), 65–89.
51. A. Khodkar, M.A. Shahabi and S.M. Sheikholeslami, *2-critical sets for a class of groups*, Congressus Numerantium **164** (2003), 53-64.
52. N.J. Cavenagh and A. Khodkar, *Balanced critical sets in Latin squares*, Utilitas Mathematica **64** (2003), 229–249.
53. D. Donovan and A. Khodkar, *Product constructions for critical sets in latin squares*, Proceedings of the Fifteenth Midwest Conference on Combinatorics, Cryptography and Computing (Las Vegas, NV, 2001), Journal of Combinatorial Mathematics and Combinatorial Computing **46** (2003), 227–254.
54. P. Adams, R. Bean and A. Khodkar, *A census of critical sets in the Latin squares of order at most six*, Ars Combinatoria **68** (2003), 203–223.
55. A. Khodkar, M.A. Shahabi and S.M. Sheikholeslami, *Families of 2-critical sets for dihedral groups*, Australasian Journal of Combinatorics **29** (2004), 173–186.
56. A. Khodkar and S. Zahrai, *2-perfect  $m$ -cycle systems can be defined by single laws*, Bulletin of the Institute of Combinatorics and its Applications **40** (2004), 40–48.
57. D.M. Donovan and A. Khodkar, *Uniform critical sets in Latin squares*, Journal of Combinatorial Mathematics and Combinatorial Computing **48** (2004), 3–23.
58. N.J. Cavenagh, A. Khodkar, S.I. El-Zanati and C. Vanden Eynden, *On a generalization of the Oberwolfach Problem*, Journal of Combinatorial Theory Ser. A **106** (2004), 255–275.
59. D.M. Donovan, C.M. Fu and A. Khodkar, *An investigation of 2-critical sets in Latin squares*, Ars Combinatoria **72** (2004), 223-234.
60. D. Donovan, C. Hamalainen, A. Khodkar and N. Cavenagh, *On greedy critical sets in latin squares*, AWOCA, Proceedings of fifteenth Australasian Workshop on Combinatorial Algorithms, 6–9 July 2004, University of Sydney, Editor Seok-Hee Hong.
61. A. Khodkar, S.M. Sheikholeslami and H. Hasanzadeh, *Bounds on double domination numbers of graphs*, Congressus Numerantium **177** (2005), 77–87.
62. A. Khodkar and D. Leach, *On  $(2, r)$ -regular graphs*, Bulletin of the Institute of Combinatorics and its Applications **46** (2006), 27–34.
63. D. Mojdeh, A. Ahmadi Haji, H. Abdollahzadeh Ahangar and A. Khodkar, *The graph  $K_{2,2,r}$  has the property  $M(3)$  for  $4 \leq r \leq 8$* , Bulletin of the Institute of Combinatorics and its Applications **47** (2006), 63-70.
64. D. Mojdeh, N. Jafari Rad and A. Khodkar, *The defining numbers for vertex colorings of certain graphs*, Australasian Journal of Combinatorics **35** (2006), 17–30.

65. R. Khoeilar, S.M. Sheikholeslami and A. Khodkar, *The forcing semi- $H$ -cordial numbers of certain graphs*, Journal of Combinatorial Mathematics and Combinatorial Computing **59** (2006), 151–164.
66. A. Khodkar, D. Mojdeh and A.P. Kazemi, *Domination in Harary graphs*, Bulletin of the Institute of Combinatorics and its Applications **49** (2007), 61–78.
67. A. Khodkar and S.M. Sheikholeslami, *On perfect double dominating sets in grids, cylinders and tori*, Australasian Journal of Combinatorics **37** (2007), 131–139.
68. N.J. Cavenagh, D.M. Donovan and A. Khodkar, *On the spectrum of critical sets in back circulant latin squares*, Ars Combinatoria **82** (2007), 287–319.
69. A. Khodkar and S.M. Sheikholeslami, *The forcing domination numbers of some graphs*, Ars Combinatoria **82** (2007), 365–379.
70. A. Khodkar and R. Xu, *More on even  $[a, b]$ -factors in graphs*, Discussiones Mathematicae Graph Theory **27** (2007), 193–204.
71. M. Atapour, A. Khodkar and S.M. Sheikholeslami, *Characterization of double domination subdivision number of trees*, Discrete Applied Mathematics **155** (2007), 1700–1707.
72. A. Khodkar and B. Landman, *Recent Progress in Ramsey Theory on the Integers*, Integers: Electronic Journal of Combinatorial Number Theory (2007), 305–313.
73. D. Mojdeh, A. Ahmadi Haji, H. Abdollahzadeh Ahangar and A. Khodkar, *Graphs  $K_{1*4,5}$ ,  $K_{1*5,4}$ ,  $K_{1*4,4}$ ,  $K_{2,3,4}$  have the property  $M(3)$* , Ars Combinatoria **84** (2007), 171–190.
74. A. Khodkar, D. Leach and D. Robinson, *Every  $(2, r)$ -regular graph is regular*, Utilitas Mathematica **73** (2007), 169–172.
75. H. Karami, A. Khodkar, and S.M. Sheikholeslami, *Trees whose double domination number is twice their domination number*, Congressus Numerantium **186** (2007), 49–56.
76. A. Khodkar and W. de Launey, *On the Range of Influences in Back-Circulant Latin Squares*, Discrete Mathematics **308** (2008), 2896–2900.
77. N. Cavenagh, D. Donovan, A. Khodkar and J. van Rees, *When is a partial latin square uniquely completable, but not its completable product?*, Discrete Mathematics **308** (2008), 2830–2843.
78. H. Karami, A. Khodkar, R. Khoeilar and S.M. Sheikholeslami, *Trees whose total domination subdivision numbers is one*, Bulletin of the Institute of Combinatorics and its Applications, **53** (2008), 57–67.
79. H. Karami, A. Khodkar and S.M. Sheikholeslami, *Some notes on signed edge domination in graphs*, Graphs and Combinatorics, **24** (2008), 29–35.
80. H. Karami, A. Khodkar, and S.M. Sheikholeslami, *Signed edge majority domination numbers in graphs*, Australasian Journal of Combinatorics **41** (2008), 291–296.

81. D.M. Donovan, N. Cavenagh and A. Khodkar, *Minimal defining sets of 1-factorizations of complete graphs*, Utilitas Mathematica **76** (2008), 191–211.
82. M. Atapour, S.M. Sheikholeslami, A. Hansberg, L. Volkmann and A. Khodkar, *2-dominaton subdivision number of graphs*, AKCE Journal of Graphs and Combinatorics **5** (2008), 169–177.
83. A. Khodkar, B.P. Mobaraky and S.M. Sheikholeslami, *Upper bounds for the Roman domination subdivision number of a graph*, AKCE Journal of Graphs and Combinatorics **5** (2008), 7–14.
84. H. Karami, A. Khodkar and S.M. Sheikholeslami, *Lower bounds on signed edge total domination numbers in graphs*, Czechoslovak Mathematical Journal **58**(133) (2008), 595–603.
85. H. Karami, A. Khodkar, and S.M. Sheikholeslami, *Lower bounds on signed domination numbers of directed graphs*, Discrete Mathematics **309** (2009), 2567-2570.
86. H. Karami, A. Khodkar, and S.M. Sheikholeslami, *An improved upper bound for signed edge domination numbers in graphs*, Utilitas Mathematica **78** (2009), 121–128.
87. A.N. Ghameshlou, A. Khodkar, R. Saei and S.M. Sheikholeslami, *Negative  $k$ -subdecision numbers in graphs*, AKCE International Journal of Graphs and Combinatorics **6** (2009), 361–371.
88. H. Karami, A. Khodkar and S.M. Sheikholeslami, *Signed edge domination numbers in trees*, Ars Combinatoria (to appear, accepted 10/25/2005).
89. H. Karami, A. Khodkar, and S.M. Sheikholeslami, *An upper bound for total domination subdivision numbers*, Ars Combinatoria (to appear, accepted 1/18/2007).
90. A. Khodkar and D. Leach, *The chromatic number of  $K^2(9, 4)$  is 11*, Journal of Combinatorial Mathematics and Combinatorial Computing (to appear, accepted 3/19/2007).
91. H. Karami, A. Khodkar, and S.M. Sheikholeslami, *Signed edge majority total domination numbers in graphs*, Ars Combinatoria, (to appear, accepted 10/20/2007).
92. M. Atapour, S.M. Sheikholeslami and Abdollah Khodkar, *Trees whose Roman domination subdivision number is 2*, Utilitas Mathematica (to appear, accepted 1/8/2008).
93. A. Khodkar, R. Saei and S.M. Sheikholeslami, *Signed edge  $k$ -subdomination numbers in graphs*, Ars Combinatoria (to appear, accepted 3/2/2008).
94. K. Ventullo and A. Khodkar, *A three dimensional silver cube of order seven*, Bulletin of the Institute of Combinatorics and its Applications (to appear, accepted 3/12/2008).
95. A. Khodkar, B.P. Mobaraky and S.M. Sheikholeslami, *Roman domination subdivision number of a graph and its complement*, Ars Combinatoria (to appear, accepted 6/1/2008).
96. S. Cichacz, D. Froncek, A. Khodkar and W. Xu, *Super edge-graceful paths and cycles*, Bulletin of the Institute of Combinatorics and its Applications, (to appear, accepted 7/2/2008).

97. A. Khodkar, S. Nolen and J.T. Perconti, *Super Edge-Graceful Labelings of Complete Bipartite Graphs*, Australasian Journal of Combinatorics (to appear, accepted 5/12/2009).
98. A. Khodkar, R. Rasi and S.M. Sheikholeslami, *Super edge-gracefulness of complete graphs*, Utilitas Mathematica (to appear, accepted 5/22/2009).
99. H. Karami, R. Khoeilar, S.M. Sheikholeslami and A. Khodkar, *An upper bound for the total domination subdivision number of a graph*, Graphs and Combinatorics (to appear, accepted 7/24/2009).

Submitted papers:

100. M. Atapour, S.M. Sheikholeslami and A. Khodkar, *Roman domination subdivision number of graphs*, (submitted).
101. H. Karami, A. Khodkar, S.M. Sheikholeslami and D.B. West, *Inequalities of Nordhaus-Gaddum type for connected domination*, (submitted).
102. H. Karami, R. Khoeilar, S.M. Sheikholeslami and A. Khodkar, *An upper bound for the total domination subdivision number of a graph*, (submitted).
103. M. Atapour, S.M. Sheikholeslami and A. Khodkar, *Trees whose 2-domination subdivision number is 2*, (submitted).
104. A.N. Ghameshlou, A. Khodkar and S.M. Sheikholeslami, *The signed bad numbers in graphs*, (submitted).
105. N. Jafari Rad and A. Khodkar,  *$3-\gamma_t$ -critical connected graphs of diameter 3*, (submitted).