

Reza SaeiDinvar (Reza Saei)

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✉ Profesjonshøgskolen, Nord University, Postboks 1490, 8049 Bodø, Norway.



Curriculum Vitae

(November 2017)

## Academic Positions

**Associate Professor of Mathematics** (September 2016 - Present)

Faculty of Professional Studies, at Nord University, Bodø, Norway.

## Education and Training

**Ph.D.** (May 2015)

from the Faculty of Mathematics and Natural Sciences, University of Bergen, Bergen, Norway,

- Thesis Topic: *Algorithmic and combinatorial problems on graph classes*
- Advisor: Prof. Pinar Heggernes

**M.Sc.** (January 2008)

from the Department of Mathematics, Azarbaijan Shahid Madani University, Tabriz, Iran.

- Thesis Topic: *Majority Domination Number in Graphs (in Persian)*
- Advisor: Prof. S.M. Sheikholeslami

**B.Sc.** (September 2005)

from the Faculty of Mathematical Sciences, University of Tabriz, Tabriz, Iran.

- Topic: *Pure Mathematics*

## Research Interests

- Extremal Graph Theory
- Ramsey Theory on Graphs
- Graphs with Particular Structure
- Domination-Type Problems
- Algorithmic Graph Theory

## Honors, Awards and Grants

- 2013; Meltzer research fund award.
- 2012; best Paper Award of the 18th Annual International Computing and Combinatorics Conference (CO-COON 2012). With Rémy Belmonte, Pinar Heggernes and Pim van 't Hof for paper *Ramsey numbers for line graphs and perfect graphs*.
- 2011; admitted to Ph.D. program.  
Institute for Informatics, University of Bergen.
- 2005; admitted to the degree of Master of Science via countrywide examination.  
Department of Mathematics, Azarbaijan Shahid Madani University.
- 2001; admitted to the degree of Bachelor of Science via countrywide examination.  
Faculty of Mathematical Sciences, University of Tabriz.

## Publications

Publications/ Theses

[t2] Saei R. 2015. *Algorithmic and combinatorial problems on graph classes*. PhD dissertation, University of Bergen.

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Curriculum Vitae

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[t1] Saei R. 2008. *Majority Domination Number in Graphs*. Master dissertation, Azarbaijan Shahid Madani University. (in Persian)

#### Publications/ Refereed Journal Publications

[j11] Manu Basavaraju, Pinar Heggernes, Pim van 't Hof, Reza Saei, and Yngve Villanger, *Maximal induced matchings in triangle-free graphs*, Journal of Graph Theory **83**(3) (2016), 231-250.

[j10] Henning Fernau, Pinar Heggernes, Pim van 't Hof, Daniel Meister, and Reza Saei, *Computing the metric dimension for chain graphs*, Information Processing Letters **115**(9) (2015), 671 – 676.

[j9] Pinar Heggernes, Pim van 't Hof, Erik Jan van Leeuwen, and Reza Saei, *Finding Disjoint Paths in Split Graphs*, Theory of Computing Systems **57**(1) (2015), 140 – 159.

[j8] Rémy Belmonte, Pinar Heggernes, Pim van 't Hof, Arash Rafiey, and Reza Saei, *Graph classes and Ramsey numbers*, Discrete Applied Mathematics **173** (2014), 16 – 27.

[j7] Petr Golovach, Pinar Heggernes, Dieter Kratsch, and Reza Saei, *Subset feedback vertex sets in chordal graphs*, Journal of Discrete Algorithms **26** (2014), 7 – 15.

[j6] R. Saei, A. Khodkar, and S.M. Sheikholeslami, *Signed edge  $k$ -subdomination numbers in graphs*, Ars Combinatoria **109** (2013), 129 – 141.

[j5] A.N. Ghameshlou, R. Saei, and S.M. Sheikholeslami, *Minus edge  $k$ -subdomination numbers in graphs*, AKCE International Journal of Graphs and Combinatorics **8** (2011), 1 – 11.

[j4] A.N. Ghameshlou, R. Saei, S.M. Sheikholeslami, and L. Volkmann, *Signed  $(b,k)$ -matchings in graphs*, An. Șt. Univ. Ovidius Constanța **18** (2010), 127 – 138.

[j3] A.N. Ghameshlou, A. Khodkar, R. Saei, and S.M. Sheikholeslami, *Signed  $(b,k)$ -edge covers in graphs*, Intelligent Information Management **2** (2010), 143 – 148.

[j2] A.N. Ghameshlou, A. Khodkar, R. Saei, and S.M. Sheikholeslami, *Negative  $k$ -subdecision number of a graph*, AKCE International Journal of Graphs and Combinatorics **6** (2009), 361 – 371-

[j1] R. Saei, S.M. Sheikholeslami, *Signed star  $k$ -subdomination numbers in graphs*, Discrete Applied Mathematics **156** (2008), 3066 – 3070.

#### Publications/ Refereed Conference Publications

[c4] Manu Basavaraju, Pinar Heggernes, Pim van 't Hof, Reza Saei, and Yngve Villanger, *Maximal induced matchings in triangle-free graphs*, WG 2014, LNCS 8747: 93 – 104, Springer.

[c3] Pinar Heggernes, Pim van 't Hof, Erik Jan van Leeuwen, and Reza Saei, *Finding Disjoint Paths in Split Graphs*, SOFSEM 2014, LNCS 8327: 315 – 326, Springer.

[c2] Petr Golovach, Pinar Heggernes, Dieter Kratsch, and Reza Saei, *An exact algorithm for Subset Feedback Vertex Set on chordal graphs*, IPEC 2012, LNCS 7535: 85 – 96, Springer.

[c1] Rémy Belmonte, Pinar Heggernes, Pim van 't Hof, and Reza Saei, *Ramsey numbers for line graphs and perfect graphs*, COCOON 2012, (Best Paper Award), LNCS 7434: 204 – 215, Springer.

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#### Publications/ Non-Refereed Publications

[n1] Manu Basavaraju, Pinar Heggernes, Pim van 't Hof, Reza Saei, and Yngve Villanger, *Maximal induced matchings in triangle-free graph*, Arxiv: CoRR abs/1312.5180 (2013).

#### Publications/ Submitted Journal Papers

[s1] Henning Fernau, Pinar Heggernes, Daniel Meister, and Reza Saei, *Covering the edges of bipartite graphs by cycles of length 4*.

#### Publications/ Preprints

[p1] Manu Basavaraju, Erik Jan van Leeuwen, and Reza Saei, *Maximal induced matchings in Planar graphs*.

#### Research Visits

- November 2017; Department of computer engineering at Gebze Technical University, Istanbul, Turkey; hosted by Prof. Didem Gozuepek for one weeks.
- February 2014; Max Planck institute for informatics, Saarbrucken, Germany; hosted by Dr. Erik Jan van Leeuwen for two weeks.
- November 2013; Laboratoire d'Informatique Théorique et Appliquée (LITA) at the University of Lorraine, Metz, France; hosted by Prof. Dieter Kratsch for one week.
- May 2013; Theoretical Computer Science research group at the University of Trier, Germany; hosted by Prof. Henning Fernau for one week.

#### Teaching Experience

- 2017
  - Spring semester: Lecturer *Matematikk 1-7: Tallbegrepet, tallbehandling og algebra*, Nord University
  - Spring semester: Lecturer *Matematikk 2B, 5-10; Analyse, matematiske bevis*, Nord University
- 2016
  - Fall semester: Lecturer *Matematikk 2A, 5-10; Kvantitative og kvalitative metoder*, Nord University.
  - Fall semester: Lecturer *Matematikk 1-7: Tallbegrepet, tallbehandling og algebra*, Nord University
- 2014
  - Spring semester: teaching assistant for *Discrete structures*, University of Bergen.
  - Fall semester: teaching assistant for *Algorithms*, University of Bergen
- 2013
  - Spring semester: teaching assistant for *Complexity Theory*, University of Bergen
  - Fall semester: teaching assistant for *Algorithms*, University of Bergen
- 2012
  - Spring semester: teaching assistant for *Complexity Theory*, University of Bergen
  - Fall semester: teaching assistant for *Algorithms*, University of Bergen
- 2011
  - Fall semester: teaching assistant for *Algorithms*, University of Bergen

#### Teaching related ICT Experience

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Adobe Connect For net meeting and lecturing over internet.  
Camtasia For making video lectuere on PC  
Fuse For making video lecture using mobile devices

## Given Talks

15. *Graph classes and Ramsey numbers*, Invited Speaker: WGT-Workshop on Graph Theory and Its Applications-VII, Gebze Technical University, Istanbul, Turkey, November 10, 2017.
14. *Algorithmic and combinatorial problems on graph classes*, Presentation of Ph.D. thesis, University of Bergen, Norway, May 29, 2015.
13. *Graph spectra*, PhD trial lecture, Algorithms Research Group, University of Bergen, Norway, April 24, 2015.
12. *Maximal induced matchings in triangle-free graphs*, Max Planck Institute for Informatics, Saarbrucken, Germany, February 10, 2015.
11. *Reconfiguration Graphs and Problems*, Seminar on self-selected topics, Institute for Informatics, University of Bergen, Norway, September 5, 2014.
10. *Maximal induced matchings in triangle-free graphs*, 40th International Workshop on Graph-Theoretic Concepts in Computer Science (WG 2014), June 25 – 27, 2014; Domaine de Chalés, Orléans, France.
9. *Finding Disjoint Paths in Split Graphs*, Algorithms Seminar Series, Institute for Informatics, University of Bergen, Norway, February 7, 2014.
8. *Finding Disjoint Paths in Split Graphs*, 40th International Conference on Current Trends in Theory and Practice of Computer Science (SOFSEM 2014), January 25 – 30, 2014; High Tatras, Slovakia.
7. *Basics from linear algebra*, 11th Annual Winter School in Algorithms, Graph Theory and Combinatorics, February 20, 2013, Ustaoset, Norway.
6. *Ramsey numbers for line graphs and perfect graphs*, Algorithms Seminar Series, Institute for Informatics, University of Bergen, Norway, 16 November 2012.
5. *An exact algorithm for Subset Feedback Vertex Set on chordal graphs*, 7th International Symposium on Parameterized and Exact Computation (IPEC 2012), September 12 – 14, 2012; Ljubljana, Slovenia.
4. *Packing Cycles through Prescribed Vertices*, Spring School of Combinatorics, April 14 – 22, 2012; Borova Lada, Czeck Republic.
3. *Polynomial Algorithm for Recognizing Perfect Graphs*, 10th Annual Winter School in Algorithms, Graph Theory and Combinatorics, February 20 – 22, 2012; Finse, Norway.
2. *Some Topics on Domination*, Algorithms Seminar Series, Institute for Informatics, University of Bergen, Norway, June 17, 2011.
1. *Majority Domination Number in Graphs*, Presentation of M.Sc. thesis, Azarbijan Shahid Madani University, January 8, 2008.

## Academic Services

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### Organizing Tasks

- Fall 2013; organizer of the *Algorithms Seminar Series*, University of Bergen, Norway.
- Spring 2014; member of *ICT Research School Organizing Committee*, University of Bergen, Norway.

### Refereeing for Journals

- Utilitas Mathematica
- Discrete Applied Mathematics
- International Journal of Computer Mathematics
- The Australasian Journal of Combinatorics

### Refereeing for Conferences

- 18th Annual International Computing and Combinatorics Conference (COCOON 2012)
- 39th International Colloquium on Automata, Languages and Programming (ICALP 2012)
- European Conference on Combinatorics, Graph Theory and Applications (Eurocomb 2013)
- 9th International Symposium on Parameterized and Exact Computation (IPEC 2014)

### Language Skills

English	<i>Fluent</i>
Azerbaijani	<i>Fluent (Native)</i>
Persian	<i>Fluent</i>
Turkish	<i>Fluent</i>
Norwegian	<i>Basic skills (speaking/writing <math>A_2</math>, listening/reading <math>B_1</math>)</i>

### Attended Scientific Events

- *WGT-Workshop on Graph Theory and Its Applications-VII*, November 10 – 11, 2017; Istanbul, Turkey.
- *13th Annual Winter School in Algorithms, Graph Theory and Combinatorics*, February 16 – 18, 2015; Ustaoset, Norway.
- *40th International Workshop on Graph-Theoretic Concepts in Computer Science (WG 2014)*, June 25 – 27, 2014; Domaine de Chalés, near Orléans, France.
- *12th Annual Winter School in Algorithms, Graph Theory and Combinatorics*, March 19 – 21, 2014; Finse, Norway.
- *40th International Conference on Current Trends in Theory and Practice of Computer Science (SOFSEM 2014)*, January 25 – 30, 2014; High Tatras, Slovakia.
- *11th Nordic Combinatorial Conference (NORCOM 2013)*, June 17 – 19, 2013; Stockholm, Sweden.
- *11th Annual Winter School in Algorithms, Graph Theory and Combinatorics*, February 20 – 22, 2013; Ustaoset, Norway.
- *7th International Symposium on Parameterized and Exact Computation (IPEC 2012)*, September 12 – 14, 2012; Ljubljana, Slovenia.
- *Spring School of Combinatorics 2012*, April 14 – 22, 2012; Borova Lada, Czech Republic.

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- *10th Annual Winter School in Algorithms, Graph Theory and Combinatorics*, February 22 – 24, 2012; Finse, Norway.
- *Autumn School on Computational Creativity 2011*, November 7 – 11, 2011; Porvoo, Finland.
- *Treewidth Workshop 2011*, May 19 – 20, 2011; University of Bergen, Bergen, Norway.
- *38th Annual Iranian Mathematics Conference (AIMC38)*, September 3 – 6, 2007; Zanjan University, Zanjan, Iran.
- *37th Annual Iranian Mathematics Conference (AIMC37)*, September 2 – 5, 2006; Azarbijan University of Tarbiat Moallem, Tabriz, Iran.