

Mehdi KHOSRAVIAN GHADIKOLAEI

PERSONAL DATA

PLACE AND DATE OF BIRTH: Iran | 13 May 1985
ADDRESS: 58 rue de Garches, 92420, Vaucresson, France
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EMAIL: mehdi.khosravian-ghadikolaei@dauphine.fr
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PROFESSIONAL EXPERIENCES

Since March 2016 | **PhD Student in Computer Science (Computational Complexity)**
* Expected defence in May / June 2019
* Supervisors: Jérôme Monnot and Florian Sikora
* Extension of NP optimisation problems
LAMSADE - Université Paris Dauphine, Paris, France.

Mar 2012 - Feb 2016 | **Research Assistant and Instructor**
* Teaching some bachelor courses of Information Technology:

- Data Structure and Algorithm Design
- Languages and Automata
- Discrete Mathematics and Graph Algorithms

Department of Computer Science and Information Technology - IASBS, Zanjan, Iran.

EDUCATION

SEP 2008 - Jul 2011 | **M.Sc. of Computer Science**
* Supervisor: Manouchehr Zaker
* Modeling and algorithmic analysis of spread phenomena in social networks
Department of Computer Science and Information Technology - IASBS, Zanjan, Iran.

SEP 2004 - Jul 2008 | **B.Sc. of Computer Science**
Department of Mathematics - Vali e Asr University of Rafsanjan, Rafsanjan, Iran.

RESEARCH INTEREST

- Computational Complexity
- Algorithmic Graph Theory
- Algorithms Design
- Approximation Algorithms
- Parameterized Complexity
- Computational Geometry and Its Applications

PUBLICATIONS

JOURNALS

- How Bad is the Freedom to Flood-It?, R. Belmonte, M. K. Ghadikolaei, M. Kiyomi, M. Lampis, Y. Otach, Journal of Graph Algorithms and Applications, 2019.
- Complexity and Approximability of Extended Spanning Star Forest Problems in General and Complete Graphs, K. Khoshkhah, M. K. Ghadikolaei, J. Monnot, D. O. Theis, Journal of Theoretical Computer Science, 2019.
- Using Voronoi Diagrams to Solve a Hybrid Facility Location Problem with Attentive Facilities, A. Didandeh, B. S. Bigham, M. K. Ghadikolaei, F. B. Moghaddam, Journal of Information Sciences, 2013.

INTERNATIONAL CONFERENCES AND WORKSHOPS

- Extension and its price for the connected vertex cover problem, M. K. Ghadikolaei, N. Melissinos, J. Monnot, A. Pagourtzis, (under revision).
- On the Complexity of Solution Extension of Optimization Problems, K. Casel, H. Fernau, M. K. Ghadikolaei, J. Monnot, F. Sikora, (under revision).
- Extension of vertex cover and independent set in some classes of graphs and generalizations, K. Casel, H. Fernau, M. K. Ghadikolaei, J. Monnot, F. Sikora, CIAC 2019.
- Weighted Upper Edge Cover: Complexity and Approximability, K. Khoshkhah, M. K. Ghadikolaei, J. Monnot, F. Sikora, WALCOM 2019.
- How Bad is the Freedom to Flood-It?, R. Belmonte, M. K. Ghadikolaei, M. Kiyomi, M. Lampis, Y. Otach, 9th International Conference On Fun With Algorithms, FUN 2018.
- Extended Spanning Star Forest Problems, K. Khoshkhah, M. K. Ghadikolaei, J. Monnot, D. O. Theis, The 11th Annual International Conference on Combinatorial Optimization and Applications, COCOA 2017.
- One Round Voroni Game on Grid, R. Hosseini, M. K. Ghadikolaei, M. Davoodi, B. S. Bigham, 32th European Workshop on Computational Geometry, EuroCG 2016.
- A Reactive-Agent Based Approach for a Facility Location Problem Using Dynamic Additively Weighted Voronoi Diagram, A. Didandeh, M. K. Ghadikolaei, B. S. Bigham, 26th European Workshop on Computational Geometry, EuroCG 2010.

EXTERNAL REVIEWERS

- TCS Journal • ISCO 2018 • ICCG 2018

RESEARCH VISITS

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| Nov 2017 - Dec 2017 | | Kumamoto University, Japan
Laboratory of Yota Otachi (research project GRAPA) |
| May 2017 - Jul 2017 | | Tartu University, Estonia
Laboratory of Dirk Oliver Theis (Dora Plus program) |

ATTENDED CONFERENCES AND SCHOOLS

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| Jun 2018 | | International conference on FUN with algorithms
Maddalena islands, Italy. |
| Nov 2017 | | Journées Graphes et Algorithmes (JGA 2017)
University of Bordeaux, Bordeaux, France. |
| Mar 2014 | | 6-th Winter School on computational Geometry
Amirkabir University, Tehran, Iran. |
| Jul 2012 | | Summer School on Theoretical Computer Science
Institute for Research in Fundamental Sciences (IPM), Tehran, Iran. |

LANGUAGES

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| ENGLISH: | Good |
| PERSIAN: | Mother-tongue |
| FRENCH: | Basic Knowledge |
| ARABIC: | Basic Knowledge |

INTERESTS AND ACTIVITIES

- solving mathematical games, watching movies, reading books
- playing volleyball, mountain climbing