

CURRICULUM VITAE

Name František Kardoš

Present employment Maître de conférences (assistant professor)
LaBRI / University of Bordeaux
351, cours de la Libération
33405 Talence Cedex, France

E-mail fkardos@labri.fr

Born June 24, 1981 in Košice, Slovakia

Employment history

2011 – 2012: Post-doc at INRIA Sophia Antipolis Méditerranée, France

2006 – 2009
and 2010 – 2011: Assistant professor at Faculty of Science
P. J. Šafárik University, Košice, Slovakia

2009 – 2010: Post-doc at Institute for Theoretical Computer Science
Charles University, Prague, Czech Republic

Education

Nov 2007: PhD. in Discrete Mathematics, P. J. Šafárik University, Košice, Slovakia

June 2005: Ing. in Forestry, Technical University, Zvolen, Slovakia

June 2003: Mgr. in Mathematics, Comenius University, Bratislava, Slovakia

Honors/Awards

2010: Academician Stefan Schwarz Prize Winner
Slovak Mathematical Society

2006: Dean's Prize for excellent research of graduate students
Faculty of Science, P. J. Šafárik University, Košice, Slovakia

1998: Silver medal at International Mathematical Olympiad, Taiwan

Research interests

- Graph colorings (application of the probabilistic method)
- Structure of planar graphs (applications in coloring and in chemistry)

Invited conference lectures

1. Perfect matchings in cubic graphs, CSGraphs 2011, June 2011, Šachtičky, Slovakia.

Publications : book chapters

1. V. Andova, F. Kardoš, and R. Škrekovski, Fullerene Graphs and Some Relevant Graph Invariants, in: Topics in Chemical Graph Theory, ed. I. Gutman, Univ. Kragujevac 2014, 39–54.
2. S. Jendroľ and F. Kardoš, Symmetry of fulleroids, in: Handbook of Nanophysics, ed. K. D. Sattler, Taylor & Francis 2010, 28.1–28.13.

Publications : articles in peer-reviewed journals

1. F. Kardoš, D. Král, A. Liebenau, and L. Mach, First order convergence of matroids, *Eur. J. Combin.* (to appear).
2. V. Andova, F. Kardoš, and R. Škrekovski, Mathematical aspects of fullerenes, *Ars Math. Contemp.* 11 (2016) 353–379.
3. F. Kardoš, J. Pócs, J. Pócsová, On concept reduction based on some graph properties, *Knowledge-Based Systems* 93 (2016) 67–74.
4. V. Andova, D. Blenkuš, T. Došlić, F. Kardoš, and R. Škrekovski, On Diameter of Nanotubical Fullerene Graphs, *MATCH Commun. Math. Comput. Chem.* 73 (2015) 529–542.
5. V. Andova, F. Kardoš, and R. Škrekovski, Sandwiching saturation number of fullerene graphs, *MATCH Commun. Math. Comput. Chem.* 73 (2015) 501–518.
6. D. Hudák, F. Kardoš, B. Lužar, R. Soták, and R. Škrekovski, Acyclic edge coloring of planar graphs with Δ colors, *Discrete Appl. Math* 160 (2012) 1356–1368.
7. J. Czap, S. Jendroľ, F. Kardoš, and R. Soták, Facial parity edge coloring of plane pseudographs, *Discrete Math* 312 (2012) 2735–2740.
8. F. Kardoš, D. Král, and J. Volec, Maximum edge-cuts in cubic graphs with large girth and in random cubic graphs, *Random Structures & Algorithms* 41 (2012) 506–520.
9. L. Esperet, F. Kardoš, and D. Král, A superlinear bound on the number of perfect matchings in cubic bridgeless graphs, *Eur. J. Combin.* 33 (2012) 767–798.
10. L. Esperet, F. Kardoš, A. King, D. Král, and S. Norine, Exponentially many perfect matchings in cubic graphs, *Adv. Math.* 227 (2011) 1646–1664.
11. F. Kardoš, D. Král, and J. Volec, Fractional colorings of cubic graphs with large girth, *SIAM J. Discrete Math.* 25 (2011) 1454–1476.
12. J. Czap, S. Jendroľ, F. Kardoš, and J. Miškuf, Looseness of plane graphs, *Graphs and Combinatorics* 27 (2011) 73–85.
13. J. Czap, S. Jendroľ, F. Kardoš, Facial parity edge colouring, *Ars Math. Contemp.* 4 (2011) 255–269.
14. J. Czap, S. Jendroľ, F. Kardoš, On the strong parity chromatic number, *Discuss. Math. Graph Theory* 31 (2011) 587–600.
15. B. Brešar, J. Katrenič, F. Kardoš, and G. Semanišin, Minimum k -path vertex cover, *Discrete Appl. Math.* 159 (2011) 1189–1195.
16. J. Katrenič, F. Kardoš, and I. Schiermeyer, On computing the minimum 3-path vertex cover and dissociation number of graphs, *Theor. Comput. Sci.* 412 (2011) 7000–7017.
17. F. Kardoš, Fullerooids with dihedral symmetry, *Discrete Math.* 310 (2010), 652–661.
18. F. Kardoš, M. Krnc, B. Lužar, and R. Škrekovski, Cyclic 7-edge-cuts in fullerene graphs, *J. Math. Chem.* 47 (2010) 771–789.
19. F. Kardoš, D. Král, and J.-S. Sereni, The last fraction of a fractional conjecture, *SIAM J. on Discrete Math.* 24 (2010) 699–707.
20. F. Kardoš and J. Miškuf, Maximum vertex and face degree of oblique graphs, *Discrete Math.* 309 (2009), 4942–4948.
21. F. Kardoš, D. Král, J. Miškuf, and J.-S. Sereni, Fullerene graphs have exponentially many perfect matchings, *J. Math. Chem.* 46 (2009), 443–447.
22. R. Erman, F. Kardoš, and J. Miškuf, Long cycles in fullerene graphs, *J. Math. Chem.* 46 (2009), 1103–1111.
23. F. Kardoš and R. Škrekovski, Cyclic edge-cuts in fullerene graphs, *J. Math. Chem.* 44 (2008), 121–132.
24. S. Jendroľ and F. Kardoš, On octahedral fullerooids, *Discrete Appl. Math.* 155 (2007), 2181–2186.
25. F. Kardoš, Tetrahedral fullerooids, *J. Math. Chem.* 41 (2007) 101–111.