

**UNIVERZITA KOMENSKÉHO
FAKULTA MATEMATIKY, FYZIKY A INFORMATIKY**

Zoznam publikačnej činnosti

Doc. RNDr. Gabriel Semanišin, PhD.

ADC Vedecké práce v zahraničných karentovaných časopisoch

- ADC01 Borowiecki, Mieczyslaw (25%) - Ivančo, Jaroslav (25%) - Mihók, Peter (25%) - Semanišin, Gabriel [UKOEXFM] (25%): Sequences realizable by maximal k -degenerate graphs
In: Journal of Graph Theory. - Vol. 19, No. 1 (1995), s. 117-124
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[o1] 2012 Bickle, A.: Structural results on maximal k -degenerate graphs. In: *Discussiones Mathematicae - Graph Theory*, Vol. 32, No. 4, 2012, s. 659-676 - SCI ; SCOPUS
[o1] 2013 Hu, Y. - Cheng, G.: The Operations Invariant Properties on Graphs. In: *Proceedings of the 2013 the International Conference on Education Technology and Information System : Advances in Intelligent Systems Research*, Vol. 65. Paris :Atlantis Press, 2013, S. 1166-1170 - CPCII-SSH
[o1] 2014 Bickle, A.: Degree sequences of monocore graphs. In: *Discussiones Mathematicae Graph Theory*, Vol. 34, No. 3, 2014, s. 585-592 - SCI ; SCOPUS
- ADC02 Mihók, Peter (34%) - Semanišin, Gabriel [UKOEXFM] (33%) - Vasky, Roman (33%): Additive and hereditary properties of graphs are uniquely factorizable into irreducible factors
In: Journal of Graph Theory. - Vol. 33, No. 1 (2000), s. 44-53
Ohlasy (7):
[o1] 2002 Berger, A. J.: Minimal reducible bounds in the lattice of additive hereditary graph properties. In: *Discrete Mathematics*, Vol. 251, No. 1-3, 2002, s. 3-10 - SCI ; SCOPUS
[o1] 2004 Alekseev, V. E. - Farrugia, A. - Lozin, V. V.: New results on generalized graph coloring. In: *Discrete Mathematics and Theoretical Computer Science*, Vol. 6, No. 2, 2004, s. 215-222 - SCI ; SCOPUS
[o1] 2004 Farrugia, A.: Vertex-partitioning into fixed additive induced-hereditary properties is NP-hard. In: *Electronic Journal of Combinatorics*, Vol. 11, No. 1, 2004, Art. No. R46 - SCI ; SCOPUS
[o1] 2009 Drgas-Burchardt, E.: On uniqueness of a general factorization of graph properties. In: *Journal of Graph Theory*, Vol. 62, No. 1, 2009, s. 48-64 - SCI ; SCOPUS
[o1] 2012 Broere, I. - Drgas-Burchardt, E.: Unique factorization of compositive hereditary graph properties. In: *Acta Mathematica Sinica, English Series*, Vol. 28, No. 2, 2012, s. 267-280 - SCI ; SCOPUS
[o1] 2012 Dorfling, M. J.: Some results on decomposable and reducible graph properties. In: *Discrete Mathematics*, Vol. 312, No. 16, 2012, s. 2491-2497 - SCI ; SCOPUS
[o1] 2013 Broere, I. - Dorfling, M. J.: The property of k -colourable graphs is uniquely decomposable. In: *Discrete Mathematics*, Vol. 313, No. 19, 2013, s. 1961-1964 - SCI ; SCOPUS
- ADC03 Farrugia, Alastair (25%) - Mihók, Peter (25%) - Richter, R. Bruce (25%) - Semanišin, Gabriel [UKOEXFM] (25%): Factorizations and characterizations of induced-hereditary and compositive properties
Erratum. In: *Journal of Graph Theory*. - Vol. 50, No. 3 (2005), s. 261
In: *Journal of Graph Theory*. - Vol. 49, No. 1 (2005), s. 11-27
Ohlasy (3):
[o1] 2011 Cerioli, M. R. - Nobrega, H. - Viana, P.: On characterizations by nice forbidding sets. In: *Electronic Notes in Discrete Mathematics*, Vol. 38, 2011, s. 233-238 - SCOPUS
[o1] 2012 Broere, I. - Drgas-Burchardt, E.: Unique factorization of compositive hereditary graph properties. In: *Acta Mathematica Sinica, English Series*, Vol. 28, No. 2, 2012, s. 267-280 - SCOPUS
[o1] 2014 Dukes, P. - Lowdon, S. - MacGillivray, G.: Complexity of conditional colouring with given template. In: *Discrete Mathematics and Theoretical Computer Science*, Vol. 16, No. 3, 2014, s. 61-76 - SCI ; SCOPUS

- ADC04 Katrenič, Ján (50%) - Semaniščin, Gabriel [UKOEXFM] (50%): Finding monotone paths in edge-ordered graphs
 In: Discrete Applied Mathematics. - Vol. 158, No. 15 (2010), s. 1624-1632
Ohlasy (7):
 [o1] 2011 Gaol, F. L.: Disjoint sets in graphs and its application to electrical networks. In: Journal of Mathematics and Statistics, Vol. 7, No. 1, 2011, s. 73-77 - SCOPUS
 [o1] 2013 Mynhardt, C. M. - Schurch, M.: A class of graphs with depression three. In: Discrete Mathematics, Vol. 313, No. 11, 2013, s. 1224-1232 - SCI ; SCOPUS
 [o1] 2013 Schurch, M.: Edge Colourings and the depression of a graph. In: Journal of Combinatorial Mathematics and Combinatorial Computing, Vol. 85, 2013, s. 195-212 - SCOPUS
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 [o1] 2017 Milans, K. G.: Monotone paths in dense edge-ordered graphs. In: Journal of Combinatorics, Vol. 8, No. 3, 2017, s. 423-437 - SCI
- ADC05 Brešar, Boštjan (25%) - Kardoš, František (25%) - Katrenič, Ján (25%) - Semaniščin, Gabriel [UKOEXFM] (25%): Minimum k-path vertex cover
 In: Discrete Applied Mathematics. - Vol. 159, No. 12 (2011), s. 1189-1195
Ohlasy (46):
 [o1] 2011 Tu, J. - Zhou, W.: A factor 2 approximation algorithm for the vertex cover P 3 problem. In: Information Processing Letters, Vol. 111, No. 14, 2011, s. 683-686 - SCOPUS
 [o1] 2011 Tu, J. - Zhou, W.: A primal-dual approximation algorithm for the vertex cover P 3 problem. In: Theoretical Computer Science, Vol. 412, No. 50, 2011, s. 7044-7048 - SCOPUS
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 [o1] 2013 Jakovac, M. - Taranenkov, A.: On the k-path vertex cover of some graph products. In: Discrete Mathematics, Vol. 313, No. 1, 2013, s. 94-100 - SCI ; SCOPUS
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- [o1] 2016 Tu, J. - Jin, Z.: An FPT algorithm for the vertex cover P-4 problem. In: Discrete Applied Mathematics, Vol. 200, 2016, s. 186-190 - SCI ; SCOPUS
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- [o1] 2017 Lee, E.: Partitioning a graph into small pieces with applications to path transversal. In: Proceedings of the Annual ACM-SIAM Symposium on Discrete Algorithms, 2017, S. 1546-1558 - SCOPUS
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- [o1] 2017 Zhang, Z. - Li, X. - Shi, Y. - Nie, H. - Zhu, Y.: PTAS for minimum k-path vertex cover in ball graph. In: Information Processing Letters, Vol. 119, 2017, s. 9-13 - SCI ; SCOPUS

ADC06 Brešar, Boštjan (20%) - Jakovac, Marko (20%) - Katrenič, Ján (20%) - Semanišin, Gabriel [UKOEXFM] (20%) - Taranenko, Andrej (20%): On the vertex k-path cover

In: Discrete Applied Mathematics. - Vol. 161, No. 13-14 (2013), s. 1943-1949
Ohlasy (15):

- [o1] 2013 Tu, J. - Yang, F.: The vertex cover P3 problem in cubic graphs. In: Information Processing Letters, Vol. 113, No. 13, 2013, s. 481-485 - SCI ; SCOPUS
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- [o1] 2016 Chang, M. - Chen, L. - Hung, L. - Rossmann, P. - Su, P.: Fixed-parameter algorithms for vertex cover P-3. In: Discrete Optimization, Vol. 19, 2016, s. 12-22 - SCOPUS
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- [o1] 2017 Lee, E.: Partitioning a graph into small pieces with applications to path transversal. In: Proceedings of the Annual ACM-SIAM Symposium on Discrete Algorithms, 2017, S. 1546-1558 - SCOPUS
- [o1] 2017 Tu, J. - Wu, L. - Yuan, J. - Cui, L.: On the vertex cover P-3 problem parameterized by treewidth. In: Journal of Combinatorial Optimization, Vol. 34, No. 2, 2017, s. 414-425 - SCI ; SCOPUS
- [o1] 2017 Xiao, M. - Kou, S.: Exact algorithms for the maximum dissociation set and minimum 3-path vertex cover problems. In: Theoretical Computer Science, Vol. 657, 2017, s. 86-97 - SCI ; SCOPUS
- [o1] 2017 Zhang, Z. - Li, X. - Shi, Y. - Nie, H. - Zhu, Y.: PTAS for minimum k-path vertex cover in ball graph. In: Information Processing Letters, Vol. 119, 2017, s. 9-13 - SCI ; SCOPUS

ADC07 Katrenič, Ján (50%) - Semanišin, Gabriel [UKOEXFM] (50%): Maximum semi-matching problem in bipartite graphs

In: *Discussiones Mathematicae : Graph Theory*. - Vol. 33, No. 3 (2013), s. 559-569

Ohlasy (2):

- [o1] 2015 Halldorsson, M. - Patt-Shamir, B. - Kohler, S. - Rawitz, D.: Distributed backup placement in networks. In: Annual ACM Symposium on Parallelism in Algorithms and Architectures. New York : ACM, 2015, S. 274-283 - SCOPUS
- [o1] 2016 Tsiropoulos, G. - Zeng, M. - Dobre, O. - Ahmed, M.: A load-balancing semi-matching approach for resource allocation in cognitive radio networks. In: 2016 IEEE International Conference on Communications. New York : IEEE, 2016, nestr.- CPCI-S ; SCOPUS

ADC08 Brešar, Boštjan (25%) - Krivoš-Belluš, Rastislav (25%) - Semanišin, Gabriel [UKOEXFM] (25%) - Šparl, Petra (25%): On the weighted k-path vertex cover problem

Lit. 14 zázn.

In: *Discrete Applied Mathematics*. - Vol. 177 (2014), s. 14-18

Ohlasy (8):

- [o1] 2015 Ries, B. - Schamberg, B. - Unger, W.: The k-observer problem on d-regular graphs. In: Lecture Notes in Computer Science, Vol. 9212, 2015, s. 81-93 - SCOPUS
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- [o1] 2016 Li, X. - Zhang, Z. - Huang, X.: Approximation algorithms for minimum (weight) connected k-path vertex cover. In: *Discrete Applied Mathematics*, Vol. 205, 2016, s. 101-108 - SCI ; SCOPUS
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- [o1] 2017 Zhang, Z. - Li, X. - Shi, Y. - Nie, H. - Zhu, Y.: PTAS for minimum k-path vertex cover in ball graph. In: *Information Processing Letters*, Vol. 119, 2017, s. 9-13 - SCI ; SCOPUS

ADC09 Dettlaff, Magda (25%) - Lemańska, Magdalena (25%) - Semanišin, Gabriel [UKOEXFM] (25%) - Zuazua, Rita (25%): Some variations of perfect graphs

Lit. 9 zázn.

In: *Discussiones Mathematicae : Graph Theory*. - Vol. 36, No. 3 (2016), s. 661-668

ADC10 Broere, Izak (50%) - Semanišin, Gabriel [UKOEXFM] (50%): Some bounds on the generalised total chromatic number of degenerate graphs

Lit. 10 zázn., 1 obr.

In: *Information Processing Letters*. - Vol. 122 (2017), s. 30-33

ADC11 Galčík, František (33%) - Katrenič, Ján (33%) - Semanišin, Gabriel [UKOEXFM] (34%): On computing an optimal semi-matching

Lit. 13 zázn., 5 obr.

In: *Algorithmica*. - Vol. 78, No. 3 (2017), s. 896-913

ADE Vedecké práce v ostatných zahraničných časopisoch

- ADE01 Mihók, Peter (50%) - Semanišin, Gabriel [UKOEXFM] (50%): Reducible properties of graphs
In: *Discussiones Mathematicae : Graph Theory*. - Vol. 15, No. 1 (1995), s. 11-18
Ohlasy (2):
[o1] 2000 Borowiecki, M. - Hałuszczak, M. - Skowronska, M.: Minimal reducible bounds for 1-nonouterplanar graphs. In: *Discrete Mathematics*, Vol. 219, No. 1-3, 2000, s. 9-15 - SCI ; SCOPUS
[o1] 2012 Dorfling, M. J.: Some results on decomposable and reducible graph properties. In: *Discrete Mathematics*, Vol. 312, No. 16, 2012, s. 2491-2497 - SCI ; SCOPUS
- ADE02 Borowiecki, Mieczyslaw (20%) - Broere, Izak (20%) - Frick, Marietjie (20%) - Mihók, Peter (20%) - Semanišin, Gabriel [UKOEXFM] (20%): A survey of hereditary properties of graphs
In: *Discussiones Mathematicae : Graph Theory*. - Vol. 17, No. 1 (1997), s. 5-50
Ohlasy (28):
[o1] 2002 Berger, A. J.: Minimal reducible bounds in the lattice of additive hereditary graph properties. In: *Discrete Mathematics*, Vol. 251, No. 1-3, 2002, s. 3-10 - SCI ; SCOPUS
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[o1] 2004 De Werra, D. - Demange, M. - Monnot, J. - Paschos, V. Th.: The hypocolouring problem: Complexity and approximability results when the chromatic number is small. In: *Graph - Theoretic Concepts in Computer Science : Lecture Notes in Computer Science*, Vol. 3353. Berlin : Springer, 2004, S. 377-388 - SCI ; SCOPUS
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[o1] 2009 Drgas-Burchardt, E.: Cardinality of a minimal forbidden graph family for reducible additive hereditary graph properties. In: *Discussiones Mathematicae - Graph Theory*, Vol. 29, No. 2, 2009, s. 263-274 - SCOPUS
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[o1] 2009 Kong, J. - Wu, Y.: On economical set representations of graphs. In: *Discrete Mathematics and Theoretical Computer Science*, Vol. 11, No. 2, 2009, s. 71-95 - SCI ; SCOPUS
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ADE07 Semanišin, Gabriel [UKOEXFM] (100%) : On generating sets of induced-hereditary properties

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ADE08 Semanišin, Gabriel [UKOEXFM] (50%) – Soták, Roman (50%): A note on on-line ranking number of graphs
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ADF Vedecké práce v ostatných domácich časopisoch

ADF01 Filáková, Z. (34%) - Mihók, Peter (33%) - Semanišin, Gabriel [UKOEXFM] (33%): A note on maximal k-degenerate graphs
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Lit. 12 zázn.
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ADF03 Mihók, Peter (50%) - Semanišin, Gabriel [UKOEXFM] (50%): A note on the chromatic number of reducible hereditary properties graphs
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AFC Publikované príspevky na zahraničných vedeckých konferenciách

- AFC01 Galčík, František (50%) - Semanišin, Gabriel [UKOEXFM] (50%): Maximum finding in the symmetric radio networks with collision detection
In: SOFSEM 2007: Theory and practice of computer science. - Berlin : Springer, 2007. - S. 284-294. - ISBN 978-3-540-69506-6
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- AFC02 Katrenič, Peter (50%) - Semanišin, Gabriel [UKOEXFM] (50%): On a tree-partition problem
In: Electronic Notes in Discrete Mathematics [elektronický zdroj]. - Vol. 28 (2007), s. 325-330 [online]
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AFD Publikované príspevky na domácich vedeckých konferenciách

AFD01 Semanišin, Gabriel [UKOEXFM] (50%) - Studenovský, Jozef (50%): Interpreter jazyka LOGOS

Lit. Lit. 2 zázň., 7 obr.

In: Knižnica algoritmov - 11. diel: zo sympózia Algoritmy '91. - Bratislava : JSMF pri SAV, 1991. - S. 156-165

[ALGORITMY 1991 : Sympóziu o algoritmoch. 11., Štrbské Pleso, 15.-19.4.1991]

AFD02 Marcinčák, Peter (34%) - Matula, Marcel (33%) - Semanišin, Gabriel [UKOEXFM] (33%): Detekcia "podobných" záznamov v databázových systémoch

Lit. 4 zázň.

In: UNINFOS '99. - Bratislava : MFF UK, 1999. - S. 85-90

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AFD03 Semanišin, Gabriel [UKOEXFM] (100%) : Minimal reducible bounds for induced-hereditary properties

In: Discrete Mathematics. - Vol. 286, No. 1-2 (2004), s. 163-170

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Ohlasy (1):

[o1] 2011 Borowiecki, M.: Partitions of Graphs. In: Structural Analysis of Complex Networks. Berlin : Springer, 2011, S. 27-47 - BKCI-S ; SCOPUS

AFD04 Galčík, František (50%) - Semanišin, Gabriel [UKOEXFM] (50%): Centralized broadcasting in radio networks with k-degenerate reachability graphs

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In: Discrete Mathematics. - Vol. 307, No. 7-8 (2007), s. 839-853

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AFD06 Forys, Wit (34%) - Semanišin, Gabriel [UKOEXFM] (33%) - Forys, Magdalena (33%): Trace shifts - minimal case for independence relations given by five node co-graphs

In: ITAT 2013 : Information Technologies Applications and Theory : Proceedings [elektronický zdroj]. -

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AFD07 Mihók, Peter (50%) - Semanišin, Gabriel [UKOEXFM] (50%): On invariants of hereditary graph properties

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BCI Skriptá a učebné texty

BCI01 Cechlárová, Katarína (60%) - Semanišin, Gabriel [UKOEXFM] (40%): Lineárna optimalizácia. - 1. vyd. -

Košice : Univerzita P. J. Šafárika, 1999. - 97 s.
Lit. 7 záz.

BEC Odborné práce v zahraničných recenzovaných zborníkoch (konferenčných aj nekonferenčných)

BEC01 Daňková, Viera (13%) - Hámorský, Peter (13%) - Kvokačka, Peter (13%) - Naď, Peter (12%) - Nemček, Martin (12%) - Vaskyová, Želmíra (12%) - Semanišin, Gabriel [UKOEXFM] (13%) - Soták, Roman (12%): Akademický informačný systém Prírodovedeckej fakulty UPJŠ
Lit. 5 záz.
In: DATAKON 2001 : proceedings of the Annual Database Conference. - Bratislava : Slovenská technická univerzita, 2001. - S. 355-358. - ISBN 80-227-1597-2
[DATAKON 2001 : Conference. Brno, 20.-23.10.2001]

BEC02 Semanišin, Gabriel [UKOEXFM] (25%) - Bucko, Jozef (25%) - Mihók, Peter (25%) - Šiškovičová, Danka (25%): Academic Information System - a powerful tool for a improvement of management of a university
Lit. 12 záz.
In: EUNIS 2004 : IT Innovation in a Changing World : proceedings oh the 10th International Conference of European University Information Systems. - Ljubljana : University of Ljubljana, 2004. - S. 466-470. - ISBN 961-6209-46-9
[EUNIS 2004 : International Conference. 10th, Bled, 29.6.-2.7.2004]
Ohlasy (1):
[o1] 2006 Lackova, D. - Reveszova, L.: Using eLearning methods in teaching mathematics. In: MIPRO 2006. Rijeka : MIPRO, 2006, [nestr.] - SCOPUS

BED Odborné práce v domácich recenzovaných zborníkoch (konferenčných aj nekonferenčných)

BED01 Nemček, Martin (50%) - Semanišin, Gabriel [UKOEXFM] (50%): Akademický informačný systém PF UPJŠ
Lit. 10 záz.
In: Systémová integrácia 2003 : zborník prednášok na medzinárodnú konferenciu. - Žilina : Žilinská univerzita, 2003. - S. 111-119. - ISBN 80-8070-141-5
[Systémová integrácia 2003 : medzinárodná konferencia. Demänovská dolina, 22.-24.10.2003]

DAI Dizertačné a habilitačné práce

DAI01 Semanišin, Gabriel [UKOEXFM] (100%) : Graphs maximal with respect to their characteristics. - Košice : [s.n.], 1997. - 82 s.
Doktorandská dizertačná práca (PhD.) - Univerzita P. J. Šafárika, Košice, 1997
Ohlasy (1):
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DAI02 Semanišin, Gabriel [UKOEXFM] (100%) : Dedičné vlastnosti grafov. - Košice : [s.n.], 2003. - 71 s.
Habilitačná práca (Docent; Doc.) - Univerzita P. J. Šafárika, Košice, 2003

Štatistika kategórií (Záznamov spolu: 42):

- ADC Vedecké práce v zahraničných karentovaných časopisoch (11)
- ADE Vedecké práce v ostatných zahraničných časopisoch (11)
- ADF Vedecké práce v ostatných domácich časopisoch (3)
- AFC Publikované príspevky na zahraničných vedeckých konferenciách (4)
- AFD Publikované príspevky na domácich vedeckých konferenciách (7)
- BCI Skriptá a učebné texty (1)
- BEC Odborné práce v zahraničných recenzovaných zborníkoch (konferenčných aj nekonferenčných) (2)
- BED Odborné práce v domácich recenzovaných zborníkoch (konferenčných aj nekonferenčných) (1)
- DAI Dizertačné a habilitačné práce (2)

Štatistika ohlasov (149):

- [o1] Citácie v zahraničných publikáciách registrované v citačných indexoch (149)

23. 8. 2017