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Habilitation thesis title: Connections of certain inequalities related to convex functions and to inner product spaces

Domain: Mathematics

PUBLICATIONS LIST

RELEVANT PAPERS

1. **Minculete, N.**, Păltănea, R., *Improved estimates for the triangle inequality*, J. Inequal. Appl. 2017:**17**, 2017. DOI: 10.1186/s13660-016-1281-z
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8. **Minculete, N.**, *On certain inequalities about arithmetic functions which use the exponential divisors*, Int. J. Number Theory, **8**, Issue 6, 2012, 1527-1535.
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10. Pozna, C., **Minculete, N.**, Precup, E., Kóczy, L., Ballagi, L., *Signatures: Definitions, operators and applications to fuzzy modelling*, Fuzzy Set and Systems, **201**(2012), 86-104.
<https://doi.org/10.1016/j.fss.2011.12.016>
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11. **Minculete, N.**, Pozna, C., Precup, E., *A refinement of Sandor-Toth's inequality*, J. Inequal. Appl. 2012:**4**, 2012.
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PhD THESIS

Contributions to the study of the analytical properties of arithmetic functions - Use of e-divisors (www.imar.ro/~purice/Inst/2012/Minculete-Dr.pdf.)
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PATENTS

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BOOKS / BOOK CHAPTERS

1. **Minculete, N.**, *Egalități și inegalități geometrice în triunghi*, Editura Eurocarpatica, Sfântu Gheorghe, 2003, ISBN 973-85929-2-5 (170 p.).
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7. Petriceanu, D., Petriceanu, A.-M., Radu, E., Bunget, M., **Minculete, N.**, *Matematică: Bacalaureat 2014*, Editura Corint, București, 2013.
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9. Stoica, E., **Minculete, N.**, *Algebră liniară; Geometrie analitică*, Editura Fair Partners, București, 2016, ISBN 978-606-718-012-1 (218 p.).

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1. Stoica, E., **Minculete, N.**, Barbu, C., *New aspects of Ionescu–Weitzenbock's inequality*, Balkan Journal of Geometry and Its Applications, Vol. 21, No. 2, 2016, 95-101.
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8. Băținețu-Giurgiu, D., **Minculete, N.**, Stanciu, N., Some geometric inequalities of Ionescu-Weitzenbock's inequality, *International Journal of Geometry*, Vol. **2** (2013), No. 1.
9. Bencze, M., **Minculete, N.**, Pop, O. T., Certain inequalities for the triangle, *Gaz. Mat. Ser. A.*, **3-4** (2012), 86-93.
10. **Minculete, N.**, *Divisors of order k* , An. Univ. Craiova Ser. Mat. Inform., Vol. **39** (2), 2012, 257-265.
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17. **Minculete, N.**, Tóth, L., *Exponential unitary divisors*, Ann. Univ. Sci. Budapest. Sect. Comput. **35** (2011), 205-216.
18. **Minculete, N.**, *Concerning some arithmetic functions which use exponential divisors*, Acta Univ. Apulensis Math. Inform **28** (2011), 125-133.
19. Bencze, M., **Minculete, N.**, Pop, O., *Inequalities between the sides and angles of an acute triangle*, Sci. Magna, Vol. **7** (2011), No. 1, 74-78.
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21. **Minculete, N.**, *Some inequalities about certain arithmetical functions which use e -divisors and the e -unitary divisors*, Gaz. Mat. Ser. A., **1-2** (2011), 8-15.
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31. Bencze, M., **Minculete, N.**, Pop, O., *Certain aspects of some geometric inequalities*, Creat. Math. Inform. **19** (2010), No. 2, 122-129.
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41. **Minculete, N.**, *Characterization of Tangential Quadrilateral*, Forum Geometricorum, Vol. 9 (2009) 113-118.
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44. Manea, A., **Minculete, N.**, Types of integer harmonic numbers (II), *Bulletin of the Transilvania University of Brasov, Series III: Mathematics, Informatics, Physics*, Vol. **9**(58), No. 1, 2016, 67-82.
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1. Pozna, C., Koczy, L., Precup, R-E., **Minculete, N.**, Ballagi, A., *A cooperation scenario for multiagent systems*, Proceedings of IEEE Region 8 Conference AFRICON 2011, Livingstone, Zambia.
2. Pozna, C., Koczy, L., Precup, R-E., **Minculete, N.**, Ballagi, A., *Cooperation of agents in fuzzy environments*, Proceedings of World Conference on Soft Computing WconSC 2011, San Francisco, CA, USA.
3. Pozna, C.; Precup, R.-E.; **Minculete, N.**; Antonya, C., Dragos, C.-A, *Properties of Classes, Subclasses and Objects in an Abstraction Model*, 19th International Workshop on Robotics in Aple-Danube Region-RAAD 2010, june 23-25, 2010, Budapest, Hungary, ISBN 978-1-4244-6884-3.
4. Pozna, C.; Precup, R.-E.; **Minculete, N.**; Antonya, C., *Cognition Aspects Concerning an Abstraction Model*, Proceedings of the 10th IASTED International Conference Artificial Intelligence and Applications, 15-17 February 2010, Innsbruck, ISBN 978-0-88986-817-5
5. Pozna, C.; Precup, R.-E.; **Minculete, N.**; Antonya, C., *Characteristic of a New Abstraction Model*, 4th International Symposium on Computational Intelligence and Intelligent Informatics, 21-25 October 2009, Egypt, ISBN 978-1-4244-5382-5.
6. **Minculete, N.**, Dicu, P., Rațiu, A., *Two reverse inequalities of Bullen's inequality*, *General Mathematics*, Vol. 22, No. 1, 2014, presented at the conference RoGer, 29 May-1 June 2014, Sibiu, România.
7. **Minculete, N.**, *Several Bounds for some statistical indicators*, Proceedings of 14-th Conference on Applied Mathematics APLIMAT, Paper 56, 8 pp., 3-5 February 2015, Bratislava, ISBN 978-80-227-4143-3 Institute of Mathematics and Physics, Faculty of Mechanical Engineering, Slovak University of Technology in Bratislava.

OTHER PAPERS / RELEVANT ACHIEVEMENTS

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Date 25.06.2017

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