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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., Savin, D., *Some generalizations of the functions τ and $\tau^{(e)}$ in algebraic number fields*, Expositiones Mathematicae, 2021.
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12. **Minculete, N.**, Savin, D., *Some Properties of Extended Euler's Function and Extended Dedekind's Function*, Mathematics, 2020, **8**(8), 1222;
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13. **Minculete, N.**, Moradi, H. R., *Some Improvements of the Cauchy-Schwarz Inequality Using the Tapia Semi-Inner-Product*, Mathematics, 2020, **8**(12), 2112;
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14. Mitroi-Symeonidis, F. C., Anghel, I., **Minculete, N.**, *Parametric Jensen-Shannon Statistical Complexity and Its Applications on Full-Scale Compartment Fire Data*, *Symmetry* **12**(1), 22 (2020), <https://doi.org/10.3390/sym12010022>
15. **Minculete, N.**, *Some refinements of Ostrowski's inequality and an extension to a 2-inner product space*, *Symmetry* **11**(5), article 707 (2019), <https://doi.org/10.3390/sym11050707>
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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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2. Furuichi, S., **Minculete, N.**, *Inequalities for Relative Operator Entropies and Operator Means*, Acta Math Vietnam (2018) 43:607–618 <https://doi.org/10.1007/s40306-018-0250-7>
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46. Manea, A., **Minculete, N.**, Types of integer harmonic numbers (I), *Bulletin of the Transilvania University of Brasov, Series III: Mathematics, Informatics, Physics*, Vol. **8**(57), No. 2, 2015, 79-88.
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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 International 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.

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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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