

# Lista lucrărilor

## Articole publicate

1. R. M. Tache, General Sum-Connectivity Index with  $\alpha \geq 1$  for Bicyclic Graphs, MATCH Commun. Math. Comput. Chem 72, 761-774, 2014 - **jurnal ISI, categorie B, factor de impact: 3.858**;
2. R. M. Tache, On Degree-Based Topological Indices for Bicyclic Graphs, MATCH Commun. Math. Comput. Chem 76, 99-116, 2016 - **jurnal ISI, categorie B, factor de impact: 3.858**;
3. R. M. Tache, I. Tomescu, General Sum-Connectivity Index with  $\alpha \geq 1$  for Trees and Unicyclic Graphs with  $k$  Pendants, IEEE International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), 2015 - **conferință clasificată ISI, categorie C** (conform CORE2013);
4. R. M. Tache, Minimum General Sum-Connectivity Index of Bicyclic Graphs for  $\alpha \geq 1$ , Proceedings of the workshop Theory Day in Computer Science (DACS 2014), Analele Universității București - workshop asociat conferinței International Colloquium on Theoretical Aspects of Computing (ICTAC), 2014 - **conferință clasificată ISI, categorie B** (clasificare articol: **categorie C**);
5. R. M. Tache, Minimal Graphs with  $k$  Pendants for the Narumi-Katayama Index, Proceedings of the workshop Days of Computer Science, Analele Universității București - workshop asociat conferinței Envolving Computability (CiE), 2015 - **conferință clasificată ISI, categorie C** (clasificare articol: **categorie D**).

## Lucrări prezentate în conferințe

1. R.M. Tache, Extremal graphs with respect to some topological indices, Conferința Diaspora în Cercetarea Științifică și Învățământul Superior din România, Timișoara, 2016;
2. R.M. Tache, On general sum-connectivity index with  $\alpha \geq 1$  for cacti graphs, International Conference on Theory and Applications in Mathematics and Informatics (ICTAMI), Alba-Iulia, 2015;
3. R.M. Tache, Extremal cacti graphs for general sum-connectivity index and Narumi-Katayama index, The Eight Congress of Romanian Mathematicians, Iași, 2015;
4. R.M. Tache, General sum-connectivity index for bicyclic graphs, International Conference on Mathematics and Computer Science (MACOS), Brașov, 2014;
5. R.M. Popescu, E. Vlad, Moduri de criptare bloc și funcții hash, Școala de vară de Criptografie și Criptologie, Vatra Dornei, 2006.

## În lucru

1. R.M. Tache, Extremal graphs with fixed number of pendants for general sum-connectivity index.

## Cărți (pentru învățământul preuniversitar)

1. R. M. Popescu, Lecții complementare de teoria grafurilor, Editura Sfântul Ierarh Nicolae, ISBN 978-606-577-028-7, 2010
2. R. M. Popescu, Algoritmi genetici, Editura Sfântul Ierarh Nicolae, ISBN 978-606-577-027-0, 2010

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1. R.M. Tache, General Sum-Connectivity Index with  $\alpha \geq 1$  for Bicyclic Graphs, MATCH Commun. Math. Comput. Chem 72, 761-774, 2014 - **12 citări**:
  - Q. Cui, L. Zhong, On the general sum-connectivity index of trees with given number of pendent vertices, Discrete Applied Mathematics, Elsevier, 2017 - **categorie B**;
  - M.F. Nadeem, S. Zafar, Z. Zahid, On topological properties of the line graphs of subdivision graphs of certain nanostructures, Applied Mathematics and Computation, Elsevier, 2016 - **categorie B**;
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- I. Tomescu, Extremal results concerning the general sum-connectivity index in some classes of connected graphs, ROMAI J., pp 4551, 2014 - **categorie D**;
  - N. Akhter, I. Tomescu, Bicyclic graphs with minimum general sum-connectivity index for  $-1 \leq a < 0$ , Proceedings of the Romanian Academy, Series A, pp. 484 – 489, 2015;
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