

LISTA DE LUCRĂRI

Dr. Ercsey-Ravasz Maria-Magdolna

a) Lista celor 10 cele mai relevante lucrări

* reprezintă autor principal

1. B Molnár, F. Molnar, M Varga, Z Toroczkai, M Ercsey-Ravasz*, „A high-performance analog max-SAT solver”, *Nature Communications*, vol. 9, 4864, pp. 1-12, 2018, IF: 12.353, Citări: 1.
2. N.T. Markov, M. Ercsey-Ravasz, D.C. Van Essen, K. Knoblauch, Z. Toroczkai, H. Kennedy, "Cortical High-density Counterstream Architectures", *Science*, vol. 342, pp. 1238406:1-15, 2013. IF: 31.477, Citări: 163
3. M. Ercsey-Ravasz*, Z. Toroczkai, „Optimization hardness as transient chaos in an analog approach to constraint satisfaction.”, *Nature Physics* , vol. 7, pp. 966-971, 2011. IF: 20.603, Citări: 34
4. M. Ercsey-Ravasz*, N.T. Markov, C. Lamy, D.C. Van Essen, K. Knoblauch, Z. Toroczkai, H. Kennedy, “A predictive network model of cerebral cortical connectivity based on a distance rule.”, *Neuron* vol. 80, pp. 184-197, 2013. IF: 15.982, Citări: 110
5. Răzvan Gămănuț, Henry Kennedy, Zoltán Toroczkai, Mária Ercsey-Ravasz, David C Van Essen, Kenneth Knoblauch, Andreas Burkhalter, The Mouse Cortical Connectome, Characterized by an Ultra-Dense Cortical Graph, Maintains Specificity by Distinct Connectivity Profiles, *Neuron* 97, 698-715. e10 , 2018. IF: 14.319 , Citări: 17
6. M. Ercsey-Ravasz*, Z. Toroczkai, „Centrality scaling in large networks”, *Physical Review Letters*, vol. 105, 038701, pp. 1-14, 2010. IF: 7.728, Citări: 24
7. Sz. Horvát[&], Răzvan Gămănuț[&], Mária Ercsey-Ravasz[&], Loïc Magrou, Bianca Gămănuț, David C. Van Essen, Andreas Burkhalter, Kenneth Knoblauch, Zoltán Toroczkai, Henry Kennedy, ”Spatial embedding and wiring cost constrain the functional layout of cortical networks in rodents and primates”, *PLoS Biology*, vol. 14, e1002512, 2016. (& indicates equal contribution). IF: 9.797, Citări: 33
8. D. Deritei, Zs. Lazar, I. Papp, F. Jarai-Szabo, R. Sumi, L. Varga, ER Regan, M. Ercsey-Ravasz*, “Community detection by graph Voronoi diagrams”, *New Journal of Physics*, vol. 16, 063007, 2014, IF: 3.671, Citări: 11.
9. N.T. Markov, M. Ercsey-Ravasz, MA. Gariel, AR. Ribiero Gomes, C.Lamy, J. Vezoli, P. Misery, A. Falchier, R. Quilodran, J. Sallet, R. Gamanut, C. Huissoud, S. Clavagnier, P.

- Giroud, DS. Marinier, P. Barone, C. Dehay, Z. Toroczkai, K. Knoblauch, D. C. Van Essen, H. Kennedy, "A weighted and directed interareal connectivity matrix for macaque cerebral cortex", *Cerebral Cortex*, vol. 24, pp. 17-36, 2014. IF: 8.305, Citări: 201
10. M. Ercsey-Ravasz*, Z. Toroczkai, „The Chaos Within Sudoku”, *Scientific Reports* 2, pp. 755-762, 2012. IF: 5.078, Citări: 16.

b) Teza de doctorat

Titlul: Applications of Cellular Neural/Nonlinear Networks in Physics

c) Cărți și capitole de cărți

- K. Knoblauch, **M. Ercsey-Ravasz**, H. Kennedy, Z. Toroczkai, "The Brain in Space", in The 22nd Colloque Médecine et Recherche of the Fondation Ipsen in the Neurosciences series: "Micro-, meso- and macro-connectomics of the brain", Fondation IPSEN, Paris, France. Eds: H. Kennedy, D. Van Essen, Y. Christen Springer, Heidelberg, pp 45-74, 2016.
- **M. Ercsey-Ravasz**, Z. Toroczkai, "Döntések fizikája és rejtvények káosza" ("Physics of decision making and chaos of puzzles") in A fizika, matematika és művészet találkozási pontja az oktatásban, kutatásban (Physics, mathematics and arts in education and research), Ed.: A. Juhász, T. Tél, Publisher: Science Department of the Eötvös Lóránd University, Hungary, 2013.
- N.T. Markov, **M. Ercsey-Ravasz**, M.-A. Gariel, C. Dehay, K. Knoblauch, Z. Toroczkai, H. Kennedy. "The tribal networks of the cerebral cortex", in *Cerebral Plasticity*, eds: L.M. Chalupa, N. Berardi, M. Caleo, L. Galli-Resta, T. Pizzorusso, MIT Press, Cambridge MA, 2011.
- T. Roska, L. Belády, **M. Ercsey-Ravasz**, „Cellular Wave Computing in Nanoscale via Million Processor Chips”, in *Cellular Nanoscale Sensory Wave Computing*, eds: C. Baatar, W. Porod, T. Roska. Springer, New York, 2010.

d) Articole în jurnale internaționale cotate ISI

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Număr total al citărilor pe Publon (ResearcherID: E-2098-2017) (31.05.2019): 1208, h-index: 16; GoogleScholar citări: 2017, h-index 19

1. B Molnár, F. Molnar, M Varga, Z Toroczkai, M Ercsey-Ravasz*, „A high-performance analog max-SAT solver”, *Nature Communications*, vol. 9, 4864, pp. 1-12, 2018. IF: 12.353 , Citări: 1
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3. Xunzhao Yin, Behnam Sedighi, Melinda Varga, Mária Ercsey-Ravasz, Zoltán Toroczkai, Xiaobo Sharon Hu, „Efficient analog circuits for Boolean satisfiability”, *IEEE Transactions on Very Large Scale Integration (VLSI) Systems*, vol. 26 (1), pp. 155-167, 2018. IF: 1.744, Citări: 1
 4. H. Noori, J. Schottlet, M. Ercsey-Ravasz, A. Cosa-Linan, M. Varga, Z. Toroczkai, R. Spanagel, *PLoS Biology*, 15 (7), e2002612 2017. IF: 9.163 , Citări: 7
 5. Zs. I. Lazar, I. Papp, L. Varga, F. Jarai-Szabo, D. Deritei, M. Ercsey-Ravasz*, “Stochastic graph Voronoi tessellation reveals community structure”, *Physical Review E*, vol. 95, 022306, 2017. IF: 2.284, Citări: 0
 6. Sz. Horvát[&], Răzvan Gămănuț[&], Mária Ercsey-Ravasz[&], Loïc Magrou, Bianca Gămănuț, David C. Van Essen, Andreas Burkhalter, Kenneth Knoblauch, Zoltán Toroczkai, Henry Kennedy, ”Spatial embedding and wiring cost constrain the functional layout of cortical networks in rodents and primates”, *PLoS Biol.*, vol. 14, e1002512, 2016. (& indicates equal contribution). IF: 9.797 , Citări: 33
 7. R. Sumi, M. Varga, Z. Toroczkai, M. Ercsey-Ravasz*, “Order-to-chaos transition in the hardness of random Boolean satisfiability”, *Physical Review E*, vol. 93, 052211, 2016. IF: 2.366, Citări: 3
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 11. R. Sumi, B. Molnar, M. Ercsey-Ravasz*, “Robust optimization with transiently chaotic dynamical systems”, *Europhysics Letters*, vol. 106, 40002, 2014. IF: 2.269 , Citări: 5.
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 16. B. Molnár, M. Ercsey-Ravasz*, „Asymmetric Continuous-Time Neural Networks without Local Traps for Solving Constraint Satisfaction Problems”, *PloS One* 8(9), e73400, pp. 1-13, 2013. IF: 3.534, Citări: 11
 17. M. Ercsey-Ravasz*, Z. Toroczkai, „The Chaos Within Sudoku”, *Scientific Reports* 2, pp. 755-762, 2012. IF: 5.078, Citări: 16
 18. M. Ercsey-Ravasz*, Z. Toroczkai, Z. Lakner, J. Baranyi, „Complexity of the international agro-food trade network and its impact on food safety”, *PloS One* 7(5), e37810, pp. 1-7, 2012. IF: 3.534, Citări: 60
 19. M. Ercsey-Ravasz*, R. Lichtenwalter, N.V. Chawla, Z. Toroczkai, „Range-limited Centrality Measures in Weighted and Non-weighted Complex Networks”, *Physical Review E* vol. 85, 066103, pp. 1-14, 2012 IF: 2.326, Citări: 18
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25. M. Ercsey-Ravasz*, T. Roska, Z. Néda, „Cellular Neural Networks for NP-hard optimization”, *EURASIP Journal on Advances in Signal Processing, Special issue: CNN Technology for Spatio-temporal Signal Processing*, doi: 10.1155/2009/646975, pp. 1-7, 2009. IF: 0.808, Citări: 3
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28. M. Ercsey-Ravasz*, T. Roska, Z. Néda, „Statistical Physics on Cellular Neural Network Computers”, *Physica D: Nonlinear Phenomena, Special Issue: „Unconventional computing: Quo vadis?”*, vol. 237, no.9, pp. 1226-1234, 2008. IF: 1.829, Citări: 5
29. M. Ercsey-Ravasz*, T. Roska, Z. Néda, „Stochastic simulations on the cellular wave computers”, *European Physical Journal B*, vol. 51., no. 3, pp. 407-412, 2006. IF: 1.463, Citări: 9
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e) Publicații apărute în lucrările conferințelor internaționale

- Levente Varga; David Deritei; Maria Ercsey-Ravasz, Razvan Florian, Zsolt I. Lazar, Istvan Papp, Ferenc Jarai-Szabo, "Normalizing scientometric indicators of individual publications using local cluster detection methods on citation networks", *International Journal of Educational and Pedagogical Sciences*, vol. 12, no. 9, (2018). ICCSIB 2018 : 20th International Conference on Cybermetrics, Scientometrics, Informetrics and Bibliometrics, Barcelona, Spain, October 29-30, 2018.

- K. Knoblauch, **M. Ercsey-Ravasz**, H. Kennedy, Z. Toroczkai, "The Brain in Space", *Proc. of IPSEN*, Paris, May 2014.

- B. Molnar, R. Sumi, **M. Ercsey-Ravasz**, "A CNN SAT-solver robust to noise", *Proc. of the 14th IEEE Int. Conf. on Cellular Nanoscale Networks and their Applications*, PID3320585, Notre Dame, IN, USA, August 2014.

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- I. Papp, **M. Ercsey-Ravasz**, D. Deritei, R. Sumi, F. Jarai-Szabo, R.V. Florian, A.I. Cabuz, Zs.I. Lazar, "The P-index: Hirsch index of individual publications" *Proc. of the International Society of Scientometrics and Informetrics Conference, ISSI2013*, pp. 2086-2088, Vienna, Austria, July 2013.

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- N. Markov*, **M. Ercsey-Ravasz***, C. Dehay, P. Barone, D. Sappey-Mariniere, P. Misery, C. Lamy, P. Giroud, J. Sallet, S. Clavagnier, C. Huissoud, A. Falchier, R. Quilodran, J. Vezoli, M. Gariel, H. Kennedy, K. Knoblauch ,Z. Toroczkai, "Principles of inter-areal connections of the macaque cortex", *NeuroComp 2010*, pp. 258-263, October 2010 (* indicates equal contributions).

- **M. Ercsey-Ravasz**, T. Roska, Z. Néda , "Cellular Neural Networks for NP-hard optimization", *Proc. of the 11th IEEE Int. Conf. on Cellular Neural Networks and their Applications*, (Santiago de Compostela, Spain), pp. 52-56, July 2008.

- **M. Ercsey-Ravasz**, T. Roska, Z. Néda, „Random number generator and Monte carlo type simulations on the CNN-UM”, *Proc. of the 10th IEEE Int. Conf. on Cellular Neural Networks and their Applications*, (Istanbul, Turkey), pp. 47-52, August 2006.

f) Prezentări orale la conferințe internaționale

(prezentatorul subliniat)

- Botond Molnar, Melinda Varga, Ferenc Molnar, Zoltan Toroczkai, **Maria Ercsey-Ravasz** : ”Predicting with chaos: dynamical features reveal the global optimum of NP-hard problems”, MACS 2018, 12th Joint Conference on Mathematics and Computer Science, Cluj, Sacuieu, June 14 – 17, 2018.

- M. Ercsey-Ravasz, “Modeling the inter-areal cortical network based on the exponential distance rule – comparing mouse, rat and macaque”, ESI Systems Neuroscience Conference “Principles of structural and functional connectivity”, Frankfurt July 24-25, 2017.

- M. Ercsey-Ravasz, “A predictive network model of cerebral cortical connectivity based on a distance rule”, 18th International Neuroscience Winter Conference, Solden, Austria, April - 26, 2016

- R. Sumi, Z. Toroczkai, **M. Ercsey-Ravasz** "Chaotic phase transition in an analog approach to constraint satisfaction" *CHAOS 2012 -5th Chaotic Modeling and Simulation International Conference* , Athen, Greece, 12-15 June, 2012

- M. Ercsey-Ravasz "Döntések fizikája és rejtvények káosza" ("Physics of decisions and chaos of puzzles"), *A fizika, matematika és művészet találkozása az oktatásban (Physics, mathematics and arts in high school)* Tg. Mures, Romania, 15 August, 2012

- M. Ercsey-Ravasz, B. Molnar, Z. Toroczkai, „Solving constraint satisfaction problems via transiently chaotic analog systems and CNN dynamics”, *CNNA 2012*, Torino, Italy, August 2012.

- M. Ercsey-Ravasz, Z. Toroczkai, „Analog approaches to hard optimization: from Sudoku to CNNs”, *Statistical Mechanics of Unsatisfiability and Glasses*, Mariehamn, Finland, May 2012.

- M. Ercsey-Ravasz, Z. Toroczkai, H. Kennedy, N. Markov, K. Knoblauch, „A distance rule and link weights specify the inter-areal cortical network”, *NETSCI Int. Conf. On Network Science*, Budapest, Hungary, June 2011.

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- **M. Ercsey-Ravasz**, T. Roska, Z. Néda, „Statistical Physics on Cellular Neural Network Computers”, *Int. Conf. „Unconventional computing: Quo vadis?”*, Santa Fe, New Mexico, USA, March 2007
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- **M. Ercsey-Ravasz**, T. Roska, Z. Néda, „Applications of Cellular Neural Networks in physics”, *RHIC Winterschool*, Budapest, Hungary, November 2005
- **M. Ercsey-Ravasz**, „Spreading of families in predator-prey models”, *5th Scientific Conference of Transylvanian PhD Students*, Cluj-Napoca, Romania, 2004

g) Postere prezentate la conferințe internaționale

(prezentatorul subliniat)

- Levente Varga; David Deritei; **Maria Ercsey-Ravasz**, Razvan Florian, Zsolt I. Lazar, Istvan Papp, Ferenc Jarai-Szabo, „Normalizing scientometric indicators of individual publications using local cluster detection methods on citation networks”, *International Journal of Educational and Pedagogical Sciences*, vol. 12, no. 9, (2018). ICCSIB 2018 : 20th International Conference on Cybermetrics, Scientometrics, Informetrics and Bibliometrics, Barcelona, Spain, October 29-30, 2018.
- L. Varga, F. Jarai-Szabo, D. deritei, Zs.I. Lazar, I. Papp, **M. Ercsey-Ravasz**, R. Florian, “Normalized cross-disciplinary article impact evaluation”, *Global TechMining Conference*, GTM2014, Leiden, Netherlands, 2014.
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- **M. Ercsey-Ravasz**, "Collective behaviour of electronic fireflies", SynCoNet 2007: *International Symposium on Synchronization in Complex Networks*, Arenberg Castle, Leuven, Belgium, 2007.

h) Alte lucrări

- **M. Ercsey-Ravasz**, „Agyi hálózatok modellezése egy távolságszabály alapján” („Modelling cortical networks based on a distance rule”), *FIRKA*, invited paper, vol. 27, nr.4, pp. 13-18, 2018.

- **M. Ercsey-Ravasz**, Z. Toroczkai, "A döntéshozatal és a Sudoku kaosza" ("The Chaos Within Sudoku and Decision Making"), *Termesztet Világa (World of Nature)*, invited paper in the special issue "Kaosz, Környezet, Komplexitás" ("Chaos, Environment, Complexity"), Budapest, Hungary, p. 122, 2013

- **M. Ercsey-Ravasz**, T. Roska, Z. Néda, „Analogic Cellular Computers – A New Computational Paradigm” (in Hungarian), *Technical Review*, vol. 42. , pp. 19-25, 2008.

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- **M. Ravasz**, Z. Néda, „Fragmentation of drying granular materials on surfaces with high anisotropy” (in Hungarian), *Modern studies in experimental and theoretical physics*, Scientia, Cluj-Napoca, 2003

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