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List of papers and conference contributions

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1 Journal issues

- [I1] “Proceedings of the 2nd Polish Symposium on Econo- and Sociophysics”. *Acta Physica Polonica B* **37.11** (2006). Ed. by Z. Burda, J. Hołyst, J. Jurkiewicz, K. Kułakowski, K. Malarz, M. A. Nowak, and K. Życzkowski.
- [I2] “Proceedings of the 6th Polish Symposium on Econo- and Sociophysics”. *Acta Physica Polonica A* **123.3** (2013). Ed. by S. Drożdż, G. Graff, D. Grech, J. Kwapien, D. Makowiec, J. Hołyst, A. Krawiecki, R. Kutner, K. Kułakowski, K. Malarz, C. Mesjasz, P. Oświęcimka, and Z. Struzik.
- [I3] “Special issue: Entropy and social physics”. *Entropy* (2022). Ed. by K. Malarz.
- [I4] “Special issue: Modern trends in sociophysics”. *Entropy* (2023). Ed. by K. Malarz and K. Sznajd-Weron.

2 Articles

Journal papers registered in Web of Science database

- [A1.1] K. Malarz, K. Kułakowski, M. Antoniuk, M. Grodecki, and D. Stauffer. “Some new facts of Life”. *International Journal of Modern Physics C* **9.3** (1998), 449–458.
- [A1.2] K. Malarz and D. Tiggemann. “Dynamics in Eigen quasispecies model”. *International Journal of Modern Physics C* **9.3** (1998), 481–490.
- [A1.3] K. Malarz and A. M. Vidales. “Universal ratio χ in two-dimensional square random-site percolation”. *International Journal of Modern Physics C* **9.1** (1998), 147–155.
- [A1.4] K. Malarz and A. Z. Maksymowicz. “A simple solid-on-solid model of epitaxial film growth: Surface morphology anisotropy”. *International Journal of Modern Physics C* **10.4** (1999), 659–665.
- [A1.5] K. Malarz and A. Z. Maksymowicz. “A simple solid-on-solid model of epitaxial film growth: Surface roughness and dynamics”. *International Journal of Modern Physics C* **10.4** (1999), 645–657.
- [A1.6] K. Malarz. “A simple solid-on-solid model of epitaxial film growth: Submonolayer substrate coverage”. *International Journal of Modern Physics C* **11.2** (2000), 1561–1566.
- [A1.7] K. Malarz. “Searching for scaling in the Penna bit-string model of biological aging”. *International Journal of Modern Physics C* **11.2** (2000), 309–315.
- [A1.8] K. Malarz and A. Z. Maksymowicz. “A simple solid-on-solid model of epitaxial thin films growth: Inhomogeneous multilayered sandwiches”. *Thin Solid Films* **367.1-2** (2000), 28–31.
- [A1.9] K. Malarz, S. Kaczanowska, and K. Kułakowski. “Are forest fires predictable?”. *International Journal of Modern Physics C* **13.8** (2002), 1017–1031.
- [A1.10] K. Malarz. “Social phase transition in Solomon network”. *International Journal of Modern Physics C* **14.5** (2003), 561–565.
- [A1.11] K. Malarz, J. Czaplicki, B. Kawecka-Magiera, and K. Kułakowski. “Average distance in growing trees”. *International Journal of Modern Physics C* **14.9** (2003), 1201–1206.

- [A1.12] K. Malarz, M. S. Magdoń-Maksymowicz, A. Z. Maksymowicz, B. Kawecka-Magiera, and K. Kułakowski. “New algorithm for the computation of the partition function for the Ising model on a square lattice”. *International Journal of Modern Physics C* **14.5** (2003), 689–694.
- [A1.13] J. Karpińska, K. Malarz, and K. Kułakowski. “How pairs of partners emerge in an initially fully connected society”. *International Journal of Modern Physics C* **15.9** (2004), 1227–1233.
- [A1.14] K. Malarz and K. Kułakowski. “Dependence of the average to-node distance on the node degree for random graphs and growing networks”. *The European Physical Journal B* **41.3** (2004), 333–336.
- [A1.15] S. Galam and K. Malarz. “Restoring site percolation on damaged square lattices”. *Physical Review E* **72.2** (2005), 027103.
- [A1.16] R. Kosturek and K. Malarz. “New cellular automaton designed to simulate epitaxial films growth”. *Physica A* **345.3-4** (2005), 538–546.
- [A1.17] M. J. Krawczyk, K. Malarz, B. Kawecka-Magiera, A. Z. Maksymowicz, and K. Kułakowski. “Spin-glass properties of an Ising antiferromagnet on the Archimedean $(3, 12^2)$ lattice”. *Physical Review B* **72.2** (2005), 024445.
- [A1.18] K. Malarz and S. Galam. “Square-lattice site percolation at increasing ranges of neighbor bonds”. *Physical Review E* **71.1** (2005), 016125.
- [A1.19] K. Malarz and K. Kułakowski. “Matrix representation of evolving networks”. *Acta Physica Polonica B* **36.8** (2005), 2523–2536.
- [A1.20] K. Malarz and K. Kułakowski. “Memory effect in growing trees”. *Physica A* **345.1-2** (2005), 326–334.
- [A1.21] S. Piec, K. Malarz, and K. Kułakowski. “How to count trees?” *International Journal of Modern Physics C* **16.10** (2005), 1527–1534.
- [A1.22] A. O. Sousa, K. Malarz, and S. Galam. “Reshuffling spins with short range interactions: When socio-physics produces physical results”. *International Journal of Modern Physics C* **16.10** (2005), 1507–1517.
- [A1.23] B. Tadić, K. Malarz, and K. Kułakowski. “Magnetization reversal in spin patterns with complex geometry”. *Physical Review Letters* **94.13** (2005), 137204.
- [A1.24] F. W. S. Lima and K. Malarz. “Majority-vote model on $(3, 4, 6, 4)$ and $(3^4, 6)$ Archimedean lattices”. *International Journal of Modern Physics C* **17.9** (2006), 1273–1283.
- [A1.25] K. Malarz. “Numbers of n -th neighbors and node-to-node distances in growing networks”. *Acta Physica Polonica B* **37.2** (2006), 309–318.
- [A1.26] K. Malarz. “Truth seekers in opinion dynamics models”. *International Journal of Modern Physics C* **17.10** (2006), 1521–1524.
- [A1.27] K. Malarz, D. Stauffer, and K. Kułakowski. “Bonabeau model on a fully connected graph”. *The European Physical Journal B* **50.1-2** (2006), 195–198.
- [A1.28] K. Malarz, Z. Szvetelszky, B. Szekfü, and K. Kułakowski. “Gossip in random networks”. *Acta Physica Polonica B* **37.11** (2006), 3049–3058.
- [A1.29] M. Majewski and K. Malarz. “Square lattice site percolation thresholds for complex neighbourhoods”. *Acta Physica Polonica B* **38.6** (2007), 2191–2199.
- [A1.30] K. Malarz. “The risk of extinction—the mutational meltdown or the overpopulation”. *Theory in Biosciences* **125.2** (2007), 147–156.
- [A1.31] K. Malarz, W. Antosiewicz, J. Karpińska, K. Kułakowski, and B. Tadić. “Avalanches in complex spin networks”. *Physica A* **373** (2007), 785–795.
- [A1.32] A. Mańka, K. Malarz, and K. Kułakowski. “Clusterization, frustration and collectivity in random networks”. *International Journal of Modern Physics C* **18.11** (2007), 1765–1773.
- [A1.33] K. Malarz and K. Kułakowski. “The Sznajd dynamics on a directed clustered network”. *Acta Physica Polonica A* **114.3** (2008), 581–588.
- [A1.34] K. Malarz and D. Stauffer. “Search for bottleneck effects in Penna ageing and Schulze language model”. *Advances in Complex Systems* **11.1** (2008), 165–169.
- [A1.35] R. Denecke, J. Korecki, E. Pincik, P. Jelinek, and K. Malarz. “Solid state surfaces and interfaces”. *Central European Journal of Physics* **7.2** (2009), 207–208.
- [A1.36] C. Tsallis, G. Kaniadakis, A. Carbone, A. M. Scarfone, and K. Malarz. “Advances in statistical physics”. *Central European Journal of Physics* **7.3** (2009), 385–386.

- [A1.37] K. Malarz and K. Kułakowski. “Indifferents as an interface between Contra and Pro”. *Acta Physica Polonica A* **117.4** (2010), 695–699.
- [A1.38] F. W. S. Lima, J. Mostowicz, and K. Malarz. “Critical behaviour of the Ising $S = 1/2$ and $S = 1$ model on (3, 4, 6, 4) and (3, 3, 3, 3, 6) Archimedean lattices”. *Communications in Computational Physics* **10.4** (2011), 912–919.
- [A1.39] K. Malarz, P. Gronek, and K. Kułakowski. “Zaller–Deffuant model of mass opinion”. *JASSS—the Journal of Artificial Societies and Social Simulation* **14.1** (2011), 2.
- [A1.40] K. Malarz, R. Korff, and K. Kułakowski. “Norm breaking in crowd—athermal phase transition”. *International Journal of Modern Physics C* **22.7** (2011), 719–728.
- [A1.41] J. C. Santos, F. W. S. Lima, and K. Malarz. “Majority-vote model on triangular, honeycomb and Kagome lattices”. *Physica A* **390.2** (2011), 359–364.
- [A1.42] Ł. Kurzawski and K. Malarz. “Simple cubic random-site percolation thresholds for complex neighbourhoods”. *Reports on Mathematical Physics* **70.2** (2012), 163–169.
- [A1.43] K. Malarz and K. Kułakowski. “Bounded confidence model: addressed information maintain diversity of opinions”. *Acta Physica Polonica A* **121.2-B** (2012), B86–B88.
- [A1.44] P. Gawroński, K. Malarz, M. J. Krawczyk, J. Malinowski, A. Kupczak, W. Sikora, K. Kułakowski, J. Wąs, and J. W. Kantelhardt. “Strategies in crowd and crowd structure”. *Acta Physica Polonica A* **123.3** (2013), 522–525.
- [A1.45] K. Malarz. “Simple cubic random-site percolation thresholds for neighborhoods containing fourth-nearest neighbors”. *Physical Review E* **91.4** (2015), 043301.
- [A1.46] K. Malarz, A. Kowalska-Styczeń, and K. Kułakowski. “The working group performance modeled by a bi-layer cellular automaton”. *Simulation—Transactions of the Society for Modeling and Simulation International* **92.2** (2016), 179–193.
- [A1.47] K. Malarz and K. Kułakowski. “Game of collisions”. *Physica A* **457** (2016), 377–390.
- [A1.48] M. Rybak, K. Malarz, and K. Kułakowski. “Competing contact processes in the Watts–Strogatz network”. *The European Physical Journal B* **89.6** (2016), 145.
- [A1.49] A. Kowalska-Styczeń, K. Malarz, and K. Paradowski. “Model of knowledge transfer within an organisation”. *JASSS—the Journal of Artificial Societies and Social Simulation* **21.2** (2018), 3.
- [A1.50] K. Paradowski, A. Kowalska-Styczeń, and K. Malarz. “Influence of a range of interaction among agents on efficiency and effectiveness of knowledge transfer within an organisation”. *Acta Physica Polonica A* **133.6** (2018), 1470–1476.
- [A1.51] P. Bańcerowski and K. Malarz. “Multi-choice opinion dynamics model based on Latané theory”. *The European Physical Journal B* **92.10** (2019), 219.
- [A1.52] M. Kotwica, P. Gronek, and K. Malarz. “Efficient space virtualisation for Hoshen–Kopelman algorithm”. *International Journal of Modern Physics C* **30.8** (2019), 1950055.
- [A1.53] K. Malarz and K. Kułakowski. “Paradox of integration—Dynamics of two-dimensional status”. *International Journal of Modern Physics C* **30.6** (2019), 1950040.
- [A1.54] Z. Burda, M. Kotwica, and K. Malarz. “Ageing of complex networks”. *Physical Review E* **102.4** (2020), 042302.
- [A1.55] A. Kowalska-Styczeń and K. Malarz. “Noise induced unanimity and disorder in opinion formation”. *Plos One* **15.7** (2020), e0235313.
- [A1.56] K. Malarz. “Site percolation thresholds on triangular lattice with complex neighborhoods”. *Chaos* **30.12** (2020), 123123.
- [A1.57] K. Malarz and K. Kułakowski. “Paradox of integration—Cellular automata approach”. *Acta Physica Polonica A* **138.1** (2020), 60–64.
- [A1.58] K. Malarz and M. Wołoszyn. “Expulsion from structurally balanced paradise”. *Chaos* **30.12** (2020), 121103.
- [A1.59] K. Malarz, M. Wołoszyn, and K. Kułakowski. “Towards the Heider balance with a cellular automaton”. *Physica D* **411** (2020), 132556.
- [A1.60] Z. Burda, M. J. Krawczyk, K. Malarz, and M. Snarska. “Wealth rheology”. *Entropy* **23.7** (2021), 842.
- [A1.61] K. Malarz. “Percolation thresholds on triangular lattice for neighbourhoods containing sites up to the fifth coordination zone”. *Physical Review E* **103.5** (2021), 052107.

- [A1.62] K. Malarz and K. Kułakowski. “Comment on ‘Phase transition in a network model of social balance with Glauber dynamics’”. *Physical Review E* **103.6** (2021), 066301.
- [A1.63] K. Malarz and K. Kułakowski. “Heider balance of a chain of actors as dependent on the interaction range and a thermal noise”. *Physica A* **567** (2021), 125640.
- [A1.64] S. Biernacki and K. Malarz. “Does social distancing matter for infectious disease propagation? An SEIR model and Gompertz law based cellular automaton”. *Entropy* **24.6** (2022), 832.
- [A1.65] K. Malarz. “Random site percolation on honeycomb lattices with complex neighborhoods”. *Chaos* **32.8** (2022), 083123.
- [A1.66] K. Malarz and J. A. Hołyst. “Mean-field approximation for structural balance dynamics in heat bath”. *Physical Review E* **106.6** (2022), 064139.
- [A1.67] M. Wołoszyn and K. Malarz. “Thermal properties of structurally balanced systems on diluted and densified triangulations”. *Physical Review E* **105.2** (2022), 024301.
- [A1.68] M. Dworak and K. Malarz. “Vanishing opinions in Latané model of opinion formation”. *Entropy* **25.1** (2023), 58.
- [A1.69] M. J. Krawczyk and K. Malarz. “Recovering Zipf’s law in intercontinental scientific collaboration”. *Chaos* **33.11** (2023), 111102.
- [A1.70] K. Malarz. “Random site percolation thresholds on square lattice for complex neighborhoods containing sites up to the sixth coordination zone”. *Physica A* **632.1** (2023), 129347.
- [A1.71] K. Malarz and T. Maslyk. “Phase diagram for social impact theory in initially fully differentiated society”. *Physics* **5.4** (2023), 1031–1047.
- [A1.72] K. Malarz and M. Wołoszyn. “Thermal properties of structurally balanced systems on classical random graphs”. *Chaos* **33.7** (2023), 073115.
- [A1.73] K. Malarz. “Universality of percolation thresholds for two-dimensional complex non-compact neighborhoods”. *Physical Review E* **109.3** (2024), 034108.

Book chapters registered in Web of Science database

- [A2.1] K. Malarz, S. Kaczanowska, and K. Kułakowski. “Chaotic dynamics of forest fires”. *Frontiers on Nonlinear Dynamics* **3** (2004), 334–343.
- [A2.2] K. Malarz, M. Sitarz, P. Groniek, and A. Dydejczyk. “Size of the stable population in the Penna bit-string model of biological aging”. *Lecture Notes in Computer Science* **3037** (2004), 638–641.
- [A2.3] K. Malarz. “Spectral properties of adjacency and distance matrices for various networks”. *Lecture Notes in Computer Science* **5102** (2008), 559–567.
- [A2.4] M. J. Krawczyk, K. Malarz, R. Korff, and K. Kułakowski. “Communication and trust in the bounded confidence model”. *Lecture Notes in Computer Science* **6421** (2010), 90–99.

Other articles

- [B1] K. Malarz, A. Z. Maksymowicz, and K. Kułakowski. “How physicists waste supercomputers time in Academic Computer Centre Cyfronet-Kraków”. *TASK Quarterly* **2.1** (1998), 85–95.
- [B2] K. Malarz. “Advantages and disadvantages of layer growth model in which particles maximize number of lateral bonds”. *Electron Technology* **33.3** (2000), 319–322.
- [B3] K. Malarz, J. Karpińska, A. Kardas, and K. Kułakowski. “Node-node distance distribution for growing networks”. *TASK Quarterly* **8.1** (2004), 115–119.
- [B4] K. Malarz, M. Zborek, and B. Wróbel. “Curie temperatures for the Ising model on Archimedean lattices”. *TASK Quarterly* **9.4** (2005), 475–480.
- [B5] K. Malarz, V. Chandra, E. Mitleton-Kelly, and K. Kułakowski. “Probabilistic spreading of information in a spatial network”. *International Journal of Computer Information Systems and Industrial Management Applications* **3** (2011), 407–414.
- [B6] K. Malarz, M. J. Krawczyk, and K. Kułakowski. “Influence of long-range interactions on strategy selection in crowd”. *Acta Physica Polonica B Proceedings Supplement* **7.2** (2014), 371–378.

Magazines articles

- [D1] K. Malarz and K. Kułakowski. “Mental ability and common sense in an artificial society”. *Europhysics News* **45.4** (2014), 21–23.

3 Conference contributions

Conference proceedings

- [C1] A. Z. Maksymowicz, K. Malarz, M. S. Magdoń, J. J. S. Whiting, and S. M. Thompson. “Computer simulation of anisotropic thin film growth”. *Proceedings of the High Performance Computing on Hewlett-Packard Systems Conference*. Ed. by M. Bubak and J. Mościński. Academic Computer Center Cyfronet–Kraków, 1997, 211–218.
- [C2] A. Z. Maksymowicz, K. Malarz, G. Nagel, and M. S. Magdoń. “Structural correlation in growing thin film surfaces”. *Proceedings of the High Performance Computing on Hewlett-Packard Systems Conference*. Ed. by M. Bubak and J. Mościński. Academic Computer Center Cyfronet–Kraków, 1997, 227–234.
- [C3] K. Malarz and K. Kułakowski. “Cooperation and surviving with limited resources”. *Proceedings of the 2nd European Interdisciplinary School on Nonlinear Dynamics for System and Signal Analysis*. Ed. by W. Klonowski. Pabst Science Publishers, 2001, 192–197.
- [C4] A. Kaczanowski, K. Malarz, and K. Kułakowski. “Hysteresis loop of a nanoscopic magnetic array”. *Proceedings of the International Conference Computational Methods in Sciences and Engineering*. Ed. by T. E. Simos. World Scientific, 2003, 258–261.
- [C5] K. Kułakowski, K. Malarz, and M. J. Krawczyk. “Heavy context dependence—decisions of underground soldiers”. *Proceedings of the 29th European Conference on Modelling and Simulation*. Ed. by V. M. Mladenov, G. Spasov, P. Georgieva, and G. Petrova. European Council for Modeling and Simulation, 2015.
- [C6] A. Kowalska-Styczeń, K. Malarz, and K. Paradowski. “Searching for effective and efficient way of knowledge transfer within an organization”. *Proceedings of the 10th International Conference on Agents and Artificial Intelligence*. Ed. by A. P. Rocha and J. van den Herik. Scitepress, 2018, 151–158.
- [C7] A. Kowalska-Styczeń and K. Malarz. “Are randomness of behavior and information flow important to opinion forming in organization?”. *Proceedings of the 36th International Business Information Management Association Conference*. Ed. by K. S. Soliman. International Business Information Management Association, 2020, 10691–10698.

Oral presentations

- [C1.1] A. Z. Maksymowicz, K. Malarz, M. S. Magdoń, J. J. S. Whiting, and S. M. Thompson. “Computer simulation of anisotropic thin film growth”. *High Performance Computing on Hewlett-Packard Systems Conference*. Kraków (PL), 1997. [C1].
- [C1.2] A. Z. Maksymowicz, K. Malarz, G. Nagel, and M. S. Magdoń. “Structural correlation in growing thin film surfaces”. *High Performance Computing on Hewlett-Packard Systems Conference*. Kraków (PL), 1997. [C2].
- [C1.3] K. Malarz and A. Z. Maksymowicz. “A simple solid-on-solid model of epitaxial thin films growth: inhomogeneous multilayered sandwiches”. *3rd International Workshop MBE-GPT*. Warszawa (PL), 1999. [A1.8].
- [C1.4] K. Malarz and K. Kułakowski. “Cooperation and surviving with limited resources”. *2nd European Interdisciplinary School on Nonlinear Dynamics for System and Signal Analysis*. Warszawa (PL), 2001. [C3].
- [C1.5] K. Malarz, S. Kaczanowska, and K. Kułakowski. “Chaotic dynamics of forest fires”. *3rd European Interdisciplinary School on Nonlinear Dynamics for System and Signal Analysis*. Warszawa (PL), 2002. [A2.1].
- [C1.6] A. Kaczanowski, K. Malarz, and K. Kułakowski. “Hysteresis loop of a nanoscopic magnetic array”. *International Conference Computational Methods in Sciences and Engineering*. Kastoria (GR), 2003. [C4].
- [C1.7] K. Malarz and K. Kułakowski. “Matrix representation of evolving networks”. *1st Polish Symposium on Econo- and Sociophysics*. Warszawa (PL), 2004. [A1.19].
- [C1.8] K. Malarz, M. Sitarz, P. Gronek, and A. Dydejczyk. “Size of the stable population in the Penna bit-string model of biological aging”. *4th International Conference on Computational Science*. Kraków (PL), 2004. [A2.2].
- [C1.9] K. Malarz, D. Stauffer, and K. Kułakowski. “Bonabeau model on a fully connected graph”. *3rd $\Sigma\Phi$ International Conference in Statistical Physics*. Kolympari (GR), 2005. [A1.27].

- [C1.10] P. Kowalczyk, R. Kosturek, and K. Malarz. “Solid-on-solid models of films growth”. *Kraków Computer Science Workshop*. Kraków (PL), 2006.
- [C1.11] K. Malarz, Z. Szvetelszky, B. Szekfü, and K. Kułakowski. “Gossip in random networks”. *2nd Polish Symposium on Econo- and Sociophysics*. Kraków (PL), 2006. [A1.28].
- [C1.12] K. Malarz. “How network topology influences searching for and spreading of information”. *COST P-10/WG-3 Workshop*. Belgrade (RS), 2007.
- [C1.13] K. Malarz and K. Kułakowski. “The Sznajd dynamics in a social network”. *3rd Polish Symposium on Econo- and Sociophysics*. Wrocław (PL), 2007. [A1.33].
- [C1.14] K. Malarz and K. Kułakowski. “The Sznajd dynamics in a social network”. *Applications of Networks: From Fundamental Physics to Complex Networks*. Kraków (PL), 2007.
- [C1.15] K. Malarz. “Spectral properties of adjacency and distance matrices for various networks”. *8th International Conference on Computational Science*. Kraków (PL), 2008. [A2.3].
- [C1.16] K. Malarz and K. Kułakowski. “Indifferents as an interface between Contra and Pro”. *4th Polish Symposium on Econo- and Sociophysics*. Rzeszów (PL), 2009. [A1.37].
- [C1.17] K. Piś and K. Malarz. “Magnetic hysteresis loops of Ising spin systems with long-range interaction”. *Frontiers in Modern Physics and its Applications*. Kraków (PL), 2009.
- [C1.18] M. J. Krawczyk, K. Malarz, R. Korff, and K. Kułakowski. “Communication and trust in the bounded confidence model”. *2nd International Conference on Computational Collective Intelligence—Technologies and Applications*. Kaohsiung (TW), 2010. [A2.4].
- [C1.19] K. Malarz, V. Chandra, E. Mitleton-Kelly, and K. Kułakowski. “Probabilistic spreading of information in a spatial network”. *10th International Conference on Computer Information Systems and Industrial Management Applications*. Kraków (PL), 2010. [B5].
- [C1.20] K. Malarz, K. Kułakowski, and R. Korff. “Athermal phase transition in the Ising model”. *10th International Conference on Unconventional Computation*. Turku (FI), 2011.
- [C1.21] K. Malarz and K. Kułakowski. “Zaller–Deffuant model of opinion formation”. *42nd Congress of Polish Physicists*. Poznań (PL), 2013.
- [C1.22] K. Malarz and K. Kułakowski. “An influence of unexpected events on our timetables investigated by means of an agent-based cellular automaton”. *11th International Conference on Cellular Automata for Research and Industry*. Kraków (PL), 2014.
- [C1.23] K. Malarz, A. Kowalska-Styczeń, A. Waryś, and K. Kułakowski. “Modelling the effectiveness of working groups using the technique of cellular automata”. *43rd Congress of Polish Physicists*. Kielce (PL), 2015.
- [C1.24] K. Malarz. “Cellular automata motivated model of vehicle traffic in contemporary city center”. *Summer Solstice Conference on Discrete Models of Complex Systems*. Gdańsk (PL), 2018.
- [C1.25] P. Bańcerowski and K. Malarz. “Influence of group leader strength on group opinion unanimity”. *Conference on Complex Systems*. Singapore (SG), 2019.
- [C1.26] K. Malarz and K. Kułakowski. “Computer simulation of the paradox of integration of the social group”. *45th Congress of Polish Physicists*. Kraków (PL), 2019.
- [C1.27] K. Malarz and K. Kułakowski. “Paradox of integration—Cellular automata approach”. *10th Polish Symposium on Physics in Economy and Social Sciences*. Świerk (PL), 2019. [A1.57].
- [C1.28] K. Kułakowski, Z. Burda, P. Gawroński, M. J. Krawczyk, K. Malarz, and M. Wołoszyn. “Towards the Heider balance—Standards and surprises”. *11th Polish Symposium on Physics in Economy and Social Sciences*. On-line, 2021.
- [C1.29] K. Malarz. “Heat-bath for friends and enemies”. *47th Congress of Polish Physicists*. Bydgoszcz (PL), 2021.
- [C1.30] K. Malarz and M. J. Krawczyk. “Does size matter?” *Conference on Complex Systems*. Lyon (FR), 2021.
- [C1.31] M. J. Krawczyk, M. Libirt, and K. Malarz. “Ranking sequences of continents and countries in affiliations of scientific papers authors”. *International Conference on Statistical Physics*. Chania (GR), 2023.
- [C1.32] K. Malarz. “Searching for universal formula for percolation threshold on two-dimensional lattices with complex neighbourhoods”. *International Conference on Statistical Physics*. Chania (GR), 2023.
- [C1.33] M. Wołoszyn and K. Malarz. “Structural balance and social noise: From triangular networks to random graphs”. *International Conference on Discrete Models of Complex Systems—Summer Solstice*. Firenze (IT), 2023.

Poster sessions

- [C2.1] K. Höppner, W. Schülke, A. Kaprolat, G. Stutz, S. Kaprzyk, A. Z. Maksymowicz, K. Malarz, J. Kwiatkowska, and F. Maniawski. “Compton scattering study of CuAl”. *2nd International Workshop on Compton Scattering and Fermiology*. Tokyo (JP), 1997.
- [C2.2] K. Malarz. “Advantages and disadvantages of layer growth model in which particles maximize number of lateral bonds”. *7th Seminar on Surface and Thin Film Structures*. Kazimierz Dolny (PL), 1999. [B2].
- [C2.3] K. Malarz, T. Sitkowski, A. Górecki, J. Szkutnik, L. Dominguez, and K. Kułakowski. “Magnetism vs. structure of random clusters of atoms”. *International Conference on Spectral and Transport Properties of Random Network Models*. Göttingen (DE), 2000.
- [C2.4] K. Malarz, J. Karpińska, A. Kardas, and K. Kułakowski. “Node-node distance distribution for growing networks”. *37th Congress of Polish Physicists*. Gdańsk (PL), 2003. [B3].
- [C2.5] W. Antosiewicz, P. Gawroński, M. J. Krawczyk, K. Malarz, M. Wołoszyn, and K. Kułakowski. “Simulations of dynamics of complex magnetic structures”. *3rd Joint European Magnetic Symposia*. San Sebastian (ES), 2006.
- [C2.6] P. Kamysz and K. Malarz. “Hysteresis loops and spins flips avalanches for the Ising model on $\text{Rb}_2\text{-Cu}_{1-x}\text{Co}_x\text{F}_4$ -like lattice”. *19th Conference on Computer Physics*. Brussels (BE), 2007.
- [C2.7] K. Piś and K. Malarz. “Magnetic hysteresis loops of Ising spin systems with long-range interaction”. *4th $\Sigma\Phi$ International Conference in Statistical Physics*. Kolympari (GR), 2008.
- [C2.8] K. Malarz and K. Kułakowski. “Bounded confidence model: addressed information maintain diversity of opinions”. *5th Polish Symposium on Econo- and Sociophysics*. Warszawa (PL), 2010. [A1.37].
- [C2.9] K. Malarz and K. Kułakowski. “Bounded confidence model: addressed information maintain diversity of opinions”. *7th European Conference on Complex Systems*. Lisbon (PT), 2010.
- [C2.10] Ł. Kurzawski and K. Malarz. “Simple cubic lattice random-site percolation thresholds for complex neighborhoods”. *5th $\Sigma\Phi$ International Conference on Statistical Physics*. Larnaca (CY), 2011. [A1.42].
- [C2.11] K. Malarz and K. Kułakowski. “The Ising phase transition without temperature”. *47th Winter Schools of Theoretical Physics*. Łądek Zdrój (PL), 2011.
- [C2.12] K. Malarz, M. J. Krawczyk, J. W. Kantelhardt, and K. Kułakowski. “Critical slowing down in strategy selection in crowd”. *6th Polish Symposium on Econo- and Sociophysics*. Gdańsk (PL), 2012. [A1.44].
- [C2.13] M. J. Krawczyk, K. Malarz, and K. Kułakowski. “Influence of long-range interactions on strategy selection in crowd”. *Summer Solstice Conference on Discrete Models of Complex Systems*. Warszawa (PL), 2013. [B6].
- [C2.14] K. Malarz and K. Kułakowski. “How unexpected events destroy our timetables”. *7th Polish Symposium on Econo- and Sociophysic*. Lublin (PL), 2014.
- [C2.15] M. J. Rybak, K. Malarz, and K. Kułakowski. “Competing contact processes in the Watts–Strogatz network”. *6th $\Sigma\Phi$ International Conference on Statistical Physics*. Rhodes (GR), 2014.
- [C2.16] M. J. Rybak, K. Malarz, and K. Kułakowski. “Competing contact processes in the Watts–Strogatz network”. *39th Middle European Cooperation in Statistical Physics*. Coventry (UK), 2014.
- [C2.17] K. Kułakowski, K. Malarz, and M. J. Krawczyk. “Heavy context dependence—decisions of underground soldiers”. *29th European Conference on Modelling and Simulation*. Albena (BG), 2015. [C5].
- [C2.18] K. Malarz and K. Kułakowski. “Ising-like systems without temperature”. *Phase Transitions and Critical Phenomena*. Coventry (UK), 2016.
- [C2.19] K. Malarz, K. Paradowski, and A. Kowalska-Styczeń. “Modeling knowledge transfer in organizations by means of cellular automata technique”. *44th Congress of Polish Physicists*. Wrocław (PL), 2017.
- [C2.20] K. Paradowski, A. Kowalska-Styczeń, and K. Malarz. “Influence of a range of interaction among agents on efficiency of knowledge transfer within an organization”. *13th Econophysics Colloquium & 9th Polish Symposium on Physics in Economy and Social Sciences*. Warszawa (PL), 2017. [A1.50].
- [C2.21] A. Kowalska-Styczeń, K. Malarz, and K. Paradowski. “Searching for effective and efficient way of knowledge transfer within an organization”. *10th International Conference on Agents and Artificial Intelligence*. Funchal, Madeira (PT), 2018. [C6].
- [C2.22] K. Malarz. “Percolation thresholds for complex neighbourhoods in two-, three- and four-dimensional space”. *43rd Conferences of the Middle European Cooperation in Statistical Physics*. Kraków (PL), 2018.

- [C2.23] K. Malarz and A. Kowalska-Styczeń. “Modeling knowledge transfer in organizations by means of cellular automata technique”. *Conference on Complex Systems*. Thessaloniki (GR), 2018.
- [C2.24] K. Malarz and A. Kowalska-Styczeń. “Opinion formation and spread: Do randomness of behaviour and information flow matter?” *Conference on Complex Systems*. On-line, 2020.
- [C2.25] M. Dworak and K. Malarz. “Vanishing opinions in the Latané model of opinion formation”. *Conference on Complex Systems*. Palma de Mallorca (ES), 2022.
- [C2.26] M. J. Krawczyk, M. Libirt, and K. Malarz. “Ranking sequences of continents and countries in affiliations of scientific papers authors”. *12th Polish Symposium on Physics in Economy and Social Sciences*. Wrocław (PL), 2023.