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1. Education

2013–2015	Interdisciplinary Ph.D. Studies Program <i>Information Technologies: Research and their interdisciplinary applications</i> Institute of Computer Science PAS, Systems Research Institute PAS, Institute of Biocybernetics and Biomedical Engineering PAS
2010–2012	M.Sc. in mathematics, Mathematical Statistics and Data Analysis, Faculty of Mathematics and Information Science, Warsaw University of Technology
2007–2010	B.Sc. in mathematics, Faculty of Mathematics and Information Science, Warsaw University of Technology

2. Professional Experience

2012–	Systems Research Institute Polish Academy of Sciences, Warsaw Research Assistant , Department of Stochastic Methods
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3. Scientific intrests

- Mathematical and computational statistic
- Data minig, machine learning
- Soft computing, fuzzy set theory
- Aggregation theory

4. Publications

• Textbooks

1. Gągolewski M., Bartoszek M., **Cena A.**, *Przetwarzanie i analiza danych w języku Python (Data processing & analysis in Python)*, Wydawnictwo Naukowe PWN, 2016, pp. 369, ISBN: 978-83-01-18940-2.

• Articles in Journals

2. Gągolewski M., Bartoszek M., **Cena A.**, Genie: A new, fast, and outlier-resistant hierarchical clustering algorithm, *Information Sciences* **363**, 2016, pp. 8–23.
3. Żogała-Siudem B., Siudem G., **Cena A.**, Gągolewski M., Agent-based model for the h-index – Exact solution, *European Physical Journal B* **89**(21), 2016.
4. **Cena A.**, Gągolewski M., Mesiar R., Problems and challenges of information resources producers' clustering, *Journal of Informetrics* **9**(2), 2015, pp. 273–284.
5. **Cena A.**, Gągolewski M., OM3: Ordered maxitive, minitive, and modular aggregation operators - axiomatic and probabilistic properties in an arity-monotonic setting, *Fuzzy Sets and Systems* **264**, 2015, pp. 138-159.

• Papers in Edited Volumes and Proceedings

6. Gagolewski M., **Cena A.**, Bartoszuk M., *Hierarchical clustering via penalty-based aggregation and the Genie approach*, W: Torra V. i in. (red.), *Modeling Decisions for Artificial Intelligence (Lecture Notes in Artificial Intelligence 9880)*, Springer, 2016, pp. 191–202.
7. **Cena A.**, Gagolewski M., *Fuzzy k -minpen clustering and k -nearest-minpen classification procedures incorporating generic distance-based penalty minimizers*, W: Carvalho J.P. i in. (red.), *Information Processing and Management of Uncertainty in Knowledge-Based Systems, Part II (Communications in Computer and Information Science 611)*, Springer, 2016, pp. 445–456.
8. **Cena A.**, Gagolewski M., *Clustering and aggregation of informetric data sets*, In: Computational Methods in Data Analysis (*Proc. ITRIA '15 vol. 1*), IPI PAN, Warsaw, 2015, pp. 5–26.
9. **Cena A.**, Gagolewski M., *Aggregation and soft clustering of informetric data*, In: Baczyński M., De Baets B., Mesiar R. (Eds.), *Proc. 8th International Summer School on Aggregation Operators (AGOP 2015)*, University of Silesia, ISBN:978-83-8012-519-3, 2015, pp. 79-84.
10. **Cena A.**, Gagolewski M., *A K -means-like algorithm for informetric data clustering*, In: Alonso J.M., Bustince H., Reformat M. (Eds.), *Proc. IFSA/EUSFLAT 2015*, Atlantic Press, 2015, pp. 536-543.
11. **Cena A.**, Gagolewski M., *OM3: Ordered maxitive, minitive, and modular Aggregation Operators - Part II: A simulation study*, In: Bustince H. et al (Eds.), *Aggregation Functions in Theory and in Practise (AISC 228)*, Springer-Verlag, Heidelberg, 2013, pp. 105-115.
12. **Cena A.**, Gagolewski M., *OM3: ordered maxitive, minitive, and modular aggregation operators - Part I: Axiomatic analysis under arity-dependence*, In: Bustince H. et al (Eds.), *Aggregation Functions in Theory and in Practise (AISC 228)*, Springer-Verlag, Heidelberg, 2013, pp. 93-103.

5. Research grants, Honors

- National Science Centre (NCN), Poland, research project 2014/13/D/HS4/01700, Construction and analysis of methods of information resources producers' quality management, Systems Research Institute, Polish Academy of Sciences, co-investigator, 2015–2017.
- scholarship for academic achievements (2013/2014, 2014/2015)

6. Teaching Experience

- *Algorithms and Introduction to Programming in C++* (2016/2017), Faculty of Mathematics and Information Science
- *Probability and Statistics* (2014/2015, 2015/2016, 2016/2017), Warsaw School of Information Technology
- *Statistical Decision Support Methods* (2014/2015, 2015/2016), Warsaw School of Information Technology
- *Programming and Data Analysis in R* (2013/2014), Faculty of Mathematics and Information Science, WUT
- *Mathematical Statistics I* (2012/2013), Faculty of Mathematics and Information Science, WUT

7. Selected Courses

- Advanced Software Development Data Analysis with R, Institute of Computer Sciences PAS
- Introduction to Machine Learning, Institute of Computer Sciences PAS
- Advanced Topics in Machine Learning, Institute of Computer Sciences PAS
- Statistical Machine Learning, Institute of Computer Sciences PAS
- Biological Inspirations in Computational Intelligence Algorithms, Institute of Computer Sciences PAS
- Mining large data sets, Institute of Computer Sciences PAS
- Statistical Quality Control, Faculty of Mathematics and Information Science WUT