

1 Scientific Degrees

- 21.12.2011 Systems Research Institute, Polish Academy of Sciences
Ph.D. in computer science
Thesis title: *Aggregation operators and their application in a formal model for a quality evaluation system of scientific research*
Submitted for review: 06.2011
- 30.06.2008 Faculty of Mathematics and Information Science, Warsaw University of Technology
M.Sc. in computer science (with honors)
Thesis title: *Simulation of predator-prey behavior*
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2 Employment History

- 01.02.2012 – Systems Research Institute, Polish Academy of Sciences
Department of Stochastic Methods
Assistant Professor (permanent)
- 01.04.2012 – Faculty of Mathematics and Information Science, WUT
Department of Stochastic Processes and Financial Mathematics
Assistant Professor (part-time)
- 01.10.2008 –
– 29.02.2012 Faculty of Mathematics and Information Science, WUT
Department of Computer Science and Numerical Methods
Teaching & Research Assistant (part-time)
- 01.07.2008 –
– 31.01.2012 Systems Research Institute, Polish Academy of Sciences
Department of Stochastic Methods
Research Assistant
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3 Scientific Activities

3.1 Scientific Interests

- Complex data aggregation and fusion, prototype learning,
- Machine learning, data analysis and mining algorithms,
- Computational statistics, statistical software,
- Decision support, recommender, and expert systems, quality management.

3.2 Research Projects

1. 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, principal investigator, years 2015–2017.
2. Research task A4.1.2, Systems Research Institute, Polish Academy of sciences, *Data aggregation algorithms – theory and applications* (2014), *New algorithms for data aggregation and fusion* (2015), *Algorithms for data aggregation and fusion – theory and applications in decision making* (2016), *Construction and investigation of new methods for data aggregation and analysis* (2017) — principal investigator.

3.3 Scholarships & Awards

1. Ministry of Science and Higher Education, Poland, scholarship for outstanding young scientists (36 months), 2015.
2. Foundation for Polish Science (FNP), scholarship for young, talented researchers – START Program, 2013.
3. Warsaw University of Technology Rector’s Award of the first degree for scientific achievements, 2012.
4. Warsaw University of Technology Rector’s Award of the first degree for scientific achievements, 2010.
5. Ministry of Science and Higher Education, Poland, students’ scholarship for outstanding scientific achievements, academic year 2007/2008.

3.4 Short-term Research Visits

- 13.04.2015 – University of Ostrava
– 14.06.2015 Institute for Research and Applications of Fuzzy Modeling
Postdoctoral Research Fellow
- 01.03.2013 – Slovak University of Technology in Bratislava
– 30.06.2013 Department of Mathematics and Descriptive Geometry
Postdoctoral Research Fellow

3.5 Publications

Research Monographs

1. **Gagolewski M.**, *Data fusion: Theory, methods, and applications*, Institute of Computer Science, Polish Academy of Sciences, 2015, pp. 290, ISBN: 978-83-63159-20-7.

Textbooks

2. **Gagolewski 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.
3. **Gagolewski M.**, *Programowanie w języku R. Analiza danych, obliczenia, symulacje (R programming: Data analysis, computing & simulation)*, Wydawnictwo Naukowe PWN, 2014, 1st ed. – 2014, pp. 509, ISBN: 978-83-01-17461-3; 2nd ed., revised and extended – 2016, pp. 550, ISBN: 978-83-01-18939-6.
4. Grzegorzewski P., **Gagolewski M.**, Bobecka-Wesołowska K., *Wnioskowanie statystyczne z wykorzystaniem środowiska R (Statistical inference with R)*, Biuro ds. Projektu „Program Rozwojowy Politechniki Warszawskiej”, 2014, pp. 183, ISBN: 978-83-93-72601-1.

Edited Volumes

5. Ferraro M.B., Giordani P., Vantaggi B., **Gagolewski M.**, Gil M.Á., Grzegorzewski P., Hryniewicz O. (Eds.), *Soft methods for data science (Advances in Intelligent Systems and Computing 456)*, Springer, 2017, pp. 535, ISBN: 978-3-319-42971-7.
6. Grzegorzewski P., **Gagolewski M.**, Hryniewicz O., Gil M.Á., (Eds.), *Strengthening links between data analysis and soft computing, (Advances in Intelligent Systems and Computing 315)*, Springer, 2015, pp. 294, ISBN: 978-3-319-10764-6.

Journal Articles

7. **Gagolewski M.**, Penalty-based aggregation of multidimensional data, *Fuzzy Sets and Systems*, 2016, *IF 2.098*
doi:10.1016/j.fss.2016.12.009, in press.
8. Beliakov G., **Gagolewski M.**, James S., Penalty-based and other representations of economic inequality, *International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems* **24**(Suppl. 1), 2016, pp. 1–23. *IF 0.954*

9. **Gagolewski M.**, Bartoszuik M., Cena A., Genie: A new, fast, and outlier-resistant hierarchical clustering algorithm, *Information Sciences* **363**, 2016, pp. 8–23. IF 4.038
10. Mesiar R., **Gagolewski M.**, H-index and other Sugeno integrals: Some defects and their compensation, *IEEE Transactions on Fuzzy Systems* **24**(6), 2016, pp. 1668–1672. IF 8.746
11. Lasek J., Szlavik Z., **Gagolewski M.**, Bhulai S., How to improve a team’s position in the FIFA ranking – A simulation study, *Journal of Applied Statistics* **43**(7), 2016, pp. 1349–1368. IF 0.417
12. Żogała-Siudem B., Siudem G., Cena A., **Gagolewski M.**, Agent-based model for the h-index – Exact solution, *European Physical Journal B* **89**:21, 2016. IF 1.345
13. **Gagolewski M.**, Spread measures and their relation to aggregation functions, *European Journal of Operational Research* **241**(2), 2015, pp. 469–477. IF 2.358
14. Cena A., **Gagolewski M.**, Mesiar R., Problems and challenges of information resources producers’ clustering, *Journal of Informetrics* **9**(2), 2015, pp. 273–284. IF 2.412
15. Cena A., **Gagolewski 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. IF 1.986
16. **Gagolewski M.**, Mesiar R., Monotone measures and universal integrals in a uniform framework for the scientific impact assessment problem, *Information Sciences* **263**, 2014, pp. 166–174. IF 4.038
17. **Gagolewski M.**, Scientific impact assessment cannot be fair, *Journal of Informetrics* **7**(4), 2013, pp. 792–802. IF 3.580
18. Coroianu L., **Gagolewski M.**, Grzegorzewski P., Nearest piecewise linear approximation of fuzzy numbers, *Fuzzy Sets and Systems* **233**, 2013, pp. 26–51. IF 1.880
19. **Gagolewski M.**, On the relationship between symmetric maxitive, minitive, and modular aggregation operators, *Information Sciences* **211**, 2013, pp. 170–180. IF 3.893
20. **Gagolewski M.**, Mesiar R., Aggregating different paper quality measures with a generalized *h*-index, *Journal of Informetrics* **6**(4), 2012, pp. 566–579. IF 4.153
21. **Gagolewski M.**, Grzegorzewski P., Possibilistic analysis of arity-monotonic aggregation operators and its relation to bibliometric impact assessment of individuals, *International Journal of Approximate Reasoning* **52**(9), 2011, pp. 1312–1324. IF 1.948
22. **Gagolewski M.**, Bibliometric impact assessment with R and the *CITAN* package, *Journal of Informetrics* **5**(4), 2011, pp. 678–692. IF 4.153
23. **Gagolewski M.**, Grzegorzewski P., A geometric approach to the construction of scientific impact indices, *Scientometrics* **81**(3), 2009, pp. 617–634. IF 2.167

Papers in Edited Volumes and Proceedings

24. **Gagolewski M.**, James S., *Fitting symmetric fuzzy measures for discrete Sugeno integration*, In: *Proc. EUSFLAT’17*, 2017, in press.
25. Bartoszuik M., **Gagolewski M.**, *Binary aggregation functions in software plagiarism detection*, In: *Proc. FUZZ-IEEE’17*, 2017, in press.
26. Cena A., **Gagolewski M.**, *OWA-based linkage and the Genie correction for hierarchical clustering*, In: *Proc. FUZZ-IEEE’17*, 2017, in press.
27. **Gagolewski M.**, Cena A., Bartoszuik M., *Hierarchical clustering via penalty-based aggregation and the Genie approach*, In: Torra V. et al. (Eds.), *Modeling Decisions for Artificial Intelligence (Lecture Notes in Artificial Intelligence 9880)*, Springer, 2016, pp. 191–202.
28. Bartoszuik M., Beliakov G., **Gagolewski M.**, James S., *Fitting aggregation functions to data: Part I – Linearization and regularization*, In: Carvalho J.P. et al. (Eds.), *Information Processing and Management of Uncertainty in Knowledge-Based Systems, Part II (Communications in Computer and Information Science 611)*, Springer, 2016, pp. 767–779.

29. Bartoszuik M., Beliakov G., **Gagolewski M.**, James S., *Fitting aggregation functions to data: Part II – Idempotization*, In: Carvalho J.P. et al. (Eds.), *Information Processing and Management of Uncertainty in Knowledge-Based Systems, Part II (Communications in Computer and Information Science 611)*, Springer, 2016, pp. 780–789.
30. Cena A., **Gagolewski M.**, *Fuzzy k -minpen clustering and k -nearest-minpen classification procedures incorporating generic distance-based penalty minimizers*, In: Carvalho J.P. et al. (Eds.), *Information Processing and Management of Uncertainty in Knowledge-Based Systems, Part II (Communications in Computer and Information Science 611)*, Springer, 2016, pp. 445–456.
31. Lasek J., **Gagolewski M.**, *The winning solution to the AAIA'15 Data Mining Competition: Tagging firefighter activities at a fire scene*, In: Ganzha M. et al. (Eds.), *Proc. FedCSIS'15*, IEEE, 2015, pp. 375–380.
32. Bartoszuik M., **Gagolewski M.**, *Detecting similarity of R functions via a fusion of multiple heuristic methods*, In: Alonso J.M. et al. (Eds.), *Proc. IFSA-EUSFLAT 2015*, Atlantis Press, 2015, pp. 484–491.
33. **Gagolewski M.**, *Normalized WD_p WAM and WD_p OWA spread measures*, In: Alonso J.M. et al. (Eds.), *Proc. IFSA-EUSFLAT 2015*, Atlantis Press, 2015, pp. 210–216.
34. Cena A., **Gagolewski M.**, *A k -means-like algorithm for informetric data clustering*, In: Alonso J.M. et al. (Eds.), *Proc. IFSA-EUSFLAT 2015*, Atlantis Press, 2015, pp. 536–543.
35. **Gagolewski M.**, Lasek J., *Learning experts' preferences from informetric data*, In: Alonso J.M. et al. (Eds.), *Proc. IFSA-EUSFLAT 2015*, Atlantis Press, 2015, pp. 484–491.
36. **Gagolewski M.**, *Some issues in aggregation of multidimensional 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. 127–132.
37. 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.
38. **Gagolewski M.**, Lasek J., *The use of fuzzy relations in the assessment of information resources producers' performance*, In: Filev D. et al. (Eds.), *Proc. 7th IEEE International Conference Intelligent Systems IS'2014, Vol. 2: Tools, Architectures, Systems, Applications (Advances in Intelligent Systems and Computing 323)*, Springer, 2015, pp. 289–300.
39. **Gagolewski M.**, *Sugeno integral-based confidence intervals for the theoretical h -index*, In: Grzegorzewski P. et al. (Eds.), *Strengthening Links Between Data Analysis and Soft Computing (Advances in Intelligent Systems and Computing 315)*, Springer, 2015, pp. 233–240.
40. Bartoszuik M., **Gagolewski M.**, *A fuzzy R code similarity detection algorithm*, In: Laurent A. et al. (Eds.), *Information Processing and Management of Uncertainty in Knowledge-Based Systems, Part III (Communications in Computer and Information Science 444)*, Springer, 2014, pp. 21–30.
41. Coroianu L., **Gagolewski M.**, Grzegorzewski P., Adabitarbar Firozja M., Houlari T., *Piecewise linear approximation of fuzzy numbers preserving the support and core*, In: Laurent A. et al. (Eds.), *Information Processing and Management of Uncertainty in Knowledge-Based Systems, Part II (Communications in Computer and Information Science 443)*, Springer, 2014, pp. 244–254.
42. 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 (Advances in Intelligent Systems and Computing 228)*, Springer, 2013, pp. 93–103.
43. 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 (Advances in Intelligent Systems and Computing 228)*, Springer, 2013, pp. 105–115.
44. **Gagolewski M.**, *Statistical hypothesis test for the difference between Hirsch indices of two Pareto-distributed random samples*, In: Kruse R. et al. (Eds.), *Synergies of Soft Computing and Statistics for Intelligent Data Analysis (Advances in Intelligent Systems and Computing 190)*, Springer, 2013, pp. 359–367.
45. **Gagolewski M.**, *On the relation between effort-dominating and symmetric minitive aggregation operators*, In: Greco S. et al. (Eds.), *Advances in Computational Intelligence, Vol. III (Communications in Computer and Information Science 299)*, Springer, 2012, pp. 276–285.

46. **Gagolewski M.**, Grzegorzewski P., *Axiomatic characterizations of (quasi-) L-statistics and S-statistics and the Producer Assessment Problem*, In: Galichet S. et al. (Eds.), *Proc. 7th conf. European Society for Fuzzy Logic and Technology EUSFLAT-LFA 2011*, Atlantis Press, 2011, pp. 53–58.
47. **Gagolewski M.**, Grzegorzewski P., *S-Statistics and their basic properties*, In: Borgelt C. et al. (Eds.), *Combining Soft Computing and Statistical Methods in Data Analysis (Advances in Intelligent and Soft Computing 77)*, Springer, 2010, pp. 281–288.
48. **Gagolewski M.**, Grzegorzewski P., *Arity-monotonic extended aggregation operators*, In: Hüllermeier E., Kruse R., Hoffmann F. (Eds.), *Information Processing and Management of Uncertainty in Knowledge-Based Systems (Communications in Computer and Information Science 80)*, Springer, 2010, pp. 693–702.
49. **Gagolewski M.**, Grzegorzewski P., *Possible and necessary h-indices*, In: *Proc. IFSA World Congress and EUSFLAT Conference (IFSA/EUSFLAT 2009)*, Lisbon, Portugal, ISBN:978-989-95079-6-8, 2009, pp. 1691–1695.

Other Peer-Reviewed Papers

50. Lasek J., **Gagolewski M.**, *Estimation of tournament metrics for association football league formats*, In: *Selected problems in information technologies (Proc. ITRIA'15 vol. 2)*, Institute of Computer Science, Polish Academy of Sciences, 2015, pp. 67–78.
51. Cena A., **Gagolewski M.**, *Clustering and aggregation of informetric data sets*, In: *Computational methods in data analysis (Proc. ITRIA'15 vol. 1)*, Institute of Computer Science, Polish Academy of Sciences, 2015, pp. 5–26.
52. **Gagolewski M.**, Dębski M., Nowakiewicz M., *Efficient algorithm for computing certain graph-based monotone integrals: The l_p -indices*, In: Mesiar R., Bacigal T. (Eds.), *Proc. Uncertainty Modelling*, 2013, STU Bratislava, ISBN:978-80-227-4067-8, 2013, pp. 17–23.
53. Rowiński T., **Gagolewski M.**, *Internet a kryzys*, In: Jankowska M., Starzomska M. (Eds.), *Kryzys: Pułapka czy szansa?*, WN Akapit, 2011, pp. 211–224.
54. **Gagolewski M.**, Grzegorzewski P., *Metody i problemy naukometrii*, In: Rowiński T., Tadeusiewicz R. (Eds.), *Psychologia i informatyka. Synergia i kontradycje*, Wyd. UKSW, Warszawa, 2010, pp. 103–125.
55. **Gagolewski M.**, Grzegorzewski P., *O pewnym uogólnieniu indeksu Hirscha*, In: Kawalec P., Lipski P. (Eds.), *Kadry i infrastruktura nowoczesnej nauki: teoria i praktyka*, Vol. II, 1st International Conference on “Scientific Management”, Lublin, Poland, 20–22.11.2009, pp. 15–29.
56. Rowiński T., **Gagolewski M.**, *Preferencje i postawy wobec pomocy online*, *Studia Psychologica UKSW* 7, 2007, pp. 195–210.

3.6 Talks (Conferences, Seminars, etc.)

Invited Plenary Lectures

1. *t.b.a.*, 14th International Conference on Fuzzy Set Theory and Applications – FSTA 2018, Liptovský Ján, Slovakia, 28.01–02.02.2018, planned.
2. *Aggregation of multidimensional data: A review*, 9th International Summer School on Aggregation Operators – AGOP 2017, Skövde, Sweden, 19–22.06.2017, planned.
3. *Penalty-based fusion of complex data, computational aspects, and applications*, International Symposium on Aggregation and Structures – ISAS 2016, University of Luxembourg, 06.07.2016.

Other Invited

4. *stringi package for R*, Text Analysis R Developers' Workshop, London School of Economics, London, England, 21–22.04.2017.
5. *Genie: A new, fast, and outlier-resistant hierarchical clustering algorithm and its R interface*, European R Users Meeting, Poznań, Poland, 14.10.2016.
6. *Can the scientific assessment process be fair?*, Workshop on Research Evaluation, Free University of Bozen-Bolzano, Italy, 10.05.2013.

Seminars

7. *Genie: Nowy, szybki i odporny algorytm analizy skupień*, Seminarium IBS PAN, Warszawa, Poland, 23.05.2017.
8. *Agregacja danych: Teoria, metody i zastosowania*, Wykład dla słuchaczy Studiów Doktoranckich IBS PAN, Warszawa, Poland, 05.03.2016.
9. $^(R|ICU|i18n|regex)+\$,$ Seminarium Matematyczne Metody Informatyki, Instytut Matematyki, University of Silesia, Katowice, Poland, 20.04.2015.
10. *Data aggregation from an algorithmic perspective*, IRAFM Seminar, University of Ostrava, Czech Republic, 04.06.2015.
11. *Indeks Hirscha i okolice*, Seminarium CeON, ICM UW, Warsaw, Poland, 12.03.2014.
12. *Scientific impact assessment – State of the art: Agregáčné funkcie: teória a aplikácie (Aggregation functions: theory and applications)*, Seminár z modelovania neurčitosti, Katedra matematiky a deskriptívnej geometrie, SvF STU, Bratislava, Slovakia, 17.04.2013.

Conference Talks

13. *Binary aggregation functions in software plagiarism detection*, IEEE FUZZ'17, Naples, Italy, 9–12.07.2017, planned.
14. *Binary aggregation functions in software plagiarism detection*, 3rd Intl. Symp. on Fuzzy Sets and Uncertainty Modeling (ISFS 2017), Rzeszów, Poland, 19–20.05.2017.
15. *Hierarchical clustering via penalty-based aggregation and the Genie approach*, 13th International Conference on Modeling Decisions for Artificial Intelligence (MDAI), Sant Julià de Lòria, Andorra, 20.09.2016.
16. *Fitting aggregation functions to data: Part I – Linearization and regularization*, 16th International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems (IPMU), Eindhoven, The Netherlands, 23.06.2016.
17. *Some issues in aggregation of multidimensional data*, 8th International Summer School on Aggregation Operators (AGOP), Katowice, Poland, 07.07.2015.
18. *Normalized WD_p WAM and WD_p OWA spread measures*, IFSA/EUSFLAT 2015, Gijon, Spain, 02.07.-2015.
19. *Sugeno integral-based confidence intervals for the theoretical h-index*, 7th International Conference on Soft Methods in Probability and Statistics (SMPS), Warsaw, Poland, 24.09.2014.
20. *OM3: Ordered maxitive, minitive, and modular aggregation operators – Part I: Axiomatic analysis under arity-dependence*, 7th International Summer School on Aggregation Operators (AGOP), Pamplona, Spain, 16–19.07.2013.
21. *Statistical hypothesis test for the difference between Hirsch indices of two Pareto-distributed random samples*, 6th International Conference on Soft Methods in Probability and Statistics (SMPS), Konstanz, Germany, 04–06.10.2012.
22. *On the relation between effort-dominating and symmetric minitive aggregation operators*, 14th International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems (IPMU), Catania, Italy, 09–13.07.2012.
23. *Porównanie wybranych estymatorów teoretycznego indeksu Hirscha*, XXXVII Konferencja Statystyka Matematyczna, Wisła, Poland, 05–09.12.2011.
24. *Axiomatic characterizations of (quasi-) L-statistics and S-statistics and the Producer Assessment Problem*, 7th International Conference on EUSFLAT/LFA, Aix-Les-Bains, France, 18–22.07.2011.
25. *Podstawowe właściwości S-statystyk*, XXXVI Konferencja Statystyka Matematyczna, Wisła, Poland, 06–10.12.2010.
26. *S-Statistics and their basic properties*, 5th International Conference on Soft Methods in Probability and Statistics (SMPS), Oviedo, Spain, 28.09–01.10.2010.

27. *Arity-monotonic extended aggregation operators*, 13th International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems (IPMU), Dortmund, Germany, 28.06–02.07.2010.
28. *Uogólniony indeks Hirscha a dwupróbkowe testy dla rodziny rozkładów Pareto II rodzaju*, XXXV Konferencja Statystyka Matematyczna, Wisła, Poland, 07–11.12.2009.
29. *O pewnym uogólnieniu indeksu Hirscha*, 1st International Conference on “Scientific Management”, Lublin, Poland, 20–22.11.2009.
30. *Possible and necessary h-indices*, 6th International Conference on IFSA/EUSFLAT, Lisbon, Portugal, 20–24.07.2009.

3.7 Ph.D. Students

I am the scientific adviser of the following Ph.D. students:

1. Maciej Bartoszek, M.Sc.,
2. Anna Cena, M.Sc.,
3. Jan Lasek, M.Sc.,
4. Łukasz Śliwa, M.Sc.

4 Teaching Activities

4.1 Faculty of Mathematics and Information Science, WUT

- Courses:

2016–	Data Processing in R and Python
2015–	Data Processing and Analysis in Python
2012–	Programming and Data Analysis in R
2010–2016	Algorithms and Introduction to Programming
2014	Advanced R Programming
2009–2012	Mathematical Statistics I
2008–2013	Computer Statistics
2010–2011	Programming in x86 Assembler
2008–2011	Algorithms and Data Structures II
2007–2011	Object-oriented Programming in C++

- Vice-chairman of the Program Commission for the Data Science (Polish: *Inżynieria i analiza danych*) curriculum, Faculty of Mathematics and Information Science, Warsaw University of Technology (since 2016).
- Scientific supervisor of the *Data Science* students association, Warsaw University of Technology (since 2014).
- Warsaw University of Technology Rector’s Award of the third degree for teaching achievements, 2015.
- Scientific supervisor of 13 B.Sc. and M.Sc. theses in Mathematics and Computer Science (22 students):

2016/2017	<i>13. Implementacja systemu generowania dynamicznych raportów opartych na jądrach Jupyter (Dynamic Report Generation based on Jupyter Kernels)</i> FMIS WUT, Computer Science, M.Sc.
2015/2016	<i>12. Automatyczna kategoryzacja tematyczna tekstów przy użyciu metryk w przestrzeni ciągów znaków (Text clustering based on string metrics)</i> FMIS WUT, Mathematics, M.Sc.

- 2015/2016 *11. Mobilny asystent komiwojażera oparty na platformie Salesforce i Google API (Mobile salesman assistant based on the Salesforce platform and Google API)*
FMIS WUT, Computer Science, M.Sc.
- 2014/2015 *10. Konstrukcja systemu rekomendacyjnego opartego na automatycznym modelowaniu tematyki danych tekstowych przy użyciu metody LDA (A text topic modeling-based recommender system utilizing the Latent Dirichlet Allocation method)*
FMIS WUT, Mathematics, M.Sc.
- 2014/2015 *9. New methods for calculating optimal safety stocks at Procter&Gamble*
FMIS WUT, Mathematics, M.Sc.
- 2014/2015 *8. Agregacja informacji na temat pakietów dla środowiska R – interfejs WWW (Aggregation of data on R packages – a Web interface)*
FMIS WUT, Computer Science, B.Sc.
- 2013/2014 *7. Ciągła integracja w inżynierii oprogramowania (Continuous integration in software engineering)*
FMIS WUT, Computer Science, M.Sc.
- 2012/2013 *6. Podstawowe działania w logice rozmytej: t-normy, t-konormy, negacje i implikacje rozmyte (Basic fuzzy logic operations: t-norms, t-conorms, fuzzy negations and implications)*
FMIS WUT, Mathematics, B.Sc.
- 2012/2013 *5. Cyfrowe przetwarzanie sygnałów audio na przykładzie implementacji efektów gitarowych (Digital audio processing: Implementing guitar effects)*
FMIS WUT, Computer Science, B.Sc.
- 2010/2011 *4. Badania kwestionariuszowe w naukach społecznych – moduł dla systemu Drupal (A Drupal module for conducting questionnaire surveys in the Social Sciences)*
FMIS WUT, Computer Science, B.Sc.
- 2010/2011 *3. Drupal and R for Research in the Social Sciences*
FMIS WUT, Computer Science, B.Sc.
- 2010/2011 *2. Implementacja gry Blokus (An implementation of the Blokus game)*
FMIS WUT, Computer Science, B.Sc.
- 2009/2010 *1. Naukometryczne wskaźniki na poziomie indywidualnym oparte na analizie cytowań (Citation-based bibliometric impact indices)*
FMIS WUT, Computer Science, B.Sc.

4.2 Warsaw School of Information Technology

- Courses:

- 2009–2011 Statistical Decision Support Methods
2008–2010 Probability and Statistics

4.3 Institute of Computer Science, Polish Academy of Sciences

- Courses:

- 2014–2015 Advanced Data Analysis Software Development in R
(e-learning course, Interdisciplinary PhD studies program
– 3 batches)

4.4 Short Courses and Other Teaching Activities

- Courses:

- 05.2017 NumPy, Pandas, Advanced Python Data Science Retreat,
Berlin (Batch 10)

01.2017	NumPy, Pandas, Advanced Python	Data Science Retreat, Berlin (Batch 09)
09.2016	Advanced Python, Data Structures and Algorithms for Data Science	Data Science Retreat, Berlin (Batch 08)
05.2016	Deep dive into R, Speeding up R and Python, Data Structures and Algorithms for Data Science	Data Science Retreat, Berlin (Batch 07)
02.2016	Speeding up R and Python, Data Structures and Algorithms for Data Science	Data Science Retreat, Berlin (Batch 06)
10.2015	Deep dive into R, Speeding up R and Python	Data Science Retreat, Berlin (Batch 05)
06.2015	Intro to R, Advanced R, Rcpp	Data Science Retreat, Berlin (Batch 04)
06.2015	String processing, Good Development Practices in R, Rcpp	GfK, Berlin
06.2015	Intro to R for Researchers	IRAFM, Ostrava
02.2015	Intro to R, Advanced R, Rcpp	Data Science Retreat, Berlin (Batch 03)
08.2014	Intro to R, Advanced R	Data Science Retreat, Berlin (Batch 02)
07.2014	Rcpp	Data Science Retreat, Berlin (Batch 01)
02.2014	Introduction to Data Analysis with R	Business Analytics, WUT
10.2013	Introduction to R	Business Analytics, WUT

5 Other Activities

- Member of the Scientific Council, Systems Research Institute, Polish Academy of Sciences (elected twice, 2011–2014 and 2015–2018).
- Member of the following professional organizations:
 1. *Foundation for Open Access Statistics*,
 2. *European Society for Fuzzy Logic and Technology*.
- Scientific program committee member for:
 1. 17th World Congress of International Fuzzy Systems Association and 9th International Conference on Soft Computing and Intelligent Systems (IFSA/SCIS 2017), Otsu, Japan,
 2. International Symposium on Aggregation and Structures (ISAS 2016), Luxembourg,
 3. 16th World Congress of the International Fuzzy Systems Association and 9th Conference of the European Society for Fuzzy Logic and Technology (IFSA/EUSFLAT 2015), Gijon, Spain.
- Guest editor for:
 1. *Data Mining and Knowledge Discovery* – Special Issue *Sport Analytics*.
- Special session organizer at:
 1. 10th Conference of the European Society for Fuzzy Logic and Technology (EUSFLAT 2017), Warsaw, Poland – Special Session *Algorithms for Data Aggregation and Fusion*,
 2. 16th International Conference on Information Processing and Management of Uncertainty in Knowledge-Based Systems (IPMU 2016), Eindhoven, The Netherlands – Special Session *Computational Aspects of Data Aggregation and Complex Data Fusion*.
- Organizing committee member for:

1. 10th Conference of the European Society for Fuzzy Logic and Technology (EUSFLAT 2017), Warsaw, Poland – Stream on Data Analysis Coordinator,
 2. 8th International Conference Soft Methods in Probability and Statistics (SMPS 2016), Rome, Italy,
 3. 8th International Summer School on Aggregation Operators (AGOP 2015), Katowice, Poland,
 4. 7th International Conference Soft Methods in Probability and Statistics – SMPS 2014, Warsaw, Poland,
 5. 37th Conference *Statystyka Matematyczna – Wiśła 2011*, Poland.
- Peer-reviewer for the following international journals (107 reviews written):
 1. *ACM Transactions on Mathematical Software* (3),
 2. *Afrika Mathematica* (1),
 3. *Data Mining and Knowledge Discovery* (2),
 4. *Demonstratio Mathematica* (1),
 5. *European Journal of Operational Research* (6),
 6. *Fuzzy Optimization and Decision Making* (1),
 7. *Fuzzy Sets and Systems* (15),
 8. *Group Decision and Negotiation* (1),
 9. *IEEE Transactions on Fuzzy Systems* (25),
 10. *Information Fusion* (2),
 11. *Information Sciences* (23),
 12. *International Journal of Approximate Reasoning* (1),
 13. *International Journal of Computational Intelligence Systems* (1),
 14. *International Journal of Uncertainty, Fuzziness and Knowledge-Based Systems* (3),
 15. *Journal of Engineering Education* (1),
 16. *Journal of Informetrics* (2),
 17. *Journal of Intelligent and Fuzzy Systems* (3),
 18. *Journal of the American Society for Information Science and Technology* (7),
 19. *Scientometrics* (9),

and international conferences (37 reviews written; IFSA/EUSFLAT 2009, IPMU 2010, IPMU 2012, SMPS 2014, EUSFLAT 2015, IPMU 2016, ISAS 2016, SMPS 2016, EUSFLAT 2017, IFSA/SCIS 2017).

6 Software

- Google *Summer of Code 2016* – Mentor;
Project: *RE2 Regular Expressions in R*;
Student: Qin Wenfeng.
- Author of open source R packages:
 1. *stringi* (<http://cran.r-project.org/package=stringi>)
– one of the most often downloaded R packages (over 5M downloads),
 2. *genie* (<http://cran.r-project.org/package=genie>),
 3. *FuzzyNumbers* (<http://cran.r-project.org/package=FuzzyNumbers>),
 4. *agop* (<http://cran.r-project.org/package=agop>),
 5. *CITAN* (<http://cran.r-project.org/package=CITAN>),
 6. *TurtleGraphics* (<http://cran.r-project.org/package=TurtleGraphics>).