

Scientific activities

„Computer Science is no more about computers than astronomy is about telescopes.”

Edsger W. Dijkstra, computer science professor

Conference committees member, session charing etc.

1. PC Member [KES AMSTA 2022](#), International KES Conference on Agents and Multi-agent Systems – Technologies and Applications
2. PC Member [KES 2021](#), 25nd Annual KES Conference on Knowledge-Based and Intelligent Information & Engineering Systems
3. PC Member [KES AMSTA 2021](#), International KES Conference on Agents and Multi-agent Systems – Technologies and Applications
4. PC Member [DEMSME 2021](#), International conference on decision making for small and medium-sized enterprises ([invitation](#))
5. PC Member [KES 2020](#), 24nd Annual KES Conference on Knowledge-Based and Intelligent Information & Engineering Systems
6. PC Member [KES AMSTA 2020](#), International KES Conference on Agents and Multi-agent Systems – Technologies and Applications
7. PC Member of Complex Collective Systems Workshop of [PPAM 2019](#), [CCS Workshop](#) 13th International Conference on Parallel Processing and Applied Mathematics
8. PC Member [SDF 2019](#), Smart Digital Features 2019
9. PC Member [KES 2019](#), 23nd Annual KES Conference on Knowledge-Based and Intelligent Information & Engineering Systems
10. PC Member, Invited speaker [DEMSME 2019](#), Decision making for small and medium-sized enterprises
11. PC Member [KES AMSTA 2019](#), International KES Conference on Agents and Multi-agent Systems – Technologies and Applications
12. PC Member [IEEE BIBE 2018](#), The 18th IEEE International Conference on Bioinformatics and BioEngineering, Taiwan, October 29 - 31, 2018
13. PC Member [SIMPAN 2018](#), IEEE International Conference on Simulation, Modeling, and Programming for Autonomous Robots, Brisbane, Australia, 16-19 May 2018
14. PC Member [AAMAS 2018](#), International Conference on Autonomous Agents and Multiagent Systems, Stockholm, Sweden, July 10-15, 2018
15. PC Member [KES 2018](#), 22nd Annual KES Conference on Knowledge-Based and Intelligent Information & Engineering Systems
16. PC Member [KES AMSTA 2018](#), International KES Conference on Agents and Multi-agent Systems – Technologies and Applications
17. PC Member of Complex Collective Systems Workshop of [PPAM 2017](#), [CCS Workshop](#) 12th International Conference on Parallel Processing and Applied Mathematics
18. PC Member of [Forum Innowacyjnych Technologii](#) , 2017
19. PC Member [KES 2017](#), 21th International Conference on Knowledge-Based and Intelligent Information & Engineering Systems
20. PC Member [ICRC 2017](#), IEEE International Conference on Robotic Computing
21. PC Member [KES AMSTA 2017](#), International KES Conference on Agents and Multi-agent Systems – Technologies and Applications

22. PC Member [SIMPAR 2016](#) IEEE International Conference on Simulation, Modeling, and Programming for Autonomous Robots, San Francisco, USA, 2016
23. Session chair at [EURO 2016](#), 28th European Conference on Operational Research, special session: *AHP and Beyond* chaired together with [Matteo Brunelli](#)
24. PC Member [KES 2016](#), 20th International Conference on Knowledge-Based and Intelligent Information & Engineering Systems
25. PC Member [KES AMSTA 2016](#), 11th International KES Conference on Agents and Multi-agent Systems – Technologies and Applications
26. PC Member of Complex Collective Systems Workshop of [PPAM 2015](#), [CCS Workshop](#) 11th International Conference on Parallel Processing and Applied Mathematics
27. PC Member [KES 2015](#), 19th International Conference on Knowledge-Based and Intelligent Information & Engineering Systems
28. PC Member [KES AMSTA 2015](#), 9th International KES Conference on Agents and Multi-agent Systems – Technologies and Applications
29. Associate Editor [IROS 2014](#) (Conference Paper Review Board member)
30. PC Member [SIMPAR 2014](#), 4th International Conference on SIMULATION, MODELING, and PROGRAMMING for AUTONOMOUS ROBOTS
31. PC Member [KES AMSTA 2014](#), 8th International KES Conference on Agents and Multi-agent Systems – Technologies and Applications
32. Co-Chair [KES 2014](#), [IS13](#), KES 2014 Invited Session, Modeling with Qualitative and Quantitative Pairwise Comparisons
33. PC Member [KES 2014](#), 18th International Conference on Knowledge-Based and Intelligent Information & Engineering Systems
34. Reviewer at [ICRA 2014](#), IEEE International conference on Robotics and Automation 2014
35. PC Member [ICBR 2013](#), The 2013 International Conference on Individual and Collective Behaviors in Robotics
36. Reviewer (and PC Member of Complex Collective Systems Workshop) of [PPAM 2013](#) 10th International Conference on Parallel Processing and Applied Mathematics
37. Associate Editor (Conference Paper Review Board member) of [IROS 2013](#)
38. PC Member, Reviewer of [KES AMSTA 2013](#) 7th International KES Conference on Agents and Multi-agent Systems - Technologies and Applications
39. PC Member, Reviewer, Session Char of [SIMPAR 2012](#) SIMULATION, MODELING, and PROGRAMMING for AUTONOMOUS ROBOTS
40. PC Member of Complex Collective Systems Workshop at [PPAM 2011](#) 9th International Conference on Parallel Processing and Applied Mathematics

Editorials

- Guest Editor of [Fundamenta Informaticae](#)
(editorial to download)
- Topic Editor of [Mathematics](#) (MDPI)
(certificate to download)

Reviewing

„A wise man once gave the following advice: spend the most time refereeing the best papers. If a paper is awful, please don't spend a great deal of time on it. If a paper is good, please do spend a

little time to make it better.”

Taken from [JFP Advice for Referees](#)

I made over one hundred scientific reviews, most of them for scientific journals having impact factor. The journals for which I had a honor and pleasure to make reviews are listed below (the list may not be complete):

1. [European Journal of Operational Research](#) (EJOR)
2. [Journal of Multi-Criteria Decision Analysis](#) (JMCD)
3. [Asia-Pacific Journal of Operational Research](#) (APJOR)
4. [Journal of Operational Research Society](#) (JORS)
5. [Omega - The International Journal of Management Science](#)
6. [Expert Systems With Applications](#) (ESWA)
7. [Fundamenta Informaticae](#) journal (FI)
8. [Group Decision and Negotiation](#) (GDN)
9. [International Journal of Approximate Reasoning](#) (IJAR)
10. [Applied Soft Computing](#), The Official Journal of the World Federation on Soft Computing (WFSC)
11. [Computing and Informatics](#) journal (CaI)
12. [SIMULATION: Transactions of The Society for Modeling and Simulation International](#) journal
13. [Journal of Computational Science](#) (JoCS)
14. [Neurocomputing](#) journal
15. [Computing in Science & Engineering](#) (CS&E)
16. [IEEE Access](#) journal
17. [Scientometrics](#)
18. [Journal of Business Research](#) (BURE)
19. [International Journal of Industrial Engineering: Theory, Applications and Practice](#) (IJETAP)
20. [Organizacija](#) journal
21. [KES Journal](#)
22. [International Journal of Management and Decision Making](#)
23. [Bulletin of the Polish Academy of Sciences \(Technical Sciences\)](#)
24. [Folia Oeconomica, Acta Universitas Lodzensis](#)
25. [MCDM Journal, University of Economics in Katowice](#)

Other important non-journal reviews

1. [Mathematical Reviews](#) Journal of [American Mathematical Society](#)
2. MSc dissertation [external reviewer](#), [Laurentian University](#), Ontario, Canada
3. [PPAM 2009](#) 8th International Conference on Parallel Processing and Applied Mathematics
4. [Habilitation review](#) of dr inż. Miłosz Kadziński's scientific achievements
5. Book review of [Niespójność osądów w analitycznym procesie hierarchicznym](#) by Anna Prusak

Recognition, Awards, Service



(April 2019) Reviewer of [Omega - The International Journal of Management Science](#) (Omega)

(certificate to download)



(October 2018) Outstanding Reviewer of [European Journal of Operational Research](#) (EJOR)

(certificate to download)



(August 2018) Recognized Reviewer of [Applied Soft Computing Journal](#) (ASCJ)

(certificate to download)



(September 2017) Outstanding Reviewer of [International Journal of Approximate Reasoning](#) (IJAR)

(certificate to download)



(September 2017) Outstanding Reviewer of [Applied Soft Computing Journal](#) (ASCJ)

(certificate to download)



(June 2017) Recognized Reviewer of [International Journal of Approximate Reasoning](#) (IJAR)

(certificate to download)



(November 2016) Recognized Reviewer of [Expert Systems With Applications](#) (ESWA)

(certificate to download)



(November 2016) Outstanding Reviewer of [European Journal of Operational Research](#) (EJOR)

(certificate to download)



(October 2016) Outstanding Reviewer of [International Journal of Approximate Reasoning](#) (IJAR)

(certificate to download)



(October 2016) Recognized Reviewer of [European Journal of Operational Research](#) (EJOR)

(certificate to download)



(August 2016) Recognized Reviewer of [Applied Soft Computing Journal](#) (ASCJ)

(certificate to download)



(June 2016) Recognized Reviewer of [International Journal of Approximate Reasoning](#) (IJAR)

(certificate to download)



(March 2015) Recognized Reviewer of [Journal of Computational Science](#) (JCS)

(certificate to download)



I review for: 'European Journal of Operational Research'

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Misc

- [How to peer review - Springer Online Manual](#)
- [Editorial: How to Get Your Paper Rejected from STVR by Jeff Offutt \(special thanks for Prof. Radosław Klimek for sharing this URL\)](#)
- [Editorial: How to Get Your Paper Rejected from STVR by Jeff Offutt \(Official version\)](#)

Memberships

- Member of [IEEE](#) (Institute of Electrical and Electronics Engineers)
- Member of [International Society on MCDM](#) (Multiple Criteria Decision Making)
- Member of [POSRS](#) (Polish Operational and Systems Research Society)
- Founder-member of [PAIS](#) (Polish Artificial Intelligence Society)
- Bronze Member of [KES International](#), Society of Artificial Intelligence

Public presentations, conferences

1. K. Kułakowski *Ranking methods for incomplete PC matrices*, presentation at The 92nd Meeting of EURO Working Group on Multicriteria Decision Aiding, Cracow, Poland, September 16-18, 2021 ([cert. of attendance](#))
2. K. Kułakowski, J. Mazurek and M. Strada *Similarity of ranking vectors in the pairwise*

- comparisons method*, presentation at [Hybrid EURO 2021 conference](#), Athens, Greece, 2021 ([cert. of attendance](#))
3. K. Kułakowski, A. Kędzior, *Heuristic Rating Estimation in the Multi-Criteria Decision Making Process*, presentation at [International Workshop on Multiple Criteria Decision Making](#), 2021 ([cert. of attendance](#))
 4. K. Kułakowski, *Introduction to pairwise comparisons*, presentation at [KES 2019 conference](#), Budapest, Hungary
 5. K. Kułakowski, *Quantification of incompleteness in the PC method*, presentation at [EURO 2019 conference](#) 30th European Conference On Operational Research, Dublin, Ireland
 6. K. Kułakowski, *Inconsistency of Incomplete Pairwise Comparisons Matrices*, presentation at [MCDM 2019 conference](#) Conference on Multiple Criteria Decision-Making, Istanbul, Turkey
 7. K. Kułakowski, *Heuristic rating estimation as a way of ranking prediction based on comparing alternatives in pairs* keynote lecture at [DEMSME 2019](#) - Decision making for small and medium-sized enterprises ([cert. of invited talk](#)), Czech Republic
 8. K. Kułakowski, A. Prusak, J. Szybowski *Indices of incompleteness for the pairwise comparisons method* 89th Meeting of the European Working Group on Multiple Criteria Decision Aiding ([EWG/MCDA](#)) ([certificate of attendance](#)), Italy
 9. K. Kułakowski, A. Prusak, J. Szybowski *Incompleteness in the Pairwise Comparisons Method and Its Impact to Sensitivity*, International Workshop on Multiple Criteria Decision Making '19, [IWoMCDM](#), Ustroń, Poland, 2019
 10. K. Kułakowski, *Inconsistency and Condition of Order Preservation* - public lecture at [2018 International Conference on Management and Operations Research](#), China, July 7-9, 2018
 11. K. Kułakowski, *Ordinal pairwise comparisons with and without ties* - public lecture at [International Symposium on the Analytic Hierarchy Process](#), July 12 - 15, 2018, Hong Kong, HK
 12. K. Kułakowski, *Cardinal and ordinal inconsistency in the pairwise comparisons matrix* - presentation at [Silesian University in Opava, School of Business Administration in Karvina](#), Czech Republic, 24 May 2018
 13. Konrad Kułakowski, Jiří Mazurek, Jaroslav Ramík, Michael Soltys, *When condition of order preservation is met?* [87th Meeting of the European Working Group on Multiple Criteria Decision Aiding \(EWG/MCDA\)](#), Delft University of Technology, April 2018, ([certificate of attendance](#)), Netherlands
 14. K. Kułakowski, *Porównywanie alternatyw parami - metoda pomiaru rzeczy niemierzalnych*, [Seminarium Interdyscyplinarne S3 \(Science meets Social Science\)](#), Department of Operations Research, Wrocław University of Technology, March 8, 2018
 15. K. Kułakowski, *Inconsistency in the ordinal pairwise comparisons with ties* Graduate Seminar, Department of Mathematics at [California State University Channel Islands](#), October 30, 2017 ([letter of appreciation](#))
 16. K. Kułakowski, *Pairwise comparisons - a method to measure what is not measurable* Computer Science Seminar at [California State University Channel Islands](#), October 3, 2017 ([invitation](#))
 17. K. Kułakowski, *The most inconsistent graph of paired comparisons with ties* [21st Conference of the International Federation of Operational Research Societies](#) (IFORS 2017), July 17 - 21, 2017
 18. K. Kułakowski, *Inconsistency in the ordinal pairwise comparisons method with and without ties* [24th International Conference on Multiple Criteria Decision Making](#) (MCDM 2017), July 10 - 14, 2017 ([cert. of participation](#))
 19. K. Kułakowski, *Extensions of the Kendall and Babington Smith inconsistency index*, International Workshop on Multiple Criteria Decision Making '17, [IWoMCDM](#), Ustroń, Poland, 2017
 20. K. Kułakowski, *Chrześcijańska Wielokulturowość, Republika Mnichów na Górze Athos*, Katedra Historii Kultury Chrześcijańskiej, Akademia Ignatianum, Kraków 2017, ([announcement](#))
 21. K. Kułakowski, A. Kędzior, *Some Remarks on the Mean-Based Prioritization Methods in AHP*, 8th International Conference, [ICCCI 2016](#) Halkidiki, Greece

22. K. Kułakowski, *Analytic Hierarchy Process - HRE perspective*, [MCDA Workshop 2016](#), ([cert. of participation](#))
23. K. Kułakowski, J. Szybowski, K. Peter-Bombik, *Sales forecasting based on the Heuristic Rating Estimation method*, [EURO Conference 2016](#), ([pdf](#)), ([cert. of attendance](#))
24. K. Kułakowski, *Dynamic Concurrent Van Emde Boas Array , Data structure for the high performance computing*, HiPEAC Workshop, AGH UST, 2016, ([pdf](#))
25. K. Kułakowski, *Heuristic Rating Estimation - Metoda rankingowa wykorzystująca dane referencyjne*, Seminarium Zespołu Matematyki Obliczeniowej i Metod Probabilistycznych, WMS AGH, 2016 ([zaproszenie](#))
26. K. Kułakowski, R. Juszczak, and S. Ernst, *A Concurrent Inconsistency Reduction Algorithm for the Pairwise Comparisons Method*, International Conference on Artificial Intelligence and Soft Computing, ICAISC 2015, Zakopane, Poland
27. K. Kułakowski, *Heuristic Rating Estimation - applications and further development*, 6th international workshop on Multiple criteria decision making'15, 22-24 marca 2015, Ustroń, Poland
28. K. Kułakowski, *Condition of Order Preservation and Inconsistency in AHP - Where the sense of justice and the inconsistency meet each other?*, 27th European Conference on Operational Research, 12 -15 July 2015, Glasgow, UK
29. K. Kułakowski, *Heuristic Rating Estimation - another approach to the ranking procedure in AHP*, MCDM 2015 - bridging disciplines : 23rd international conference on Multiple Criteria Decision Making : 2nd-7th August 2015, Hamburg, Germany
30. K. Kułakowski, J. Szybowski, and R. Tadeusiewicz, *Tender with Success - The Pairwise Comparisons Approach*, 18th Annual Conference Knowledge-Based and Intelligent Information and Engineering Systems, KES-2014 Gdynia, Poland
31. K. Kułakowski and P. Matyasik, *Robust PI - The Simulation Robust Library Component for Pioneer 3DX*, Multiagent System Technologies MATES, Koblenz, Landau, Germany 2013
32. K. Kułakowski, *CCLSim, the simulation environment for concurrent systems*, DepCoS-RELCOMEX, Poland 2012 ([cert. of participation](#))
33. K. Kułakowski and T. Szmuc, *Modeling Robot Behavior with CCL*, Simulation, Modeling, and Programming for Autonomous Robots, SIMPAR 2012, Tsukuba, Japan
34. K. Kułakowski and T. Stępień, *Dynamic World Model with the Lazy Potential Function*, 5th KES International Conference, KES-AMSTA 2011, Manchester, UK, June 29 - July 1, 2011
35. K. Kułakowski and J. Wąs, *Two Concurrent Algorithms of Discrete Potential Field Construction*, Parallel Processing and Applied Mathematics, (PPAM) Wroclaw, Poland, 2009,