



Name: Sylwia Cichacz-Przeniosła
Citizenship: Polish
E-mail: cichacz@agh.edu.pl
www: <http://home.agh.edu.pl/~cichacz>

PROFESSIONAL EXPERIENCE

- Sept 2003 – Aug 2010: Assistant at AGH University of Science and Technology, Cracow, Poland, Faculty of Applied Mathematics
- Sept 2010 – till now: Assistant Professor at AGH University Cracow, Poland, Faculty of Applied Mathematics
- March 2012 – June 2012: Postdoc at the University of Primorska, Koper, Slovenia
Faculty of Mathematics, Natural Sciences and Information Technologies
- Sept 2014 – May 2015: Visiting Assistant Professor at University of Minnesota Duluth, U.S.A.
Department of Mathematics and Statistics
- March 2018 – May 2018 : Visiting Professor at the University of Primorska, Koper, Slovenia
Faculty of Mathematics, Natural Sciences and Information Technologies

EDUCATION

- Nov 2008: AGH University of Science and Technology;
profile: Discrete Mathematics;
Ph.D. Thesis: "Arbitrarily decomposable graphs".
- Sept 2007 – May 2008: Fulbright Junior Scholarship nr 15072441
University of Minnesota Duluth, U.S.A.
- 1998 - 2003: AGH University of Science and Technology;
profile: Applied Mathematics;
the Master Thesis: "Applications of graph theory to statics".
- 1994 - 1998: High school in Ustrzyki Dolne, mathematics.

SCHOLARSHIPS GRANTS AND AWARDS

- Polish National Science Centre research grant „*Graph labeling and decompositions*” 2011/01/D/ST1/04104 Dec 2011– Nov 2016 (Project Manager and Principal Investigator).
- Rector’s AGH-UST Awards of 2nd degree for scientific achievements: 2009, 2015, 2016, 2019, 2021, 2022.
- Rector’s AGH-UST Awards of 3rd degree for scientific achievements: 2008, 2011, 2013, 2014, 2017, 2018, 2020.
- Rector’s AGH-UST Awards for didactic achievements: 2020, 2023.
- Rector’s Poznań University of Economics and Business a Group Prize of 2nd degree: 2016, 2017, 2019.
- Foundation for Polish Science grant for a visit to Istanbul, Turkey, June 2011.
- Polish Ministry of Education research grant „*Decompositions and coloring of graphs*” N201 1247/33, 2007–2010 (Investigator).
- Fulbright Junior Scholarship nr 15072441 at University of Minnesota, Duluth, U.S.A., Sept 2007 – May 2008.
- Foundation for Polish Science grant for a visit to Bled, Slovenia, July 2007
- Visegrad Scholarship nr S-016-2006 at Safarik Univerisity, Kosice, Slovakia, Oct 2006 – Feb 2007.
- Polish Ministry of Education Ph.D. research grant „*Arbitrarily decomposable graphs*” N201 036 31/3064, 2006–2008 (Principal Investigator).
- Erasmus-Socrates Program at TU Bergakademie Freiberg, Germany, Aug 2006.

- Awarded at MA thesis competition "Diamonds of AGH" at AGH-UST in 2003.
- CEEPUS fellowship at Budapest University of Technology and Economics, Hungary, Feb 2003.

ADDITIONAL EXPERIENCE

Jan 2025:	University of Primorska, Slovenia One week science collaboration,
Aug 2024:	University of Primorska, Slovenia Three weeks science collaboration,
Aug 2022:	Technical University of Kosice, Slovakia One week science collaboration,
June 2019:	University of Primorska, Slovenia One week science collaboration,
Oct 2018:	University of Minnesota Duluth, U.S.A. Five days science collaboration,
July 2017:	University of Primorska, Slovenia Two weeks science collaboration,
July 2016:	Combinatorica o.p.s., Opava, Czech Republic Five days science collaboration,
July 2016:	University of Primorska, Slovenia Two weeks science collaboration,
Jun–July 2014:	University of Primorska, Slovenia Six weeks science collaboration,
June 2014:	Combinatorica o.p.s., Opava, Czech Republic Ten days science collaboration,
April 2013:	Poznań University of Economics, Poland Three days science collaboration,
Jan 2013:	Combinatorica o.p.s., Opava, Czech Republic two days science collaboration,
May 2012:	University of Maribor, Slovenia Three days science collaboration,
Oct 2010:	University of Minnesota Duluth, U.S.A. One week science collaboration,
March 2008:	University of Vermont, Burlington, U.S.A. One week science collaboration,
Feb 2008:	McMaster University in Hamilton, Ontario, Department of Mathematics and Statistics, Canada One week science collaboration,

Illinois State University in Bloomington IL,
Department of Mathematics, U.S.A.

Feb 2008: One week science collaboration,
University of West Bohemia in Pilsen,
Department of Mathematics, Czech Republic.

Feb 2006: One week science collaboration,
July 2003: U-Cont Cracow, Poland, trainee.

CONFERENCES AND WORKSHOPS

1. 12th Workshop '3in1' Graphs, Krynica, Poland, Nov 6–8, 2003².
2. XI Ogólnopolska Konferencja Nauczania Matematyki w Uczelniach Technicznych, Brenna, Poland, April 22–24, 2004².
3. 13th Workshop Cycles and Colourings, Tatranská Štrba, Slovakia, Sept 5–10, 2004¹.
4. Dni Matematyki Dyskretnej 2004, Zakopane, Poland.
5. Symposium on Computer Geometry SCG'2004, Kocovce, Slovakia¹.
6. 13th Workshop '3in1' Graphs, Krynica, Poland, Nov 11–13, 2004².
7. Symposium on Computer Geometry SCG'2005, Kocovce, Slovakia¹.
8. 14th Workshop Cycles and Colourings, Tatranská Štrba, Slovakia, Sept 4–9, 2005.
9. 14th Workshop '3in1' Graphs, Dobczyce, Poland, Nov 10–12, 2005².
10. Graphentheoretage 2005, Freiberg, Germany.
11. Sixth Czech-Slovak International Symposium on Combinatorics, Graph Theory, Algorithms and Applications, Prague, Czech Republic, July 10–15, 2006¹.
12. EMS Conference Horizon of Combinatorics, Lake Balaton, Hungary, July 16–22, 2006¹.
13. 15th Workshop Cycles and Colourings, Tatranská Štrba, Slovakia, Sept 4–8, 2006¹.
14. Fifth Cracow Conference on Graph Theory "USTROŃ '06" , Ustroń, Poland, Sept 11–15, 2006.^{1,2}
15. Symposium on Computer Geometry SCG'2006, Kocovce, Slovakia Oct 18–20, 2006¹.
16. Graphentheoretage, Freiberg, Germany, Dec 6–8, 2006.
17. 42nd Czech-Slovak Graph Theory Conference, Hradec nad Moravicí, Czech Republic, Jun 11–15, 2007¹.

18. 6th Slovenian International Conference on Graph Theory "Bled'07", Slovenia, Jun 24–30, 2007¹.
19. 21th Midwest Conference on Combinatorics, Cryptography and Computing, Charleston SC, USA, Oct 13–14, 2007¹.
20. 39th Southeastern International Conference on Combinatorics, Graph Theory, and Computing, Boca Raton Fl, USA, March 3–7, 2008¹.
21. Mathematical Abundance Designs – Graphs – Number Theory, Bloomington IL, USA, April 18–19, 2008¹.
22. 17th Workshop Cycles and Colourings, Tatranská Štrba, Slovakia, Sept 7–12, 2008¹.
23. 2nd Polish Combinatorial Conference, Będlewo, Poland, Oct 17-21, 2008¹.
24. 17th Workshop '3in1' Graphs, Krynica, Poland, Nov 7–9, 2008.
25. 2nd Discrete Integration Meeting, Osieczany, Poland, May 27–28, 2009.²
26. 20th International Workshop on Combinatorial Algorithms, Hradec nad Moravicí, Czech Republic, June 28–29, 2009¹.
27. III Forum Matematyków Polskich, Krakow, Poland June 30 – July 2, 2009.²
28. Advanced Course on Optimization: Theory, Methods and Applications, Barcelona, Spain, July 20–24, 2009.
29. Colourings, Independence and Domination, Szklarska Poreba, Poland, Sept 20–25, 2009¹.
30. 18th Workshop '3in1' Graphs, Krakow, Poland, Nov 26–28, 2009.
31. Sixth Cracow Conference on Graph Theory "ZGORZELISKO '10", Zgorzelisko, Poland, Sept 12–17, 2010.
32. 7th International Workshop on Graph Labelings, Duluth MN, USA, Oct 20–22, 2010¹.
33. Midwest Graph Theory Conference L, Superior WI, USA, Oct 22–23, 2010.
34. 19th Workshop '3in1' Graphs, Kroczyce, Poland, Nov 25–27, 2010.
35. III Discrete Integration Meeting, Lviv, Ukraine, May 26–29, 2011.
36. 2nd Istanbul Design Theory, Graph Theory and Combinatorics Conference 27th, Istanbul, Turkey 27.06-01.07.2011¹.
37. Colourings, Independence and Domination, Szklarska Poreba, Poland, Sept 18–23, 2011¹.
38. 20th Workshop '3in1', Krynica, Poland, Nov 24–26, 2011¹.

39. 21st Workshop Cycles and Colourings, Novy Smokoviec, Slovakia, Sept 9–14, 2012¹.
40. 21th Workshop '3in1', Krakow, Poland, Nov 29–30, 2012¹.
41. Česko-Slovenská konference GRAFY 2014, Teplice nad Bečvou, Czech Republic, June 9–13, 2014¹.
42. The 2014 Central Fall AMS Section Meeting, Special Session on Graph and Hypergraph Theory, University of Wisconsin-Eau Claire, Eau Claire, WI, U.S.A., Sept 20–21, 2014¹.
43. 25th International Workshop on Combinatorial Algorithms, University of Minnesota Duluth, U.S.A., Oct 15–17, 2014¹.
44. 28th Midwest Conference on Combinatorics and Combinatorial Computing, University of Nevada Las Vegas, U.S.A. Oct 22–24, 2014¹.
45. 9th International Workshop on Graph Labelings, Krakow, Poland July 7–9, 2016².
46. 25th Workshop '3in1', Doslonce, Poland, Nov 16–19, 2016¹.
47. 26th Workshop Cycles and Colourings, Novy Smokoviec, Slovakia, Sept 3–8, 2017¹.
48. 5th Gdańsk Workshop on Graph Theory, Sopot, Poland, Sept 13–15, 2017¹.
49. 26th Workshop '3in1', Dosłońce, Poland, Oct 26–28, 2017¹.
50. 8th Cracow Conference on Graph Theory "RYTRO '18", Rytro, Poland, Sept 12–14, 2018¹.
51. 10th International Workshop on Graph Labelings, Muncie, Indiana, USA, Sept 26–28, 2018¹.
52. Midwest Graph Theory Conference LX, Fort Wayne Indiana, USA, Sept 28–29, 2018¹.
53. 32nd Midwest Conference on Combinatorics and Combinatorial Computing, Duluth, Minnesota, U.S.A., Oct 5–7, 2018¹.
54. 27th Workshop '3in1', Stryszawa, Poland, Nov 22–24, 2018¹.
55. 9th Slovenian International Conference on Graph Theory "Bled'19", Slovenia, Jun 23–26, 2019¹.
56. 27th British Combinatorial Conference, United Kingdom, July 29 – Aug 2, 2019¹.
57. Conference On the Trail of Women in Mathematics - in Honor of Sofia Kowalewska, Krakow, Poland, Aug 31 – Sept 2, 2019¹.
58. Jubileuszowy Zjazd Matematyków Polskich w stulecie PTM, Krakow, Poland, Sept 3–7, 2019¹.
59. 28th Workshop '3in1', Dosłońce, Poland, Nov 21–23, 2019¹.

60. 8th Polish Combinatorial Conference, Poland (online), Sept 14–18, 2020.
61. 29th Workshop Cycles and Colourings, Košice, Slovakia, Sept 6–10, 2021¹.
62. 11th International Workshop on Graph Labelings, online, Sept 22–23, 2021¹.
63. 9th Cracow Conference on Graph Theory "RYTRO '22", Rytro, Poland, June 9–10, 2022¹
64. 30th Workshop Cycles and Colourings, Novy Smokovec, Slovakia, Sept 8–9, 2022.
65. 8th Gdańsk Workshop on Graph Theory, Sopot, Poland, June 26–30, 2023¹.
66. 31st Workshop Cycles and Colourings, Novy Smokovec, Slovakia, Sept 5–8, 2023.
67. 9th Gdańsk Workshop on Graph Theory, Gdansk, Poland, June 16–21, 2024¹.
68. 12th International Workshop on Graph Labelings, Kraków, Poland, June 24–26, 2024².
69. Summit280, Budapest, Hungary, July 8–12, 2024¹.
70. 32st Workshop Cycles and Colourings, Poprad, Slovakia, Sept 8–13, 2024¹.
71. 10th Polish Combinatorial Conference, Będlewo, Poland, Sept 15-21, 2024¹.

¹ giving a talk

² The Organizing Committee

INVITED LECTURES

1. *Application of zero-sum sets in magic-type and antimagic-type graph labeling*, Combinatorics Today Series, Institut Teknologi Bandung, Indonesia, online, 2025.
2. *Zero-sum sets on Abelian groups in graphs*, 32nd Workshop on Cycles and Colourings, Poprad, Slovakia, 2024.
3. *Critical bipartite graphs and their properties*, "CaRT 2023" (Combinatorics and related topics), online, 2023.
4. *A group irregular labeling of digraphs*, 11th International Workshop on Graph Labelings, online, 2021.
5. *Partition of sets and its applications in graph labeling*, 32nd Midwest Conference on Combinatorics and Combinatorial Computing, Duluth, Minnesota, U.S.A. 2018.
6. *Old and new open problems on distance magic-type labeling*, 10th International Workshop on Graph Labelings, Muncie, Indiana, U.S.A. 2018.

7. *Union of distance magic graphs*, AMS Special Session on Graphs and Hypergraphs, Eau Claire Wisconsin, U.S.A., 2014.
8. *Distance magic types of labelings*, Cesko-Slovenska konference GRAFY 2014, Teplice nad Bečvou, Czech Republic, 2014.

CONFERENCE TALKS

1. *Disjoint zero-sum sets in Abelian groups*, 10th Polish Combinatorial Conference, Poland, 2024.
2. *On A-cordial trees*, Summit280, Hungary, 2024.
3. *On A-cordial caterpillars*, 9th Gdańsk Workshop on Graph Theory, Poland, 2024.
4. *Minimal k-critical bipartite graphs*, 8th Gdańsk Workshop on Graph Theory, Poland, 2023.
5. *A group irregular labeling of digraphs*, 9th Cracow Conference on Graph Theory "RYTRO '22", Poland, 2022.
6. *On some graph-cordial Abelian groups*, 29th Workshop Cycles and Colourings, Slovakia, 2021.
7. *Minimal biregular k-critical bipartite graphs*, 28th Workshop '3in1', Poland, 2019.
8. *Realization of digraphs in Abelian groups*, Jubileuszowy Zjazd Matematyków Polskich w stulecie PTM, Poland, 2019.
9. *A magic rectangle set on Abelian groups*, Conference On the Trail of Women in Mathematics, Poland, 2019.
10. *Realization of digraphs in Abelian groups*, 27th British Combinatorial Conference, United Kingdom, 2019.
11. *Group distance magic labeling of hypercubes*, 9th Slovenian International Conference on Graph Theory "Bled'19", Slovenia, 2019.
12. *Realization of digraphs in Abelian groups*, 27th Workshop '3in1', Poland, 2018.
13. *Linear bounds on nowhere-zero group irregularity strength and nowhere-zero group sum chromatic number of graphs*, Midwest Graph Theory Conference, Fort Wayne IN, U.S.A., 2018.
14. *Group edge irregularity strength of graphs and harmonious order of graphs*, 8th Cracow Conference on Graph Theory "RYTRO '18", Poland, 2018.

15. *Group twin coloring of graphs*, 26th Workshop '3in1', Poland, 2017.
16. *The zero sum partition of Abelian groups and its applications*, 5th Gdańsk Workshop on Graph Theory, Poland, 2017.
17. *Group irregularity strength of disconnected graphs*, 26th Workshop Cycles and Colourings, Slovakia, 2017.
18. *On constant sum-partition of Abelian groups and group distance magic labeling*, 25th Workshop '3in1', Poland, 2016.
19. *Spectra of graphs and closed distance magic labelings*, 28th Midwest Conference on Combinatorics and Combinatorial Computing, Las Vegas NV, U.S.A., 2014.
20. *A Γ -magic rectangle set and group distance magic labeling*, 25th International Workshop on Combinatorial Algorithms, Duluth MN, U.S.A., 2014.
21. *Group irregularity strength of connected graphs*, 21st Workshop '3in1', Poland, 2012.
22. *Distance magic labeling of product of two graphs*, 21st Workshop Cycles and Colourings, Slovakia, 2012.
23. *(H, k) -stability of graphs*, Colourings, Independence and Domination, Szklarska Poreba, Poland, 2011.
24. *On (C_n, k) stable graphs*, 2nd Istanbul Design Theory, Graph Theory and Combinatorics Conference, Istanbul, Turkey, 2011.
25. *A note on k -cordial p -uniform hypertrees*, International Workshop on Graph Labelings, Duluth MN, U.S.A 2010.
26. *k -cordial p -uniform hipertrees*, Colourings, Independence and Domination, Szklarska Poreba, Poland, 2009.
27. *Decomposition of $K_{n,n}$ into $(0, j)$ -prisms*, 20th International Workshop on Combinatorial Algorithms, Czech Republic, 2009.
28. *Super edge-graceful paths and cycles*, 17th Workshop Cycles and Colourings, Slovakia, 2008.
29. *Super edge-graceful paths*, Mathematical Abundance Designs – Graphs – Number Theory, U.S.A., 2008.
30. *2-splittable and cordial graphs*, 39th Southeastern International Conference on Combinatorics, Graph Theory, and Computing, U.S.A., 2008.
31. *Decomposition into trails*, 21th Midwest Conference on Combinatorics, Cryptography and Computing, U.S.A., 2007.

32. *Arbitrarily decomposition into open and closed trails*, 6th Slovenian International Conference on Graph Theory "Bled'07", Slovenia, 2007.
33. *The open trails in digraphs*, 42nd Czech-Slovak Graph Theory Conference, Czech Republic, 2007.
34. *Computer Aided Visualization of Problems Related to Polyhedra*, Symposium on Computer Geometry SCG, Slovakia, 2006.
35. *Decomposition of complete bipartite graphs into open trails*, Fifth Cracow Conference on Graph Theory "USTRON '06", Poland, 2006.
36. *Decomposition of complete bipartite graphs into trails*, 15th Workshop Cycles and Colourings, Slovakia, 2006.
37. *Decomposition of complete bipartite graphs into open trails*, EMS Conference Horizon of Combinatorics, Hungary, 2006.
38. *Decomposition of complete bipartite digraphs and even complete bipartite multigraphs into closed trails*, Sixth Czech-Slovak International Symposium on Combinatorics, Graph Theory, Algorithms and Applications, Czech Republic, 2006.
39. *Application of the Flash MX Program to Visualization of Selected Metric Problems*, Symposium on Computer Geometry SCG, Slovakia, 2005.
40. *Application of B-spline to Representation of Selected Lines and Surfaces*, Symposium on Computer Geometry SCG, Slovakia, 2004.
41. *Arbitrarily vertex decomposable caterpillars*, 13th Workshop Cycles and Colourings, Slovakia, 2004.

COLLOQUIA LECTURES

1. *Magic squares in finite Abelian groups*, department colloquium AGH, Poland, 2025.
2. *On the Conjecture of group antimagic trees*, department colloquium AGH, Poland, 2024.
3. *Irregular labeling on Abelian groups of digraphs*, department colloquium AGH, Poland, 2023.
4. *On some graph-cordial Abelian groups*, department colloquium Warsaw University of Technology, Poland, 2022.
5. *Minimal k -critical bipartite graphs*, department colloquium University of Gdansk, Poland, 2022.

6. *On some graph-cordial Abelian groups*, department colloquium AGH, Poland, 2022.
7. *Magic hypercubes*, department colloquium AGH, Poland, 2021.
8. *A magic rectangle set on finite Abelian groups*, department colloquium Poznań University of Economics and Business, Poland, 2019.
9. *A magic rectangle set on finite Abelian groups*, department colloquium AGH, Poland, 2019.
10. *Realization of digraphs in finite Abelian groups*, department colloquium Warsaw University of Technology, Poland, 2019.
11. *Realization of digraphs in finite Abelian groups*, department colloquium AGH, Poland, 2019.
12. *Application of constant sum partition of sets into graph labeling*, department colloquium AGH, Poland, 2018.
13. *Labeling of graphs by elements of Abelian groups*, department colloquium Adam Mickiewicz University, Poland, 2018.
14. *A magic rectangle set on Abelian groups*, Graduate Colloquium, University of Minnesota Duluth, U.S.A. 2018.
15. *The zero sum partition of Abelian groups and its applications*, Mathematical Research Seminar University of Primorska, Slovenia, 2018.
16. *A V_4 -cordial labeling of uniform hypertrees*, department colloquium AGH, Poland, 2018.
17. *Group irregularity strength of disconnected graphs*, department colloquium AGH, Poland, 2017.
18. *Zero-sum partition of Abelian groups*, department colloquium Adam Mickiewicz University, Poland, 2017.
19. *Sum partition into sets of the same order*, department colloquium AGH, Poland, 2017.
20. *Survey on group distance magic graphs*, department colloquium Warsaw University of Technology, Poland, 2017.
21. *Distance magic labeling*, department colloquium AGH, Poland, 2016.
22. *Games on map coloring*, Seminar GRATKO, University of Wisconsin-Superior, U.S.A., 2015.
23. *Survey on distance magic graphs*, Graduate Colloquium, Michigan Technological University, Houghton, Michigan U.S.A. 2014

24. *Group irregularity strength of graphs*, Graduate Colloquium, University of Minnesota Duluth, U.S.A. 2014.
25. *Magic labelings*, department colloquium AGH, Poland, 2014.
26. *Distance magic circulant graphs*, department colloquium AGH, Poland, 2013.
27. *Group irregularity strength of graphs*, department colloquium Warsaw University of Technology, Poland, 2013.
28. *Group sum chromatic number of graphs*, department colloquium AGH, Poland, 2012.
29. *Distance magic graphs*, department colloquium University of Maribor, Slovenia, 2012.
30. *Distance magic hypercycles*, department colloquium AGH, Poland, 2011.
31. *k-cordial hypertrees*, department colloquium AGH, Poland, 2009.
32. *Decomposition into trails*, department colloquium Adam Mickiewicz University, Poland, 2009.
33. *Arbitrarily decomposable graphs*, department colloquium Warsaw University of Technology, Poland, 2008.
34. *Factorization of $K_{n,n}$ into $(0, j)$ -prisms*, department colloquium AGH, Poland, 2008.
35. *Polish System of Education*, Undergraduate Colloquium, UMD, U.S.A. 2008.
36. *Stefan Banach and "The Scottish Book"*, Undergraduate Colloquium, UMD, U.S.A. 2008.
37. *Factorization of $K_{n,n}$ into $(0, j)$ -prisms*, department colloquium Illinois State University, U.S.A., 2008.
38. *Decompositions of graphs into trails*, Seminar GRATKO, University of Minnesota Duluth, U.S.A., 2007.
39. *Arbitrarily decomposable graphs*, department colloquium AGH, Poland, 2007.
40. *Decompositions of bipartite graphs into trails*, department colloquium University of P. Safarik in Kosice, Slovakia, 2006.
41. *Decompositions of graphs into trails*, department colloquium TU Bergakademie Freiberg, Germany, 2006.
42. *Decompositions of bipartite graphs into trails*, department colloquium AGH, Poland, 2006.
43. *Arbitrarily vertex decomposable caterpillars*, department colloquium AGH, Poland, 2005.

44. *Decompositions of graphs into closed trails of even sizes*, department colloquium University of West Bohemia in Pilsen, Czech Republic, 2005
45. *Decompositions of bipartite digraphs into trails*, department colloquium AGH, Poland, 2004
46. *Applications of graph theory in static*, department colloquium AGH, Poland, 2003.

TEACHING

AGH University of Science and Technology:

Abstract Algebra
Graphs and Networks
Extremal Combinatorics
Discrete Mathematics
Discrete Mathematics (English)
Descriptive Geometry
Higher Algebra (English)
Linear Algebra
Linear Algebra (English)
Linear Programming
Mathematics for Engineers
Mathematical Analysis I
Mathematical Analysis II
Probability and Statistics
Selected Aspects of Higher Mathematics
Selected Aspects of Higher Mathematics (English)
Software Engineering

University of Primorska (English):

Descriptive Geometry
Selected topic in Abstract Algebra

University of Minnesota Duluth (English):

MATH 3355 Discrete Mathematics
MATH 4326 Linear Algebra
MATH 5527 Advanced Linear Algebra

GRADUATE STUDENTS

Feret Bartosz	2012	(M.S., AGH)
Bednarski Szymon	2013	(M.S., AGH)
Sobieniecki Marek	2013	(M.S., AGH)
Inne Singgih	2015	(M.S., UMD) (co-advisor with Dalibor Froncek)
Ian McGahan	2015	(M.S., UMD) (co-advisor with Dalibor Froncek)
Paweł Dyrłaga	2019	(M.S., AGH)
Tomasz Wilk	2020	(M.S., AGH)
Ewa Szadkowska	2021	(M.S., AGH)
Karolina Szopa	2021	(M.S., AGH)
Barbara Krupińska	2022	(M.S., AGH)
Celina Dyksińska	2022	(M.S., AGH)
Paulina Gierlak	2024	(M.S., AGH)
Weronika Szwamberg	2024	(M.S., AGH)

UNDERGRADUATE STUDENTS ADVISED

Piotrowski Jakub	2011
Rębacz Łukasz	2011
Smusz Sabina	2011
Sobieniecki Marek	2011
Sukiennik Anna	2011
Suska Wojciech	2011
Szlęk Magdalena	2011
Wilczek Barbara	2011
Ślusarczyk Adrianna	2024
Stelmach Marta	2024
Oczkowicz Jakub	2024
Kruszak Gabriela	2024
Gola Adam	2024
Maria Majewska	2024

SKILLS

<i>Languages</i>	Polish (mother tongue) English (fluent) Russian (fair)
<i>Software</i>	HTML, L ^A T _E X

REFEREEING

Referee for journals:

- AIMS Mathematics,
- AKCE International Journal of Graphs and Combinatorics,
- Ars Combinatoria,
- Ars Mathematica Contemporanea,
- Asian-European Journal of Mathematics,
- Australasian Journal of Combinatorics,
- Bulletin of the Institute of Combinatorics and its Applications,
- Bulletin of the Iranian Mathematical Society,
- Bulletin of the Malaysian Mathematical Sciences Society,
- Central European Journal of Mathematics,
- Computational and Applied Mathematics,
- Discrete Applied Mathematics,
- Discrete Mathematics,
- Discrete Mathematics & Theoretical Computer Science,
- Discussiones Mathematicae Graph Theory,
- Electronic Journal of Combinatorics,
- Electronic Journal of Combinatorics,
- Graphs and Combinatorics,
- International Journal of Mathematics and Mathematical Sciences,
- Information Processing Letters,
- Iranian Journal of Mathematical Sciences and Informatics,
- Journal of Combinatorial Designs,
- Journal of Combinatorial Optimization,
- Journal of Graph Theory,

- Open Mathematics,
- Opuscula Mathematica,
- Punjab University Journal of Mathematics,
- Research in the Mathematical Sciences,
- Utilitas Mathematica.

Referee for:

- Conference IWOCA 2018, 2024
- Master Thesis Award by Polish Information Processing Society, 2018
- Hungarian National Research Development and Innovation Office, 2022

MEMBER OF EDITORIAL BOARD

- Ars Combinatoria
- Indonesian Journal of Combinatorics
- Open Mathematics

SYLWIA CICHACZ-PRZENIOSŁO-LIST OF PUBLICATIONS

1. S. CICHACZ, E_A -cordial labeling of graphs and its implications for A -antimagic labeling of trees, *Discrete Mathematics* **348** (2025) 114493, ,
[doi:10.1016/j.disc.2025.114493](https://doi.org/10.1016/j.disc.2025.114493).
2. S. CICHACZ, *Partition of Abelian groups into zero-sum sets by complete mappings and its application to the existence of a magic rectangle set*, *Journal of Algebraic Combinatorics* **61**(24) (2025) [doi:10.1007/s10801-025-01392-9](https://doi.org/10.1007/s10801-025-01392-9).
3. S. CICHACZ, K. SUCHAN, *Zero-sum partitions of Abelian groups and their applications to magic- and antimagic-type labelings*, *Discrete Mathematics & Theoretical Computer Science* **26:3** #14 (2024), [doi:10.46298/dmtcs.12361](https://doi.org/10.46298/dmtcs.12361).
4. S. CICHACZ, A. GÖRLICH K. SUCHAN, *k -fault-tolerant graphs for p disjoint complete graphs of order c* , *Discussiones Mathematicae - Graph Theory* **44**(4) (2024), 1471-1484
[doi:10.7151/dmgt.2504](https://doi.org/10.7151/dmgt.2504).
5. S. CICHACZ, K. SUCHAN, *Zero-sum partitions of Abelian groups of order 2^n* , *Discrete Mathematics & Theoretical Computer Science* **25:1** #6 (2023), [doi:10.46298/dmtcs.9914](https://doi.org/10.46298/dmtcs.9914).
6. M. ANHOLCER, S. CICHACZ, I. PETERIN, *On b -acyclic chromatic number of a graph*, *Computational and Applied Mathematics* **42:21** (2023), [doi:10.1007/s40314-022-02156-y](https://doi.org/10.1007/s40314-022-02156-y).
7. S. CICHACZ, A. GÖRLICH, A. SEMANIČOVÁ-FEŇOVČÍKOVÁ, *Upper bounds on distance vertex irregularity strength of some families of graphs*, *Opuscula Mathematica* **42**(4) (2022) 561–571, [doi:10.7494/OpMath.2022.42.4.561](https://doi.org/10.7494/OpMath.2022.42.4.561).
8. S. CICHACZ, ZS. TUZA, *Realization of digraphs in abelian groups and its consequences*, *J. Graph Theory* **100**(2) (2022) 331–345, [doi:10.1002/jgt.22782](https://doi.org/10.1002/jgt.22782).
9. S. CICHACZ, *On some graph-cordial Abelian groups*, *Discrete Mathematics* **345** (2022) 112815, [doi:10.1016/j.disc.2022.112815](https://doi.org/10.1016/j.disc.2022.112815).
10. S. CICHACZ, A. GÖRLICH, A. SEMANIČOVÁ-FEŇOVČÍKOVÁ, *Upper bounds on inclusive distance vertex irregularity strength*, *Graphs and Combinatorics* **37** (2021) 2713–2721, [doi:10.1007/s00373-021-02385-8](https://doi.org/10.1007/s00373-021-02385-8).
11. M. ANHOLCER, S. CICHACZ, D. FRONCEK, R. SIMANJUNTAK, J. QIU, *Group distance magic and antimagic hypercubes*, *Discrete Mathematics* **112625** (2021) 112625, [doi:10.1016/j.disc.2021.112625](https://doi.org/10.1016/j.disc.2021.112625).
12. S. CICHACZ, A. GÖRLICH, ZS. TUZA, *$\mathbb{Z}_2 \times \mathbb{Z}_2$ -cordial cycle-free hypergraphs*, *Discussiones Mathematicae - Graph Theory* **41** (2021) 1021–1040, [doi:10.7151/dmgt.2226](https://doi.org/10.7151/dmgt.2226).
13. S. CICHACZ, K. SUCHAN, *Vertex-fault tolerant complete matching in bipartite graphs: the biregular case*, *Discrete Applied Mathematics* **302** (2021) 54–66, [doi:10.1016/j.dam.2021.06.005](https://doi.org/10.1016/j.dam.2021.06.005)

14. S. CICHACZ, T. HINC, *A note on magic rectangle set $MRS_{\Gamma}(2k+1, 4, 4l+2)$* , Journal of Combinatorial Designs **29** (2021) 502–507, doi:[10.1002/jcd.21781](https://doi.org/10.1002/jcd.21781)
15. S. CICHACZ, T. HINC, *A magic rectangle set on Abelian groups and its application*, Discrete Applied Mathematics **288** (2021) 201–210, doi:[10.1016/j.dam.2020.08.029](https://doi.org/10.1016/j.dam.2020.08.029)
16. S. CICHACZ, K. SZOPA, *Modular edge-gracefulness of graphs without stars*, Symmetry **12(12)** (2020) 2013, doi:[10.3390/sym12122013](https://doi.org/10.3390/sym12122013).
17. S. CICHACZ, P. DYRLAGA, D. FRONCEK, *Group distance magic Cartesian product of two cycles*, Discrete Mathematics **343** (2020), 111807, doi:[10.1016/j.disc.2019.111807](https://doi.org/10.1016/j.disc.2019.111807).
18. M. ANHOLCER, S. CICHACZ, *Note on the group edge irregularity strength of graphs*, Applied Mathematics and Computation **350** (2019) 237–241, doi:[10.1016/j.amc.2019.01.007](https://doi.org/10.1016/j.amc.2019.01.007).
19. M. ANHOLCER, S. CICHACZ, J. PRZYBYŁO, *Linear bounds on nowhere-zero group irregularity strength and nowhere-zero group sum chromatic number of graphs*, Applied Mathematics and Computation **343** (2019), 149–155, doi:[10.1016/j.amc.2018.09.056](https://doi.org/10.1016/j.amc.2018.09.056).
20. S. CICHACZ, B. FREYBERG, D. FRONCEK, *Orientable \mathbb{Z}_n -distance magic graphs*, Discussiones Mathematicae - Graph Theory **39** (2019) 533–546, doi:[10.7151/dmgt.2094](https://doi.org/10.7151/dmgt.2094).
21. S. CICHACZ, I. A. ZIOŁO, *2-swappable graphs*, AKCE International Journal of Graphs and Combinatorics **15(3)** (2018) 242–250, doi:[10.1016/j.akcej.2017.11.002](https://doi.org/10.1016/j.akcej.2017.11.002).
22. S. CICHACZ, J. PRZYBYŁO, *Group twin edge coloring of graphs*, Discrete Mathematics and Theoretical Computer Science **20:1** (2018), #24.
23. M. ANHOLCER, S. CICHACZ, R. JURA, A. MARCZYK, *Note group irregular labelings of disconnected graphs*, Open Mathematics **16** (2018), 154–160, doi:[10.1515/math-2018-0017](https://doi.org/10.1515/math-2018-0017).
24. S. CICHACZ, *Zero sum partition into sets of the same order and its applications*, Electronic Journal of Combinatorics **25(1)** (2018), #P1.20.
25. S. CICHACZ, A. GÖRLICH, *Constant sum partition of set of integers and distance magic graphs*, Discussiones Mathematicae - Graph Theory **38** (2018), 97–106, doi:[10.7151/dmgt.1991](https://doi.org/10.7151/dmgt.1991).
26. M. ANHOLCER, S. CICHACZ, *Group irregular labelings of disconnected graphs*, Contributions to Discrete Mathematics **12(2)** (2017), 158–166.
27. S. CICHACZ, *On zero sum-partition of Abelian groups into three sets and group distance magic labeling*, Ars Mathematica Contemporanea **13(2)** (2017), 417–425.
[Corrigendum: Ars Mathematica Contemporanea **16(2)** (2019), 641.]
28. S. CICHACZ, M. NIKODEM, *Note on union of distance magic graphs*, Discussiones Mathematicae - Graph Theory **37** (2017), 239–249, doi:[10.7151/dmgt.1932](https://doi.org/10.7151/dmgt.1932).

29. S. CICHACZ, D. FRONCEK, I. SINGGIH, *Vertex magic total labelings of 2-regular graphs*, Discrete Mathematics **340**(1) (2017) 3117–3124, [doi:10.1016/j.disc.2016.06.022](https://doi.org/10.1016/j.disc.2016.06.022).
30. S. CICHACZ, *Distance magic (r, t) -hypercycles*, Utilitas Mathematica **101** (2016), 283–294.
31. S. CICHACZ, D. FRONCEK, K. SUGENG, SANMING ZHOU, *Group distance magic and antimagic graphs*, Acta Math. Sin. (Engl. Ser.) **32**(10) (2016), 1159–1176, [doi:10.1007/s10114-016-4646-9](https://doi.org/10.1007/s10114-016-4646-9).
[Extended abstract: Electronic Notes in Discrete Math. **48** (2015), 41–48, [doi:10.1016/j.endm.2015.05.007](https://doi.org/10.1016/j.endm.2015.05.007).]
32. M. ANHOLCER, S. CICHACZ, I. PETERIN, *Spectra of graphs and closed distance magic labelings*, Discrete Mathematics **339**(7) (2016) 1915–1923, [doi:10.1016/j.disc.2015.12.025](https://doi.org/10.1016/j.disc.2015.12.025).
33. S. CICHACZ, D. FRONCEK, E. KROP, C. RARIDAN, *Distance magic Cartesian products of graphs*, Discussiones Mathematicae - Graph Theory **36** (2016) 299–308, [doi:10.7151/dmgt.1852](https://doi.org/10.7151/dmgt.1852).
34. M. ANHOLCER, S. CICHACZ, *Group sum chromatic number of graphs*, European Journal of Combinatorics **55** (2016), 73–81, [doi:10.1016/j.ejc.2016.02.002](https://doi.org/10.1016/j.ejc.2016.02.002).
35. S. CICHACZ, D. FRONCEK, *Distance magic circulant graphs*, Discrete Mathematics **339**(1) (2016) 84–94, [doi:10.1016/j.disc.2015.07.002](https://doi.org/10.1016/j.disc.2015.07.002).
36. M. ANHOLCER, S. CICHACZ, I. PETERIN, A. TEPEH, *Distance magic labeling and two products of graphs*, Graphs and Combinatorics **31**(5) (2015), 1125–1136, [doi:10.1007/s00373-014-1455-8](https://doi.org/10.1007/s00373-014-1455-8).
37. M. ANHOLCER, S. CICHACZ, *Note on distance magic products $G \circ C_4$* , Graphs and Combinatorics **31**(5) (2015), 1117–1124, [doi:10.1007/s00373-014-1453-x](https://doi.org/10.1007/s00373-014-1453-x).
38. S. CICHACZ, *A Γ -magic rectangle set and group distance magic labeling*, IWOCA 2014, Lecture Notes in Computer Science IWOCA 2014, Lecture Notes in Computer Science **8986** (2015), 122–127, [doi:10.1007/978-3-319-19315-1_11](https://doi.org/10.1007/978-3-319-19315-1_11).
39. M. ANHOLCER, S. CICHACZ, M. MILANIČ, *Group irregularity strength of connected graphs*, Journal of Combinatorial Optimization **30**(1) (2015) 1–17, [doi:10.1007/s10878-013-9628-6](https://doi.org/10.1007/s10878-013-9628-6).
40. M. ANHOLCER, S. CICHACZ, I. PETERIN, A. TEPEH, *Group distance magic labeling of direct product of graphs*, Ars Mathematica Contemporanea **9** (2015) 93–108.
41. S. CICHACZ, *Group distance magic graphs $G \times C_n$* , Discrete Applied Mathematics **177**(20) (2014) 80–87, [doi:10.1016/j.dam.2014.05.044](https://doi.org/10.1016/j.dam.2014.05.044).

42. S. CICHACZ, S. DIB, D. FRONCEK, *Decomposition of complete graphs into $(0, 2)$ -prisms*, Czechoslovak Mathematical Journal **64(1)** (2014) 37–43, [doi:10.1007/s10587-014-0080-2](https://doi.org/10.1007/s10587-014-0080-2).
43. S. CICHACZ, *Note on group distance magic graphs $G[C_4]$* , Graphs and Combinatorics **12(3)** (2014) 565–571, [doi:10.1007/s00373-013-1294-z](https://doi.org/10.1007/s00373-013-1294-z).
44. S. CICHACZ, *Note on group distance magic complete bipartite graphs*, Central European Journal of Mathematics **12(3)** (2014) 529–533, [doi:10.2478/s11533-013-0356-z](https://doi.org/10.2478/s11533-013-0356-z).
45. S. CICHACZ, D. FRONCEK, M. MESZKA, *Decomposition of complete graphs into small generalized prisms*, AKCE Int. J. Graphs Comb. **10 No. 3** (2013), 285–293.
46. S. CICHACZ, *Group distance magic labeling of some cycle-related graphs*, Australas. J. Combinatorics **57** (2013) 235–243.
47. S. CICHACZ, A. GÖRLICH, ZS. TUZA, *Cordial labeling of hypertrees*, Discrete Mathematics **313** (22) (2013) 2518–2524, [doi:10.1016/j.disc.2013.07.025](https://doi.org/10.1016/j.disc.2013.07.025).
48. S. CICHACZ, D. FRONCEK, P. KOVÁŘ, *Decomposition of complete bipartite graphs into generalized prisms*, European Journal of Combinatorics **34** (2013) 104–110, [doi:10.1016/j.ejc.2012.07.018](https://doi.org/10.1016/j.ejc.2012.07.018).
49. S. CICHACZ, D. FRONCEK, M. MESZKA, *Decomposition of complete graphs into small bipartite prisms*, Congressus Numerantium **211** (2012) 133–140.
50. S. CICHACZ, A. GÖRLICH, M. NIKODEM, A. ŽAK, *Lower bound on the size of $(H, 1)$ -vertex stable graphs*, Discrete Mathematics **312** (2012) 3026–3029, [doi:10.1016/j.disc.2012.06.023](https://doi.org/10.1016/j.disc.2012.06.023).
51. S. CICHACZ, T. WIEJA, *Interactive Presentations of Selected Descriptive Geometry Problems in the Flash MX Program*, The Journal of Polish Society of Geometry and Engineering Graphics **22** (2011) 25–30.
52. S. CICHACZ, A. GÖRLICH, M. ZWONEK, A. ŽAK, *On $(C_n; k)$ stable graphs*, The Electronic Journal of Combinatorics **18(1)** (2011), # P205.
53. S. CICHACZ, A. GÖRLICH, *Open trails in digraphs*, Opuscula Mathematica **31/4** (2011) 599–604, [doi:10.7494/OpMath.2011.31.4.599](https://doi.org/10.7494/OpMath.2011.31.4.599).
54. S. CICHACZ, J. PRZYBYŁO, *Irregular edge coloring of 2-regular graphs*, Discrete Mathematics and Theoretical Computer Science vol. **13:1** (2011) 1–12.
55. S. CICHACZ, D. FRONCEK, *Bipartite graphs decomposable into closed trails*, J. Combin. Math. Combin. Comput. **74** (2010), 207–216.
56. S. CICHACZ, J. PRZYBYŁO, *Vertex-distinguishing edge-colorings of sums of paths*, Discussiones Mathematicae - Graph Theory **30(1)** (2010) 95–103.

57. S. CICHACZ, A. GÖRLICH, *Edge-disjoint open trails in complete bipartite multigraphs*, Graphs and Comb. **26** (2010) 207–214, doi:[10.1007/s00373-010-0904-2](https://doi.org/10.1007/s00373-010-0904-2).
58. S. CICHACZ, *2-splittable and cordial graphs*, Opuscula Mathematica **30/1** (2010) 61–67, doi:[10.7494/OpMath.2012.30.1.61](https://doi.org/10.7494/OpMath.2012.30.1.61).
59. S. CICHACZ, D. FRONCEK, P. KOVÁŘ, *Note on decomposition of $K_{n,n}$ into $(0, j)$ -prisms*, in: J. Fiala, J. Kratochvíl, M. Miller (Eds.) IWOCA 2009, Lecture Notes in Computer Science **5874**, Springer-Verlag, Berlin Heidelberg, 125–133, doi: [10.1007/978-3-642-10217-2_15](https://doi.org/10.1007/978-3-642-10217-2_15).
60. S. CICHACZ, D. FRONCEK, A. KHODKAR, W. XU, *Super edge-graceful paths*, Bulletin of ICA **57** (2009) 79–90.
61. S. CICHACZ, D. FRONCEK, *Factorization of $K_{n,n}$ into $(0, j)$ -prisms*, Information, Processing Letters **109** (2009) 932–934, doi:[10.1016/j.ipl.2009.04.024](https://doi.org/10.1016/j.ipl.2009.04.024).
62. S. CICHACZ, J. PRZYBYŁO, M. WOŹNIAK, *Decompositions of pseudographs into closed trails of even sizes*, Discrete Mathematics **309** (2009) 4903–4908, doi:[10.1016/j.disc.2008.04.024](https://doi.org/10.1016/j.disc.2008.04.024).
63. S. CICHACZ, Y. EGAWA, M. WOŹNIAK, *Arbitrary decompositions into open and closed trails*, Discrete Mathematics **309** (2009) 1511–1516, doi:[10.1016/j.disc.2008.03.004](https://doi.org/10.1016/j.disc.2008.03.004).
64. S. CICHACZ, M. HORŇÁK, *Decomposition of bipartite graphs into closed trails*, Czechoslovak Mathematical Journal **59**, No. 1 (2009) 129–144.
65. S. CICHACZ, A. GÖRLICH, *The complete multigraphs and their decompositions into open trails*, Australasian Journal of Combinatorics **42** (2008) 159–164.
66. S. CICHACZ, J. PRZYBYŁO, M. WOŹNIAK, *Irregular edge-colorings of sums of cycles of even lengths*, Australasian Journal of Combinatorics **40** (2008) 41–56.
67. S. CICHACZ, T. WIEJA, *Application of the Flash MX program to computer visualization of the conics constructions in the Monge and Mapping projections*, 28. Konferencje o geometrii a grafice. Lednice : JČMF, (2008) 47–51.
68. S. CICHACZ, T. WIEJA, *Assessment of the properties of the Flash MX program in presentation of solid geometry problems*, Sborník 27. konference o geometrii a poctacov grafice, Nedvedice, Jihoceska Univerzita v Ceskych Budejovivich.
69. S. CICHACZ, T. WIEJA, *Computer Aided Teaching of Central Projection in the Flash MX Program*, Proceedings of Symposium on Computational Geometry SCG'2007 Kocovce September 2007, Bratislava 2007, 23–27.
70. S. CICHACZ, *Decomposition of complete bipartite digraphs and even complete bipartite multigraphs into closed trails*, Discussiones Mathematicae - Graph Theory **27 (2)** (2007) 241–249.

71. S. CICHACZ, T. SULIMA-SAMUJŁO, T. WIEJA, *Computer Aided Visualization of Problems Related to Polyhedra*, Proceedings of Symposium on Computational Geometry SCG'2006 Kocovce September 2006, Bratislava 2006, 24–28.
72. S. CICHACZ, I. A. ZIOŁO, *On arbitrarily vertex decomposable unicyclic graphs with dominating cycle*, *Discussiones Mathematicae - Graph Theory* **26** (3) (2006) 403–412.
73. S. CICHACZ, A. GÖRLICH, *Decomposition of complete bipartite graphs into open trails*, *Electronic Notes in Discrete Mathematics* **24** (2006) 53–55.
74. S. CICHACZ, A. GÖRLICH, A. MARCZYK, J. PRZYBYŁO, M. WOŹNIAK, *Arbitrarily vertex decomposable caterpillars with four or five leaves*, *Discussiones Mathematicae - Graph Theory* **26** (2) (2006) 291–305.
75. S. CICHACZ, T. SULIMA-SAMUJŁO, T. WIEJA, *Application of the Flash MX Program to Visualization of Selected Metric Problems*, Proceedings of Symposium on Computational Geometry SCG'2005 Kocovce September 2005, Bratislava 2005, 21–25.
76. S. CICHACZ, T. SULIMA-SAMUJŁO, *Application of B-spline to Representation of Selected Lines and Surfaces*, Proceedings of Symposium on Computational Geometry SCG'2004 Kocovce November 2004, Bratislava 2004, 21–26.
77. S. CICHACZ, *Applications of graph theory in static*, *Zeszyty Studenckiego Towarzystwa Naukowego - Laureaci V Edycji Konkursu Diamenty AGH*, Kraków 2004, 45–55.

SYLWIA CICHACZ-PRZENIOSŁO - LIST OF PREPRINTS

1. S. CICHACZ, C. HILAIRE, T. MASARÍK, J. MASARÍKOVÁ, M. MILANIČ, *Path Eccentricity and Forbidden Induced Subgraphs*, Preprint [arXiv:2503.15747](https://arxiv.org/abs/2503.15747) [math.CO] (2025).
2. S. CICHACZ, Š. MIKLAVIČ, *Group distance magic cubic graphs*, Preprint [arXiv:2503.01423](https://arxiv.org/abs/2503.01423) [math.CO] (2025).
3. S. CICHACZ, *Disjoint zero-sum subsets in Abelian groups and its application – survey*, Preprint [arXiv:2410.22245](https://arxiv.org/abs/2410.22245) [math.CO] (2024).
4. S. CICHACZ, A. GÖRLICH, K. SUCHAN, *Minimum k -critical-bipartite graphs: the irregular Case*, Preprint [arXiv:2307.07315](https://arxiv.org/abs/2307.07315) [math.CO] (2023).
5. S. CICHACZ, M. DZÚRIK, *Combinatorial spectra using polynomials*, Preprint [arXiv:2401.01680](https://arxiv.org/abs/2401.01680) [math.CO] (2023).
6. S. CICHACZ, B. KRUPIŃSKA, *Group irregularity strength of disconnected graphs*, Preprint [arXiv:2306.11914](https://arxiv.org/abs/2306.11914) [math.CO] (2023).
7. S. CICHACZ, *Irregular labeling on Abelian groups of digraphs*, Preprint [arXiv:2303.08712](https://arxiv.org/abs/2303.08712) [math.CO] (2023).

8. S. CICHACZ, A. GÖRLICH, M. NIKODEM, A. ŻAK, *(H; k)*-stability of graphs with maximum degree 2, submitted (2012).