



## RESEARCH WORK

Main topics: **functional equations and inequalities** with their applications; but also **real** and **functional analysis**

I am regularly (yearly) invited, with a talk, to participate in the International Symposia on Functional Equations (ISFE); in 2002 I have been awarded the ISFE Medal for outstanding contributions to the Symposium.

In last years, quite regularly I have been a reviewer for several mathematical journals; in 2009 I have already prepared over 20 reports for e.g.: *Abstract and Applied Mathematics*, *Acta Mathematica Hungarica*, *Advances in Difference Equations*, *Aequationes Mathematicae*, *Applied Mathematics Letters*, *Computers and Mathematics with Applications*, *Journal of Inequalities and Applications*, *Journal of Mathematical Analysis and Applications*, *Mathematical Inequalities and Applications*.

## MISCELLANEOUS

I have been a supervisor of three already promoted Ph.D. students and I am a supervisor of next two Ph.D. students at the moment.

I am the **Chairman of the Scientific Committee** of the series of conferences: *International Conference on Functional Equations and Inequalities* (ICFEI).

I have been the **Chairman of the Organizing Committee** of the 10th (2005), 11th (2006), 12th (2008) and 13th (2009) ICFEIs; the first three took place in the Banach Conference Center of Institute of Mathematics of the Polish Academy of Sciences in Będlewo (Poland).

I am the Chairman of the Organizing Committee of the next 14th ICFEI, which is planned for 2011 in the Banach Conference Center in Będlewo.

At the moment, I am a coeditor of a Springer volume (500 pages; collection of papers) dedicated to the 100th anniversary of S.M. Ulam.

## PUBLICATIONS

1. J. Brzdęk, *On solutions of a functional equation connected with some Lie groups*. Opuscula Mathematica 5 (1989), 43-47.
2. J. Brzdęk, *A remark to the paper by T. Marczewski*. Zeszyty Naukowe WSP w Rzeszowie 2/1 (1990), 19-24.
3. J. Brzdęk, *Subgroups of the Clifford group*. Aequationes Mathematicae 41 (1991), 123-135.
4. J. Brzdęk, *On solutions of the functional equation  $f(xf(y)l + yf(x)k) = tf(x)f(y)$* . Publicationes Mathematicae Debrecen 38 (1991), 175-183.
5. J. Brzdęk, *Subgroups of the group  $Z_n$  and a generalization of the Gołab-Schinzel functional equation*. Aequationes Mathematicae 43 (1992), 59-71.
6. J. Brzdęk, *On the Cauchy difference*. Glasnik Matematicki 27 (47) (1992), 263-269.
7. J. Brzdęk, *Subgroups of Clifford's group*. Zeszyty Naukowe Politechniki Śląskiej 67/1115 (1992), 113-121.
8. J. Brzdęk, *Some remarks on solutions of the functional equation  $f(x + f(x)ny) = tf(x)f(y)$* . Publicationes Mathematicae Debrecen 43 (1993), 147-160.
9. J. Brzdęk, *On a generalization of the Cauchy functional equation*. Aequationes Mathematicae 46 (1993), 56-75.
10. J. Brzdęk, *On functions satisfying some inequalities*. Abhandlungen aus dem Mathematischen Seminar der Universität Hamburg 63 (1993), 277-281.
11. J. Brzdęk, *Subgroups of the group  $L_n^1$  and functional equations*. Demonstratio Mathematica 27 (1994), 23-30.
12. J. Brzdęk, *On solutions of the Gołab-Schinzel functional equation*. Publicationes Mathematicae Debrecen 44 (1994), 235-241.
13. J. Brzdęk, *A note on stability of additive mappings*. In: Stability of mappings of Hyers-Ulam type, ed. Th. M. Rassias and J. Tabor, Hadronic Press, Palm Harbor, Florida, 1994, 19-22.

14. J. Brzdęk and A. Grabiec, *Remarks to the Cauchy difference*. In: Stability of mappings of Hyers-Ulam type, ed. Th. M. Rassias and J. Tabor, Hadronic Press, Palm Harbor, Florida, 1994, 23-30.
15. J. Brzdęk, *On some iteration semigroups*. Archivum Mathematicum (Brno) 31 (1995), 37-42.
16. J. Brzdęk, *On continuous solutions of some functional equations*. Glasnik Matematički 30 (50) (1995), 261-267.
17. J. Brzdęk, *On some conditional functional equations of Gołab-Schinzel type*. Annales Mathematicae Silesianae 9 (1995), 65-80.
18. J. Brzdęk, *The Cauchy and Jensen differences on semigroups*. Publicationes Mathematicae Debrecen 48 (1996), 117-136.
19. J. Brzdęk, *On the Baxter functional equation*. Aequationes Mathematicae 52 (1996), 105-111.
20. J. Brzdęk, *On the increasing solutions of the translation equation*. Annales Polonici Mathematici 64 (1996), 207-214.
21. J. Brzdęk, *The Christensen measurable solutions of a generalization of the Gołab-Schinzel functional equation*. Annales Polonici Mathematici 64 (1996), 195-205.
22. J. Brzdęk, *On almost additive mappings*. Bulletin of the Australian Mathematical Society 54 (1996), 281-290.
23. J. Brzdęk, *On functionals which are orthogonally additive modulo  $Z$* . Results in Mathematics 30 (1996), 25-38.
24. J. Brzdęk, *On the Cauchy difference on normed spaces*. Abhandlungen aus dem Mathematischen Seminar der Universität Hamburg 66 (1996), 143-150.
25. J. Brzdęk, *On orthogonally exponential and orthogonally additive mappings*. Proceedings of the American Mathematical Society 125 (1997), 2127-2132.
26. J. Brzdęk, *On orthogonally exponential functionals*. Pacific Journal of Mathematics 181 (1997), 247-267.
27. J. Brzdęk, *On measurable orthogonally exponential functions*. Archiv der Mathematik (Basel) 72 (1999), 185-191.

28. J. Brzdęk, *Bounded solutions of the Gołqb equation*. Aequationes Mathematicae 59 (2000), 248-254.
29. J. Brzdęk, *On the isosceles orthogonally exponential mappings*. Acta Mathematica Hungarica 87 (2000), 147-152.
30. J. Brzdęk, *On functions which are almost additive modulo a subgroup*. Glasnik Matematički 36 (56) (2001), 1-9.
31. J. Brzdęk, *On continuous solutions of a conditional Gołqb-Schinzel equation*. Anzeiger aus der Österreichische Akademie der Wissenschaften 138 (2001), 3-6 (2002).
32. J. Brzdęk, *On the continuous solutions of a generalization of the Gołqb-Schinzel equation*. Publicationes Mathematicae Debrecen 63 (2003), 421-429.
33. J. Brzdęk, *A generalization of addition formulae*. Acta Mathematica Hungarica 101 (2003), 281-291.
34. J. Brzdęk, J. Tabor, *Stability of the Cauchy congruence on restricted domain*. Archiv der Mathematik (Basel) 82 (2004), 546-550.
35. J. Brzdęk, *The Gołqb-Schinzel equation and its generalizations*. Aequationes Mathematicae 70 (2005), 14-24.
36. J. Brzdęk, A. Mureńko, *On a conditional Gołqb-Schinzel equation*. Archiv der Mathematik (Basel) 84 (2005), 503-511.
37. J. Brzdęk, *A remark on solutions of a generalization of the addition formulae*. Aequationes Mathematicae 71 (2006), 288-293.
38. J. Brzdęk, *Generalizations of some results concerning microperiodic mappings*. Manuscripta Mathematica 121 (2006), 265-276.
39. J. Brzdęk, B. Xu, D. Popa, *Note on nonstability of the linear recurrence*. Abhandlungen aus dem Mathematischen Seminar der Universität Hamburg 76 (2006), 183-189.
40. J. Brzdęk, A. Pietrzyk, *A note on stability of the general linear equation*. Aequationes Mathematicae 75 (2008), 267-270.
41. J. Brzdęk, B. Xu, D. Popa, *The Hyers-Ulam stability of nonlinear recurrences*. Journal of Mathematical Analysis and Applications 335 (2007), 443-449.

42. J. Brzdęk, *On approximately microperiodic mappings*. Acta Mathematica Hungarica 117 (2007), 179-186.
43. J. Brzdęk, N. Brillouët, *On continuous solutions and stability of a conditional Gółab-Schinzel equation*. Publicationes Mathematicae Debrecen 72 (2008), 441-450.
44. J. Brzdęk, B. Xu, D. Popa, *Hyers-Ulam stability for linear equations of higher order*. Acta Mathematica Hungarica 120 (2008), 1-8.
45. J. Brzdęk, *On continuity of measurable homomorphisms*. Bulletin of the Australian Mathematical Society 78 (2008), 171-176.
46. J. Brzdęk, *On solutions of a generalization of the Reynolds functional equation*. Demonstratio Mathematica 41 (2008), 859-868.
47. N. Brillouët, J. Brzdęk, J. Chudziak, *On continuous solutions of a class of conditional equations*. Publicationes Mathematicae Debrecen 75 (2009), 11-22.
48. J. Brzdęk, *On the quotient stability of a family of functional equations*. Nonlinear Analysis Series A: Theory, Methods & Applications 71 (2009), 4396-4404.
49. J. Brzdęk, *On a method of proving the Hyers-Ulam stability of functional equations on restricted domains*. The Australian Journal of Mathematical Analysis and Applications Volume 6, Issue 1, Article 4 (2009), 1-10.
50. J. Brzdęk, *A note on stability of the Popoviciu functional equation on restricted domain*. Demonstratio Mathematica - in print.