

1. Curriculum Vitae

1.a. Personal data

Name:	Zsolt Páles
Rank:	Full Professor
Date of Birth:	March 6, 1956
Place of Birth:	Sátoraljaújhely (Hungary)
Wife:	Hajnalka Csufor
Children:	Csaba (1980.08.24), Zsófia (1985.02.19)
Nationality:	Hungarian
E-mail:	pales@math.klte.hu

1.b. Studies

1962.06.12–1970.06.13: Esze Tamás Primary School, Sátoraljaújhely.
1970.06.15–1974.05.10: Kossuth Lajos Gymnasium, Sátoraljaújhely.
1975.09.06–1980.05.06: Kossuth Lajos University, Debrecen.
1984.03.01–1987.02.28: Postdoctoral Studies, Hungarian Academy of Sciences, Budapest.
1984.09.05–1986.04.30: Kossuth Lajos University, Debrecen.

1.c. Degrees

- M. Sc. in Mathematics, Faculty of Natural Sciences, Kossuth Lajos University, Debrecen, 1980.
- Doctor of Univ. in Mathematics, Institute of Mathematics, Kossuth Lajos University, Debrecen, 1982.
- Certificated English–Hungarian Specialist Translator (in Mathematics), Faculty of Natural Sciences, Kossuth Lajos University, Debrecen, 1986.
- Candidate of Science, Hungarian Academy of Sciences, Budapest, 1987.
- Ph.D. in Mathematics, Institute of Mathematics, Kossuth Lajos University, Debrecen, 1997.
- Doctor of Science, Hungarian Academy of Sciences, Budapest, 2001.
- Habilitation, University of Debrecen, Debrecen, 2001.

1.d. Knowledge of Languages

- English (written, read, spoken)
- German (written, read, spoken)
- Russian (read, spoken)

1.e. Employment History

- 1980.09.01–1982.07.31: Postgraduate Scholarship, Institute of Mathematics, Kossuth Lajos University, Debrecen.
- 1982.08.01–1984.02.28: Lecturer, Institute of Mathematics, Kossuth Lajos University, Debrecen.
- 1984.03.01–1987.02.28: Postdoctoral Fellow, Hungarian Academy of Sciences, Budapest.
- 1984.04.01–1986.05.31: Part Time Lecturer, Institute of Mathematics, Kossuth Lajos University, Debrecen.
- 1986.09.01–1987.06.30: Part Time Lecturer, Chair of Mathematics, Bessenyei College, Nyíregyháza.
- 1987.03.01–1988.06.30: Lecturer, Institute of Mathematics, Kossuth Lajos University, Debrecen.
- 1988.07.01–1989.06.30: Assistant Professor, Institute of Mathematics, Kossuth Lajos University, Debrecen.
- 1989.07.01–2002.06.30: Associate Professor, Institute of Mathematics and Informatics, Kossuth Lajos University/University of Debrecen, Debrecen.
- 2002.07.01–2003.06.30: Professor, Institute of Mathematics and Informatics, University of Debrecen, Debrecen.
- 2003.07.01– : Professor, Institute of Mathematics, University of Debrecen, Debrecen.

1.f. Functions

- 1993: Member of the Editorial Board of the *Publicationes Mathematicae Debrecen*.
- 1993: Member of the Editorial Board of the *Matematikai Lapok*.
- 1996: Member of the Editorial Board of *Aequationes Mathematicae*.
- 1997: Member of the Editorial Board of *Mathematical Inequalities and Applications*.
- 1999: Member of the Editorial Board of *Journal of Inequalities in Pure and Applied Mathematics*.
- 2003: Editor in Chief of the journal *Alkalmazott Matematikai Lapok* (*Journal of Applied Mathematics*).
- 2004: Member of the Editorial Board of *Acta Mathematica Academiae Paedagogicae Nyíregyháziensis*.
- 2004: Member of the Editorial Board of the *Carpathian Journal of Mathematics*.
- 2006.07.01–2010.06.30: Member of the Engineering and Natural Sciences Committee of the Hungarian Research Fund (OTKA)
- 2007.01.01–2009.12.31: Member of the DSc Committee of the Mathematical Department of the Hungarian Academy of Sciences.
- 2007.07.01–2010.06.30: Chairman of the Chair of Analysis of the University of Debrecen.
- 2008.07.01–2013.06.30: Editor in Chief of the journal *Aequationes Mathematicae*.
- 2008.06.27: Member of the Scientific Board of the International Symposium on Functional Equations (ISFE).
- 2008.07.01: Director of the PhD School of Mathematics and Computational Sciences of the University of Debrecen.
- 2008.09.12: Member of the Scientific Board of the International Conference on Functional Equations and Inequalities (ICFEI).

1.g. Functions completed

- 1992.01.01–1995.12.31. Elected Member of the University Council of the Kossuth Lajos University.
- 1994.10.09–1996.10.09. Elected Member of the Mathematical Committee of the Hungarian Academy of Sciences.
- 1996.11.01–1999.10.30. Secretary of the Local Mathematical Committee of the Hungarian Academy of Sciences in Debrecen.
- 1994.07.01–2001.06.30. Chairman of the Chair of Analysis.
- 1998.07.01–2001.06.30. Vice-director of the Faculty of Natural Sciences of the Hatvani István College of the University of Debrecen.
- 2000.07.01–2003.06.30: Member of the Scientific Committee of the Bolyai János Mathematical Society.
- 2001.07.01–2003.06.30: Director of the Institute of Mathematics and Informatics of the University of Debrecen.
- 2002.07.01–2004.06.30: Member of the Scientific Committee of the Hungarian Operations Research Society.
- 2001.03.12–2006.12.31: Member of the Bolyai János Research Fellowship Committee

1.h. Memberships

- 1980: Bolyai János Mathematical Society
- 1992: Hungarian Humboldt Society
- 1993: American Mathematical Society
- 1998: Research Group in Mathematical Inequalities and Applications (internet group)
- 1998: Working Group on Generalized Convexity (internet group)
- 1999: Hungarian Operations Research Society

1.i. Prizes

- Rényi Kató Memorial Prize, 1980.06.05.
- Grünwald Géza Memorial Prize, 1983.12.16.
- Alexits György Prize, 1992.04.01.
- Prize for the best contribution at the 34th International Symposium on Functional Equations, Wisła Jawornik, Poland, 1996.06.19.
- Széchenyi Professorship, 1997.05.05.
- 1st prize of the *Marek Kuczma competition* in 1998 awarded for the paper [70] written jointly with K. Nikodem.
- Bolyai Farkas Prize of the Arany János Foundation, 2000.11.04.
- Széchenyi István Scholarship, 2001.08.20.
- Titular Professor, György Bessenyei Teacher's Training College, Nyíregyháza, 2002.06.20.
- Prize of the Hungarian Academy of Sciences, 2004.05.03.

1.j. Conference and Competition Organization

- Schweitzer Miklós Memorial Competition, Secretary, 1985.
- 3rd International Symposium on Functional Equations and Inequalities, Noszvaj, Hungary, Member of the Organizing Comitee, 1986. September 21–27.
- 29th International Symposium on Functional Equations, Wolfville, Canada, Secretary, 1991. June 3–10.
- 31st International Symposium on Functional Equations, Debrecen, Hungary, Member of the Organizing Comitee, 1993. August 22–28.
- 2nd Debrecen–Graz Seminar, Zamárdi, Hungary, Organizer, 1995. May 11–14.
- 1st Analysis Miniseminar, Debrecen, Hungary, Organizer, 1997. January 22.
- Numbers, Functions, Equations '98 (On the occasion of the 60th birthday of Zoltán Daróczy and Imre Kátai), Noszvaj, Hungary, Organizer, 1998. May 31–June 6.
- 2nd Analysis Miniseminar, Debrecen, Hungary, Organizer, 1999. January 25.
- 38th International Symposium on Functional Equations, Noszvaj, Hungary, Organizer, 2000. June 11–18.
- 3rd Analysis Miniseminar (On the occasion of László Losonczy's 60th birthday), Debrecen, Hungary, Organizer, 2001. October 13.
- 25th Meeting of the Hungarian Operations Research Society, Debrecen, Hungary, Member of the Organizing Committee, 2001. October 17–20.
- 2nd Debrecen–Katowice Winter Seminar on Functional Equations and Inequalities, Hajdúszoboszló, Hungary, Organizer, 2002. January 29–February 1.
- General Inequalities 8, Noszvaj, Hungary, Organizer, 2002. September 15–21.
- Numbers, Functions, Equations '03, (On the occasion of the 60th birthday of Karl-Heinz Indlekofer) Noszvaj, Hungary, Organizer, 2003. January 22–25.
- 41st International Symposium on Functional Equations, Noszvaj, Hungary, Organizer, 2003. June 8–15.
- 4th Debrecen–Katowice Winter Seminar on Functional Equations and Inequalities, Mátraháza, Hungary, Organizer, 2004. February 4–7.
- 5th Joint Conference on Mathematics and Computer Science, Debrecen, Hungary, Organizer, 2004. June 9–12.
- 6th Joint Conference on Mathematics and Computer Science, Pécs, Hungary, Member of the Organizing Committee, 2006. July 12–15.
- Veszprém Optimization Conference: Advanced Algorithms, Veszprém Hungary, Member of the Scientific Committee, 2006. December 13–15.
- Conference on Inequalities and Applications '07, Noszvaj, Hungary, Organizer, 2007. September 9–15.
- 8th Debrecen–Katowice Winter Seminar on Functional Equations and Inequalities, Berekfürdő, Hungary, Organizer, 2008. January 30–February 2.
- Gyula 60 — Workshop on Functional Equations, Inequalities and Applications (On the occasion of Gyula Maksa's 60th birthday), Debrecen, Hungary, Organizer, 2008. April 24.
- Numbers, Functions, Equations '08, (On the occasion of the 70th birthday of Zoltán Daróczy and Imre Kátai) Noszvaj, Hungary, Organizer, 2008. June 15–21.
- 7th Joint Conference on Mathematics and Computer Science, Cluj Napoca, Romania, Member of the Organizing Committee, 2008. July 3–6.
- Veszprém Optimization Conference: Advanced Algorithms, Veszprém Hungary, Member of the Scientific Committee, 2008. December 10–13.

1.k. Teaching Experience

Real and Complex Analysis, Measure Theory and Orthogonal Series, Functional Analysis, Ordinary and Partial Differential Equations, Optimal Control Theory, Mathematical Programming, Fixed Point Theory Variational Inequalities, Convex and Nonsmooth Analysis, Set-valued Analysis.

1.1. Fields of Interest

Functional Equations and Inequalities, Convex Analysis, Functional Analysis, Set-valued analysis, Nonlinear Functional Analysis, Nonlinear Optimization, Optimal Control Theory, Mathematical Programming.

2. Publications

2.a. Papers in referred journals and proceedings

- [1] Z. Daróczy — Zs. Páles, *On comparison of mean values*, Publ. Math. Debrecen **29** (1982), 107-116.
- [2] Zs. Páles, *Characterization of quasideviation means*, Acta Math. Hungar. **40** (1982), 243-260.
- [3] Zs. Páles, *A generalization of the Minkowski inequality*, J. Math. Anal. Appl. **90** (1982), 456-462.
- [4] Zs. Páles, *Inequalities for homogeneous means depending on two parameters*, *General Inequalities 3*, (Oberwolfach, 1981), (eds. E. F. Beckenbach — W. Walter), Internat. Ser. Numer. Math. Vol. **64**, Birkhäuser Verlag, Basel-Boston-Stuttgart, 1983, 107-122.
- [5] Z. Daróczy — Zs. Páles, *Multiplicative mean values and entropies*, *Colloquia Math. Soc. J. Bolyai 35., Functions, Series, Operators*, (Budapest, 1980), North Holland, Amsterdam-New York, 1983, 343-359.
- [6] Zs. Páles, *On complementary inequalities*, Publ. Math. Debrecen **30** (1983), 75-88.
- [7] Zs. Páles, *On Hölder-type inequalities*, J. Math. Anal. Appl. **95** (1983), 457-466.
- [8] Zs. Páles, *On the characterization of means defined on a linear space*, Publ. Math. Debrecen **31**(1984), 19-27.
- [9] Zs. Páles, *Inequalities for comparison of means*, *General Inequalities 4*, (Oberwolfach, 1983), (ed. W. Walter), Internat. Ser. Numer. Math. Vol. **71**, Birkhäuser Verlag, Basel-Boston-Stuttgart, 1984, 59-73.
- [10] Zs. Páles, *Ingham-Jessen's inequality for deviation means*, Acta Sci. Math. (Szeged) **49** (1985), 131-142.
- [11] Zs. Páles, *On inequalities for products of power sums*, Monatsh. Math. **100** (1985), 131-142.
- [12] Z. Daróczy — Zs. Páles, *Generalized homogeneous deviation means*, Publ. Math. Debrecen **33** (1986), 53-65.
- [13] Zs. Páles, *On the separation of midpoint convex sets*, C. R. Math. Rep. Acad. Sci. Canada **8** (1986), 309-312.
- [14] Zs. Páles, *Hölder-type inequalities for quasiarithmetic means*, Acta Math. Hungar. **47** (1986), 395-399.
- [15] Zs. Páles — Á. Szász, *A Hahn-Banach féle invariáns kiterjesztési tétel is élesíthető*, (*The Hahn-Banach invariant extension theorem can also be sharpened*, in Hungarian), Mat. Lapok **33** (1986), 35-37.
- [16] B. Brindza — Zs. Páles, *Jelentés az 1985. évi Schweitzer Miklós Emlékversenyéről* (*Report on the Schweitzer Miklós Competition*, in Hungarian), Matematikai Lapok **33** (1986), 149-169.
- [17] Zs. Páles, *On the characterization of quasiarithmetic means with weight function*, Aequationes Math. **32** (1987), 171-194.
- [18] Zs. Páles, *How to make fair decisions?*, *General Inequalities 5*, (Oberwolfach, 1986), (ed. W. Walter), Internat. Ser. Numer. Math. Vol. **80**, Birkhäuser Verlag, Basel-Boston-Stuttgart, 1987, 439-450.
- [19] Zs. Páles, *A generalization of Young's inequality*, *General Inequalities 5*, (Oberwolfach, 1986), (ed. W. Walter), Internat. Ser. Numer. Math. Vol. **80**, Birkhäuser Verlag, Basel-Boston-Stuttgart, 1987, 471-472.
- [20] J. Aczél — L. Losonczi — Zs. Páles, *The behaviour of comprehensive classes of means, under equal increments of their variables*, *General Inequalities 5*, (Oberwolfach, 1986), (ed. W. Walter), Internat. Ser. Numer. Math. Vol. **80**, Birkhäuser Verlag, Basel-Boston-Stuttgart, 1987, 459-461.
- [21] Z. Daróczy — Zs. Páles, *Convexity with given infinite weight sequences*, Stochastica **9** (1987), 5-12.
- [22] J. Aczél — Zs. Páles, *On the behaviour of means under equal increments of their variables*, Amer. Math. Monthly **95** (1988), 856-860.
- [23] Zs. Páles, *On Pexider-type functional equations for quasideviation means*, Acta Math. Hungar. **51** (1988), 205-224.
- [24] Zs. Páles, *On two variable functional inequalities*, C. R. Math. Rep. Acad. Sci. Canada **10** (1988), 25-28.
- [25] Zs. Páles, *Inequalities for differences of powers*, J. Math. Anal. Appl. **131** (1988), 271-281.
- [26] Zs. Páles, *Inequalities for sums of powers*, J. Math. Anal. Appl. **131** (1988), 265-270.
- [27] Zs. Páles, *Remarks on generalized homogeneous deviation means*, Publ. Math. Debrecen **35** (1988), 17-20.
- [28] Zs. Páles, *General inequalities for quasideviation means*, Aequationes Math. **36** (1988), 32-56.
- [29] Zs. Páles, *On homogeneous quasideviation means*, Aequationes Math. **36** (1988), 132-152.
- [30] Zs. Páles, *Hahn-Banach theorem for separation of semigroups and its applications*, Aequationes Math. **37** (1989), 141-161.
- [31] Zs. Páles, *A Stone-type theorem for Abelian semigroups*, Arch. Math. (Basel) **52** (1989), 265-268.
- [32] Zs. Páles, *A generalization of the Dubovitskii-Milyutin separation theorem for Abelian semigroups*, Arch. Math. (Basel) **52** (1989), 384-392.
- [33] Gy. Maksa — Zs. Páles, *On Hosszú's functional inequality*, Publ. Math. Debrecen **36** (1989), 187-189.
- [34] R. Craigen — Zs. Páles, *The associativity equation revisited*, Aequationes Math. **37** (1989), 306-312.
- [35] Zs. Páles — P. Volkmann, *A characterization of a class of means*, C. R. Math. Rep. Acad. Sci. Canada **11** (1989), 221-224.
- [36] B. Forte — W. Hughes — Zs. Páles, *Maximum entropy estimators and the problem of moments*, Rend. Mat. Appl. (7) **9**(4) (1989), 689-699.
- [37] Zs. Páles, *On comparison of homogeneous means*, Ann. Univ. Sci. Budapest. Eötvös Sect. Math. **32**(1989), 261-266.
- [38] Zs. Páles, *Essential inequalities for means*, Period. Math. Hungar. **21** (1990), 9-16.

- [39] Zs. Páles, *On Young-type inequalities*, Acta Sci. Math. (Szeged) **54** (1990), 327-338.
- [40] Zs. Páles, *Inequalities for sums of multipowers*, Acta Math. Hungar. **56** (1990), 165-175.
- [41] Zs. Páles, *On the convergence of means*, J. Math. Anal. Appl. **156** (1991), 52-60.
- [42] Gy. Maksa — K. Nikodem — Zs. Páles, *Results on t -Wright convexity*, C. R. Math. Rep. Acad. Sci. Canada **13** (1991), 274-278.
- [43] Zs. Páles, *Comparison of two variable homogeneous means*, General Inequalities 6, (Oberwolfach, 1990), (ed. W. Walter), Internat. Ser. Numer. Math. Vol. **103**, Birkhäuser Verlag, Basel-Boston-Stuttgart, 1992, 59-70.
- [44] Zs. Páles, *On a generalization of the plank problem*, General Inequalities 6, (Oberwolfach, 1990), (ed. W. Walter), Internat. Ser. Numer. Math. Vol. **103**, Birkhäuser Verlag, Basel-Boston-Stuttgart, 1992, 473-476.
- [45] L. Losonczi — Zs. Páles, *A simple proof for a quadratic inequality*, General Inequalities 6, (Oberwolfach, 1990), (ed. W. Walter), Internat. Ser. Numer. Math. Vol. **103**, Birkhäuser Verlag, Basel-Boston-Stuttgart, 1992, 445-447.
- [46] Zs. Páles, *On reduction of linear two variable functional equations to differential equations without substitutions*, Aequationes Math. **43** (1992), 236-247.
- [47] Zs. Páles, *A general version of Young's inequality*, Arch. Math. (Basel) **58** (1992), 360-365.
- [48] Zs. Páles, *The twenty-ninth international symposium on functional equations* (Wolfville, Nova Scotia, 1991), Aequationes Math. **43** (1992), 264-309.
- [49] Zs. Páles, *A unified form of the classical mean value theorems*, in: *Inequalities and Applications* (ed. by R. P. Agarwal), World Scientific Publ., Singapore-New Jersey-London-Hong Kong, 1994, 493-500.
- [50] Zs. Páles, *Inverse function theorems for nonsmooth mappings in Banach spaces*, in: *Operation Research '93*, (Köln, 1993), (ed. by A. Bachem — U. Derigs — M. Jünge — R. Schrader), Physica Verlag, 1994, 385-388.
- [51] Zs. Páles, *Linear selections for set-valued functions and extension of bilinear forms*, Arch. Math. (Basel) **62** (1994), 427-432.
- [52] Zs. Páles — V. Zeidan, *Nonsmooth optimum problems with constraints*, SIAM J. Control Optim. **32** (1994), 1476-1502.
- [53] Zs. Páles, *General necessary and sufficient conditions for constrained optimum problems*, Arch. Math. (Basel) **63** (1994), 238-250.
- [54] Zs. Páles, *Bounded solutions and stability of functional equations for two variable functions*, Results Math. **26** (1994), 360-365.
- [55] Zs. Páles — V. Zeidan, *First and second order necessary conditions for control problems with constraints*, Trans. Amer. Math. Soc. **346** (1994), 421-455.
- [56] Zs. Páles — V. Zeidan, *Necessary conditions for optimal control problems with different constraints*, Proc. of the 33rd Conference on Decision and Control, Lake Buena Vista, Florida. Vol. 4, 1994, 3998-4003.
- [57] Zs. Páles, *Separation with symmetric bilinear forms and symmetric selections of set-valued functions*, Publ. Math. Debrecen **46** (1995), 321-331.
- [58] Zs. Páles — V. Zeidan, *Separation via quadratic functions*, Aequationes Math. **51** (1996), 209-229.
- [59] Zs. Páles — V. Zeidan, *Second order conditions for nonsmooth optimum problems with constraints*, World Congress of Nonlinear Analysts '92, (Proceedings of the First World Congress of Nonlinear Analysts, Tampa, Florida, 1992), (Ed. V. Lakshmikantham), Walter de Gruyter, Berlin-New York, 1996, pp. 2337-2346.
- [60] W. Förg-Rob — K. Nikodem — Zs. Páles, *Separation by monotonic functions*, Math. Pannon. **7** (1996), 191-196.
- [61] Zs. Páles — V. Zeidan, *Generalized Hessian for $C^{1,1}$ functions in infinite dimensional normed spaces*, Math. Programming **74** (1996), 59-78.
- [62] L. Losonczi — Zs. Páles, *Minkowski's inequality for two variable Gini means*, Acta Sci. Math. (Szeged) **62** (1996), 413-425.
- [63] Zs. Páles, *Notes on mean value theorems*, in *Contributions to the Theory of Functional Equations II* (eds. D. Gronau and Zs. Páles), Grazer Math. Ber. **327** (1996), 17-20.
- [64] L. Losonczi — Zs. Páles, *Inequalities for indefinite forms*, J. Math. Anal. Appl. **205** (1997), 148-156.
- [65] Zs. Páles, *Separation by semidefinite bilinear forms*, General Inequalities 7, (Oberwolfach, 1995), (eds. C. Bandle — W. N. Everitt — L. Losonczi — W. Walter), Internat. Ser. Numer. Math. Vol. **123**, Birkhäuser Verlag, Basel-Boston-Stuttgart, 1997, pp. 259-267.
- [66] Zs. Páles, *Inverse and implicit function theorems for nonsmooth maps in Banach spaces*, J. Math. Anal. Appl. **209** (1997), 202-220.
- [67] S. S. Dragomir — B. Mond — Zs. Páles, *On a superadditivity property of Gram's determinant*, Aequationes Math. **54** (1997), 199-204.
- [68] Zs. Páles — V. Zeidan, *On the representation of certain bilinear forms on $C(T)$ and $L^\infty(T)$* , Acta Sci. Math. (Szeged) **63** (1997), 497-511.
- [69] L. Losonczi — Zs. Páles, *Minkowski's inequality for two variable difference means*, Proc. Amer. Math. Soc. **126** (1998), 779-791.
- [70] K. Nikodem — Zs. Páles, *A characterization of midpoint-quasiaffine functions*, Publ. Math. Debrecen **52** (1998), 575-595.

- [71] Zs. Páles, *First and higher order necessary conditions for optimization problems via a Dubovitskii-Milytin type approach*, Proc. of the 1998 Baikal International Summer School on Optimization, *Optimization Methods and their Applications* (ed. V. P. Bulatov), Institute of Energy Systems, Irkutsk, 1998, 193-204.
- [72] Zs. Páles, *Generalized stability of the Cauchy functional equation*, Aequationes Math. **56** (1998), 222-232.
- [73] Zs. Páles — V. Zeidan, *Optimum problems with certain lower semicontinuous set-valued constraints*, SIAM J. Optim. **8** (1998), 707-727.
- [74] Zs. Páles — P. Volkman — D. Luce, *Stability of functional equations with square-symmetric operations*, Proc. Natl. Acad. Sci. U.S.A. **95** (1998), 12772-12775.
- [75] Zs. Páles, *Geometric versions of Rodé's theorem*, Rad. Mat. **8** (1992/1998), 1-13.
- [76] G. Kassay — Zs. Páles, *A localized version of Ky Fan's minimax inequality*, Nonlinear Anal., Theory, Methods, Appl. **35** (1999), 505-515.
- [77] G. Kassay — J. Kolumbán — Zs. Páles, *On Nash stationary points*, Publ. Math. Debrecen **54** (1999), 267-279.
- [78] J. Aczél — Gy. Maksa — Zs. Páles, *Solutions to a functional equation arising from different ways of measuring utility*, J. Math. Anal. Appl. **233** (1999), 740-748.
- [79] Zs. Páles — V. Zeidan, *On L^1 -closed decomposable sets in L^∞ in Systems modelling and optimization (Detroit, MI, 1997)*, Chapman & Hall/CRC, Boca Raton, FL, 1999, pp. 198-206,
- [80] Zs. Páles — V. Zeidan, *Characterization of closed and open C -convex sets in $C(T, \mathbf{R}^r)$* , Acta Sci. Math. (Szeged) **65** (1999), 339-357.
- [81] R. Badora — Zs. Páles — L. Székelyhidi, *Monomial selection of set-valued maps*, Aequationes Math. **58** (1999), 214-222.
- [82] Zs. Páles — V. Zeidan, *Characterization of L^1 -closed decomposable sets in L^∞* , J. Math. Anal. Appl. **238** (1999), 491-515.
- [83] Zs. Páles, *Strong Hölder and Minkowski inequalities for quasiarithmetic means*, Acta Sci. Math. (Szeged) **65** (1999), 493-503.
- [84] K. Nikodem — Zs. Páles — Sz. Wąsowicz, *Abstract separation theorems of Rodé type and their applications*, Ann. Polon. Math. **72**(3) (1999), 207-217.
- [85] Zs. Páles, *Nonconvex functions and separation by power means*, Math. Inequal. Appl. **3** (2000), 169-176.
- [86] Gy. Maksa — A. A. J. Marley — Zs. Páles, *On a functional equation arising from joint-receipt utility models*, Aequationes Math. **59** (2000), 273-286.
- [87] P. Czinder — Zs. Páles, *A general Minkowski-type inequality for two variable Gini means*, Publ. Math. Debrecen **57** (2000), 203-216.
- [88] K. Nikodem — Zs. Páles — Sz. Wąsowicz, *Multifunctions with selections of convex and concave type*, Math. Pannon. **11** (2000), 249-292.
- [89] Z. Daróczy — Gy. Maksa — Zs. Páles, *Extension theorems for the Matkowski-Sutô problem*, Demonstratio Math. **33** (2000), 547-556.
- [90] Zs. Páles, *Bernstein-Doetsch-type results for general functional inequalities*, dedicated to Zenon Moszner's 70th birthday, Rocznik Nauk.-Dydakt. Prace Mat. **17** (2000), 197-206.
- [91] Z. Boros — Zs. Páles — P. Volkman, *On stability for the Jensen equation on intervals*, Aequationes Math. **60** (2000), 291-297.
- [92] Zs. Páles — V. Zeidan, *Optimum problems with measurable set-valued constraints*, SIAM J. Optim. **11** (2000), 426-443.
- [93] Z. Daróczy — Zs. Páles, *On means that are both quasi-arithmetic and conjugate arithmetic*, Acta Math. Hungar. **90** (2001), 271-282.
- [94] J. Aczél — Gy. Maksa — Zs. Páles, *Solution of a functional equation arising in an axiomatization of the utility of binary gambles*, Proc. Amer. Math. Soc. **129** (2001), 483-493.
- [95] J. Aczél — Gy. Maksa — C. T. Ng — Zs. Páles, *A functional equation arising from ranked additive and separable utility*, Proc. Amer. Math. Soc. **129** (2001), 989-998.
- [96] L. Molnár — Zs. Páles, *\perp -order automorphisms of Hilbert space effect algebras: the 2-dimensional case*, J. Math. Phys. **42** (2001), 1907-1912.
- [97] Zs. Páles, *Hyers-Ulam stability of the Cauchy functional equation on square-symmetric groupoids*, Publ. Math. Debrecen **58** (2001), 651-666.
- [98] Zs. Páles, *Separation theorems for convex sets and convex functions with invariance properties*, in *Generalized Convexity and Generalized Monotonicity (Proceedings of the 6th International Symposium on Generalized Convexity/Monotonicity, Samos, 1999)* (eds. N. Hadjisavvas, J. E. Martínez-Legaz and J.-P. Penot), Lect. Notes in Econ. and Math. Systems, vol. 502, Springer Verlag, Berlin-Heidelberg, 2001, pp. 279-293.
- [99] Z. Daróczy — Zs. Páles, *On a class of means of several variables*, Math. Inequal. Appl. **4** (2001), 331-341.
- [100] Gy. Maksa — Zs. Páles, *Hyperstability of a class of linear functional equations*, Acta Math. Acad. Paedagog. Nyházi. (N.S.) **17** (2001), 107-112.

- [101] Zs. Páles — V. Zeidan, *The critical tangent cone in second-order conditions for optimal control*, (*Third World Congress of Nonlinear Analysts*), *Nonlinear Anal., Theory, Methods, Appl.* **47** (2001), 1149-1161.
- [102] Zs. Páles, *Separation by approximately convex functions*, in *Contributions to the Theory of Functional Equations II* (eds. D. Gronau and L. Reich), *Grazer Math. Ber.* **344** (2001), 43-50.
- [103] A. Gilányi — Zs. Páles, *A regularity theorem for composite functional equations*, *Arch. Math. (Basel)* **77** (2001), 317-322.
- [104] K. Nikodem — Zs. Páles, *On approximately Jensen-convex and Wright-convex functions*, *C. R. Math. Rep. Acad. Sci. Canada* **23** (2001), 141-147.
- [105] Zs. Páles, *Új módszerek a függvényegyenletek regularitáselméletében*(*New methods in the regularity theory of functional equations*), (in Hungarian), *Talks at the Academy*, May 2000, Vol. II, Hungarian Academy of Sciences, 2001, 415-432.
- [106] Zs. Páles, *Az optimum első- és magasabb rendű feltételei*(*First- and higher-order conditions of optimality*), (in Hungarian), *Talks at the Academy*, May 2000, Vol. II, Hungarian Academy of Sciences, 2001, 565-574.
- [107] Z. Daróczy — Zs. Páles, *A Matkowski-Sutô type problem for quasi-arithmetic means of order α* , *Functional Equations — Results and Advances* (eds. Z. Daróczy — Zs. Páles), *Kluwer Acad. Publ.*, Dordrecht, *Advances in Math.* Vol. 3, 2002, pp. 189-200.
- [108] K. Lajkó — Zs. Páles, *On a Mikusiński–Jensen functional equation*, *Functional Equations — Results and Advances* (eds. Z. Daróczy — Zs. Páles), *Kluwer Acad. Publ.*, Dordrecht, *Advances in Math.* Vol. 3, 2002, pp. 81-87.
- [109] Zs. Páles, *Problems in the regularity theory of functional equations*, *Aequationes Math.* **63** (2002), 1-17.
- [110] Zs. Páles, *Extension theorem for functional equations with bisymmetric operations*, *Aequationes Math.* **63** (2002), 266-291.
- [111] Z. Daróczy — Zs. Páles, *Gauss composition of means and the solution of the Matkowski-Sutô problem*, *Publ. Math. Debrecen* **61** (2002), 157-218.
- [112] A. Gilányi — Zs. Páles, *On Dinghas-type derivatives and convex functions of higher-order*, *Real Anal. Exchange* **27** (2001/2002), 485-493.
- [113] G. Kassay — J. Kolumbán — Zs. Páles, *Factorization of Minty and Stampacchia variational inequality systems*, *Europ. J. Oper. Res.* **143** (2002), 377-389.
- [114] M. Bessenyei — Zs. Páles, *Higher-order generalizations of Hadamard's inequality*, *Publ. Math. Debrecen* **61** (2002), 623-643.
- [115] Zs. Páles — V. Zeidan, *Strong local optimality conditions for control problems with mixed state-control constraints*, *Proceedings of the 41st IEEE Conference on Decision and Control*, 2002, pp. 4738-4743.
- [116] Zs. Páles, *On approximately convex functions*, *Proc. Amer. Math. Soc.* **131** (2003), 243-252.
- [117] E. Neuman — Zs. Páles, *On comparison of Stolarsky and Gini means*, *J. Math. Anal. Appl.* **278** (2003), 274-285.
- [118] R. Badora — R. Ger — Zs. Páles, *Additive selections and the stability of the Cauchy functional equation*, *ANZIAM J.* **44** (2003), 323-337.
- [119] Z. Daróczy — Zs. Páles, *On functional equations involving means*, *Publ. Math. Debrecen* **62** (2003), 363-377.
- [120] P. Czinder — Zs. Páles, *Minkowski-type inequalities for two variable Stolarsky means*, *Acta Sci. Math. (Szeged)* **69** (2003), 27-47.
- [121] M. Adamek — K. Nikodem — Zs. Páles, *On (K, λ) -convex set-valued maps*, *Rad. Mat.* **11** (2002/03), 183-191.
- [122] Z. Daróczy — Zs. Páles, *The Matkowski-Sutô type problem for weighted quasi-arithmetic means*, *Acta Math. Hungar.* **100** (2003), 237-243.
- [123] M. Bessenyei — Zs. Páles, *Hadamard-type inequalities for generalized convex functions*, *Math. Inequal. Appl.* **6**(3) (2003), 379-392.
- [124] Z. Daróczy — Zs. Páles, *Középértékek Gauss-féle kompozíciója és a Matkowski-Sutô probléma megoldása*, *Mat. Lapok* 1998-99 (2003), No. 3-4, 1-53.
- [125] Zs. Páles, *A regularity theorem for composite functional equations*, *Acta Sci. Math. (Szeged)* **69** (2003), 591-604.
- [126] Z. Daróczy — Zs. Páles, *A Matkowski–Sutô-type problem for weighted quasi-arithmetic means*, *Ann. Univ. Sci. Budapest. Sect. Comput.* **22** (2003), 69-81.
- [127] Zs. Páles — V. Zeidan, *Optimal control problems with set-valued control and state constraints*, *SIAM J. Optim.* **14** (2003), 334-358.
- [128] Zs. Páles, *Report of the General Inequalities 8 Conference*, Noszvaj, Hungary, 2002, September 15-21, *J. Inequal. Pure Appl. Math.* **4**(3) (2003), Art. 49, pp. 1-30.
- [129] A. Háy — Zs. Páles, *On approximately midconvex functions*, *Bull. London Math. Soc.* **36** (2004), 339-350.
- [130] Zs. Páles — V. Zeidan, *Critical and critical tangent cones in optimization problems*, *Set-Valued Anal.* **12** (2004), 241-258.

- [131] Z. Daróczy — Gy. Maksa — Zs. Páles, *On two-variable means with variable weights*, Aequationes Math. **67** (2004), 154-159.
- [132] Zs. Páles — V. Zeidan, *Strong local optimality conditions for state constrained control problems*, J. Global Optim. **28** (2004), 363-377.
- [133] A. Gilányi — K. Nikodem — Zs. Páles, *Bernstein-Doetsch type results for quasiconvex functions*, Math. Inequal. Appl. **7** (2004), 169-175.
- [134] P. Czinder — Zs. Páles, *An extension of the Hermite-Hadamard inequality and an application for Gini and Stolarsky means*, J. Inequal. Pure Appl. Math. **5**(2) (2004), Art. 42.
- [135] K. Nikodem — Zs. Páles, *On t -convex functions*, Real Anal. Exchange **29** (2003/2004), 219-228.
- [136] Gy. Maksa — Zs. Páles, *On a composite functional equation arising in utility theory*, Publ. Math. Debrecen **65** (2004), 215-221.
- [137] M. Bessenyei — Zs. Páles, *On generalized higher-order convexity and Hermite-Hadamard type inequalities*, Acta Sci. Math. (Szeged) **70** (2004), 13-24.
- [138] Zs. Páles — L. Székelyhidi, *On approximate sandwich and decomposition theorems*, Ann. Univ. Sci. Budapest. Sect. Comput. **23** (2004), 59-70.
- [139] A. Járai — Gy. Maksa — Zs. Páles, *On Cauchy-differences that are also quasisums*, Publ. Math. Debrecen **65** (2004), 381-398.
- [140] Zs. Páles — L.-E. Persson, *Hardy type inequalities for means*, Bull. Austr. Math. Soc. **70** (2004), 521-528.
- [141] P. Czinder — Zs. Páles, *Local monotonicity properties of two variable Gini means and the comparison theorem revisited*, J. Math. Anal. Appl. **301** (2005), 427-438.
- [142] Z. Kaiser — Zs. Páles, *An example of a stable functional equation when the Hyers iteration does not work*, J. Inequal. Pure Appl. Math. **6**(1) (2005), Art. 14.
- [143] M. Bessenyei — Zs. Páles, *Hermite-Hadamard inequalities for generalized convex functions*, Aequationes Math. **69** (2005), 32-40.
- [144] A. Házy — Zs. Páles, *On approximately t -convex functions*, Publ. Math. Debrecen **66** (2005), 489-501.
- [145] L. Larsson — Zs. Páles — L.-E. Persson, *Carlson type inequalities for finite sums and integrals on bounded intervals*, Bull. Austr. Math. Soc. **71** (2005), 275-284.
- [146] Z. Daróczy — Zs. Páles, *Generalized convexity and comparison of mean values*, Acta Sci. Math. (Szeged) **71** (2005), 105-116.
- [147] Zs. Páles, *Optimum problems with nonsmooth equality constraints*, Nonlinear Anal., Theory, Methods, Appl. (Proceedings of the World Congress of Nonlinear Analysts, Orlando (2004)), **63** (2005), e2575-e2581.
- [148] Zs. Páles, *On abstract control problems with nonsmooth data*, Recent Advances in Optimization. Proceedings of the French-German-Spanish Conference on Optimization, Avignon (2004) (Ed. A. Seeger), Lectures Notes in Economics and Mathematical Systems, Vol. 563, Springer Verlag, Berlin-Heidelberg, 2006, pp. 205-216.
- [149] Z. Daróczy — Gy. Maksa — Zs. Páles, *Functional equations involving means and their Gauss composition*, Proc. Amer. Math. Soc. **134**(2) (2006), 521-530.
- [150] M. Bessenyei — Zs. Páles, *Characterizations of convexity via Hadamard's inequality*, Math. Inequal. Appl. **9**(3) (2006), 53-62.
- [151] Z. Boros — Zs. Páles, *\mathbb{Q} -subdifferential of Jensen-convex functions*, J. Math. Anal. Appl. **321** (2006), 99-113.
- [152] Zs. Páles, *Regularity problems and results concerning composite functional equations in several variables*, Tatra Mt. Math. Publ. **34** (2006), 289-306.
- [153] Z. Makó — Zs. Páles, *On Lipschitz perturbation of monotonic functions*, Acta Math. Hungar. **113**(1-2) (2006), 1-18.
- [154] P. Czinder — Zs. Páles, *Some comparison inequalities for Gini and Stolarsky means*, Math. Inequal. Appl. **9**(4) (2006), 607-616.
- [155] K. Nikodem — Zs. Páles, *Generalized convexity and separation theorems*, J. Convex Anal. **14**(2) (2007), 239-248.
- [156] Zs. Páles — V. Zeidan, *Infinite dimensional Clarke generalized Jacobian*, J. Convex Anal. **14**(2) (2007), 433-454.
- [157] M. Adamek — A. Gilányi — K. Nikodem — Zs. Páles, *A note on three-parameter families and generalized convex functions*, J. Math. Anal. Appl. **330** (2007), 829-835.
- [158] A. Gilányi — Z. Kaiser — Zs. Páles, *The stability of the Cauchy functional equation on power-symmetric groupoids*, Aequationes Math. **73** (2007), 125-143.
- [159] Zs. Páles — V. Zeidan, *First and second-order optimality conditions for strong local minimum in control problems with pure state constraints*, Nonlinear Anal., Theory, Methods, Appl. **67**(8) (2007), 2506-2526.
- [160] Zs. Páles — V. Zeidan, *Generalized Jacobian for functions with infinite dimensional range and domain*, Set-Valued Anal. **15**(4) (2007), 331-375.
- [161] Z. Daróczy — K. Lajkó — R. L. Lovas — Gy. Maksa — Zs. Páles, *Functional equations involving means*, Acta Math. Hungar. **116**(1-2) (2007), 79-87.
- [162] M. Klaričić Bakula — Zs. Páles — J. Pečarić, *On weighted L -conjugate means*, Commun. Appl. Anal. **11**(1) (2007), 95-110.

- [163] A. M. Fink — Zs. Páles, *What is Hadamard's inequality?*, Appl. Anal. Discr. Math. **1**(1) (2007), 29–35.
- [164] Z. Makó — Zs. Páles, *On the equality of generalized quasi-arithmetic means*, Publ. Math. Debrecen **72**(3-4) (2008), 407–440.
- [165] Zs. Páles – V. Zeidan, *Infinite dimensional generalized Jacobian: properties and calculus rules*, J. Math. Anal. Appl. **344** (2008), 55–75.
- [166] A. Gilányi — Zs. Páles, *On convex functions of higher order*, Math. Inequal. Appl. **11**(2) (2008), 271–282.
- [167] K. Nikodem — Zs. Páles, *Note on t -quasiaffine functions*, Ann. Univ. Sci. Budapest. Sect. Comput. **29** (2008), 127–139.
- [168] L. Losonczi — Zs. Páles, *Comparison of means generated by two functions and a measure*, J. Math. Anal. Appl. **345**(1) (2008), 135–146.
- [169] Z. Daróczy — Zs. Páles, *A characterization of nonconvexity and its applications in the theory of quasi-arithmetic means, Inequalities and Applications*, (Noszvaj, 2007), (eds. C. Bandle — A. Gilányi — L. Losonczi — M. Plum — Zs. Páles), Internat. Ser. Numer. Math. Vol. **157**, Birkhäuser Verlag, Basel, 2007, pp. 251–260.
- [170] Sz. Baják — Zs. Páles, *On a Matkowski–Sutô type equation*, Aequationes Math., accepted for publication.
- [171] Zs. Páles, *On functional equations characterizing polynomials*, Acta Sci. Math. (Szeged), accepted for publication.
- [172] A. Háyzy — Zs. Páles, *On the stability of the Hermite–Hadamard inequality*, Proc. Royal Soc. A, accepted for publication.

2.b. Edited Books and Proceedings

- [173] D. Gronau — Zs. Páles (Editors), *Contributions to the theory of functional equations II*, 2nd Proceedings of the Seminar Debrecen-Graz, Zamárdi, May 11–14, 1995, Grazer Math. Ber. **327** (1996).
- [174] Zs. Páles (Editor), *Proceedings of the Numbers, Functions, Equations '98 Conference*, Noszvaj, Hungary, 1998, May 31–June 6, Leaflets in Mathematics, Pécs, (1998).
- [175] Z. Daróczy — Zs. Páles (Editors), *Functional Equations — Results and Advances* Kluwer Acad. Publ., Dordrecht, Advances in Math. Vol. 3, 2002.
- [176] C. Bandle — A. Gilányi — L. Losonczi — M. Plum — Zs. Páles (Editors), *Inequalities and Applications*, (Noszvaj, 2007), Birkhäuser Verlag, Basel, Internat. Ser. Numer. Math. Vol. **157**, 2008.

2.c. Dissertations and Theses

- [177] Zs. Páles, *Kvázieltérés–középértékek összehasonlítása*, (*Comparison of quasideviation means*, in Hungarian), MSc. Thesis, Kossuth Lajos University, Debrecen, 1980.
- [178] Zs. Páles, *Kvázieltérés–középértékek és egyenlőtlenségek*, (*Quasideviation means and inequalities*, in Hungarian), Ph.D. Thesis, Lajos Kossuth University Debrecen, 1982.
- [179] Zs. Páles, *Diszkrét középértékek jellemzése és összehasonlítása* (*Characterization and comparison of discrete mean values*, in Hungarian), Cand. of Sci. Thesis, Hung. Acad. of Sci., Budapest, 1987.
- [180] Zs. Páles, *Újabb módszerek a függvényegyenletek és a függvényegyenlőtlenségek elméletében* (*Newer methods in the theory of functional equations and functional inequalities*, in Hungarian), Doct. of Sci. Thesis, Hung. Acad. of Sci., Budapest, 1999.

2.d. University Lecture Notes

- [181] Zs. Páles, *Feltételes szélsőértékszámítás*, (*Optimization with Constraints*, in Hungarian), Lecture Note, Kossuth Lajos University, Debrecen, 1989.
- [182] Zs. Páles, *Bevezetés az analízisbe*, (*An Introduction to Analysis*, in Hungarian), Lecture Note, Kossuth Lajos University, Debrecen, 1998.

3. Research Trips, Scholarships

- [T1] *Scholarship of the Hungarian Academy of Sciences*, Department of Mathematics, University of Karlsruhe, Karlsruhe, Germany, 1985. October 1–December 31.
- [T2] *Visiting researcher* (supported by the research grants of J. Aczél and B. Forte), Departments of Pure and Applied Mathematics, University of Waterloo, Waterloo, Ontario, Canada, 1987. October 15–December 15.
- [T3] *Visiting researcher* (supported by the research grant of V. Zeidan and by the Hungarian Soros Foundation), Department of Applied Mathematics, University of Waterloo, Waterloo, Ontario, Canada, 1991. May 28–June 30.
- [T4] *Research Fellowship of the Alexander von Humboldt Foundation*, Department of Mathematics, University of Saarland, Saarbrücken, Germany, 1992. August 01–1993. September 30.
- [T5] *Visiting researcher* (supported by the research grant of V. Zeidan), Department of Applied Mathematics, Michigan State University, East Lansing, Michigan, USA, 1993. May 19–June 10.
- [T6] *Visiting researcher* (supported by the research grant of V. Zeidan), Department of Applied Mathematics, Michigan State University, East Lansing, Michigan, USA, 1994. March 14–April 2.
- [T7] *Visiting researcher* (supported by the research grant of L. Losonczi), Department of Mathematics, Kuwait University, Kuwait City, Kuwait, 1995. March 27–April 14.
- [T8] *Visiting researcher* (invited by J. Kolumbán and G. Kassay), Faculty of Mathematics, Babes-Bolyai University, Cluj Napoca, Romania, 1996. March 31–April 5.
- [T9] *Visiting researcher* (invited by K. Nikodem), Department of Mathematics, University of Bielsko Biała, Poland, 1996. September 29–October 4.
- [T10] *Visiting researcher* (invited by V. Zeidan and supported by the Hungarian Soros Foundation), Department of Applied Mathematics, Michigan State University, East Lansing, Michigan, USA, 1996. November 10–22.
- [T11] *Visiting researcher* (supported by the research grants of J. Aczél and A. Marley), Department of Social Sciences, University of California Irvine, Irvine, California, 1998. January 3–31.
- [T12] *Visiting researcher* (invited by V. Zeidan), Department of Applied Mathematics, Michigan State University, East Lansing, Michigan, USA, 1998. February 1–8.
- [T13] *Visiting researcher* (invited by J. Kolumbán and G. Kassay), Faculty of Mathematics, Babes-Bolyai University, Cluj Napoca, Romania, 1998. June 22–28.
- [T14] *Visiting researcher* (invited by Z. Sasvári), Department of Mathematics, Technical University of Dresden, Dresden, Germany, 1998. November 29–December 4.
- [T15] *Visiting researcher* (invited by J. Kolumbán and G. Kassay), Faculty of Mathematics, Babes-Bolyai University, Cluj Napoca, Romania, 1999. May 17–21.
- [T16] *Visiting researcher* (invited by V. Zeidan), Department of Applied Mathematics, Michigan State University, East Lansing, Michigan, USA, 2000. January 11–18.
- [T17] *Visiting researcher* (invited by J. Kolumbán and G. Kassay), Faculty of Mathematics, Babes-Bolyai University, Cluj Napoca, Romania, 2000. March 14–20.
- [T18] *Visiting researcher* (invited by L. Reich and J. Schwaiger), Institute of Mathematics, Karl-Franz University, Graz, Austria, 2000. October 16–29.
- [T19] *Visiting researcher* (invited by K. Nikodem), Department of Mathematics, University of Bielsko Biała, Poland, 2001. February 10–18.
- [T20] *Visiting researcher* (invited by V. Zeidan), Department of Applied Mathematics, Michigan State University, East Lansing, Michigan, USA, 2002. March 2–11.
- [T21] *Visiting researcher* (invited by K. Nikodem), Department of Mathematics, University of Bielsko Biała, Poland, 2004. March 28–April 3.
- [T22] *Visiting researcher* (invited by V. Zeidan), Department of Mathematics, Michigan State University, USA, 2005. August 16–2006. June 15.
- [T23] *Visiting researcher* (invited by W. Jarczyk), Faculty of Mathematics, Informatics, and Economics, University of Zielona Góra, Poland, 2007. February 4–10.
- [T24] *Erasmus Lecturer* (invited by K. Nikodem), Department of Mathematics, University of Bielsko Biała, Poland, 2008. May 26–30.
- [T25] *Visiting researcher* (invited by V. Zeidan), Department of Mathematics, Michigan State University, USA, 2008. November 14–30.