

# List of Publications of Ivan Ginchev

## Papers

77. *Vector optimization problems with quasiconvex constraints*. J. Global. Optim. 44 (2009), 111-130.
76. (and V. I. Ivanov): *First-order conditions for optimization problems with quasiconvex inequality constraints*. Serdica Math. J. 34 (2008), 607-618.
75. (and G. P. Crespi, M. Rocca): *Some remarks on the Minty vector variational principle*. J. Math. Anal. Appl. 345 (2008), no. 1, 165-175.
74. (and V. I. Ivanov): *Second-order optimality conditions for problems with  $C^1$  data*. J. Math. Anal. Appl. 340 (2008), no. 1, 646-657.
73. (and M. Rocca) *Minty variational principle in set-valued optimization*. Mathematics and Education in Mathematics, 2008, 195-200, Proc. 37th Spring Conference of the Union of Bulgarian Mathematicians, April 2-6, 2008, Borovetz, Bulgaria, Union of the Mathematicians in Bulgaria, Sofia 2008 (ISSN 1313-3330).
72. (and M. Rocca) *Set-valued optimization problem involving single-valued equality constraints*. Mathematics and Education in Mathematics, 2008, 190-194, Proc. 37th Spring Conference of the Union of Bulgarian Mathematicians, April 2-6, 2008, Borovetz, Bulgaria, Union of the Mathematicians in Bulgaria, Sofia 2008 (ISSN 1313-3330).
71. *Weakened subdifferentials and Fréchet differentiability of real functions*. In: Z. Slavov, G. Momcheva-Gardeva, S. Madzharova (eds.), Mathematics and Informatics - Reality and Perspectives (Matematika i informatika - Realnost i perspektivi), 19-30, VSU "Chernorizets Hrabâr" Universitetsko Izdatelstvo, Varna 2007 (ISBN 978-954-715-376-9).
70. (and M. Rocca): *On constrained set-valued optimization*. C. R. Acad. Bulgare Sci., 60 (2007), no. 12, 1277-1282.
69. (and V. I. Ivanov): *Higher-order pseudoinvex functions*, In: Mathematics, Informatics and Education, Thirty Sixth Spring Conference of the Union of Bulgarian Mathematicians, Sveti Sveti Konstantin i Elena, April 2-6, 2007, pp. 13-22, VSU "Chernorizets Hrabâr", Varna 2007 (ISBN 978-954-715-342-4).
68. (and G. P. Crespi, M. Rocca): *Some remarks on set-valued Minty variational inequalities*. Vietnam J. Math. 35 (2007), no. 1, 81-106.
67. (and A. Guerraggio, M. Rocca): *Stability of properly efficient points and isolated minimizers of constrained vector optimization problems*. Rendiconti del Circolo Matematico di Palermo, ser. II, 56 (2007), 137-156.
66. (and G. P. Crespi, M. Rocca, A. Rubinov): *Convex along lines functions and abstract convexity*. I. J. Convex Anal. 14 (2007), no. 1, 185-204.
65. (and A. Guerraggio, M. Rocca): *Geoffrion type characterization of higher order properly efficient points in vector optimization*. J. Math. Anal. Appl. 328 (2007), no. 2, 780-788.

64. (and A. Guerraggio, M. Rocca): *Higher order properly efficient points in vector optimization*. In: I. V. Konnov, D. T. Luc, A. M. Rubinov (eds.), Generalized convexity and related topics, 227–245, Lecture Notes in Econom. and Math. Systems, 583, Springer, Berlin Heidelberg 2007.
63. (and G. P. Crespi, M. Rocca): *Points of efficiency in vector optimization with increasing-along-rays property and Minty variational inequalities*. In: I. V. Konnov, D. T. Luc, A. M. Rubinov (eds.), Generalized convexity and related topics, 209–226, Lecture Notes in Econom. and Math. Systems, 583, Springer, Berlin Heidelberg 2007.
62. (and V. I. Ivanov): *Higher-order pseudoconvex functions*. In: I. V. Konnov, D. T. Luc, A. M. Rubinov (eds.), Generalized convexity and related topics, 247–264, Lecture Notes in Econom. and Math. Systems, 583, Springer, Berlin Heidelberg 2007.
61. (and G. P. Crespi, M. Rocca): *A note on Minty type vector variational inequalities*. RAIRO Oper. Res. 39 (2005), no. 4, 253–273 (2006).
60. (and G. P. Crespi, M. Rocca): *First order optimality conditions for constrained set-valued optimization*. Pac. J. Optim. 2 (2006), no. 2, 225–239.
59. (and G. P. Crespi, M. Rocca): *Increasing-along-rays property for vector functions*. J. Nonlinear Convex Anal. 7 (2006), no. 1, 39–50.
58. (and A. Guerraggio, M. Rocca): *Second-order conditions in  $C^{1,1}$  vector optimization with inequality and equality constraints*. In: A. Seeger (ed.), Recent Advances in Optimization, 29–44, Lecture Notes in Econom. and Math. Systems, Vol. 563, Springer, Berlin Heidelberg, 2006.
57. (and A. Guerraggio, M. Rocca): *From scalar to vector optimization*. Appl. Math. 51 (2006), no. 1, 5–36.
56. (and G. P. Crespi, M. Rocca): *First order optimality conditions in set-valued optimization*. Math. Methods Oper. Res. 63 (2006), no. 1, 87–106.
55. (and A. Guerraggio, M. Rocca): *Second-order conditions in  $C^{1,1}$  constrained vector optimization*. Math. Program., 104 (2005), no. 2-3, Ser. B, 389–405.
54. (and G. P. Crespi, M. Rocca): *Two approaches toward constrained vector optimization and identity of the solutions*. J. Ind. Manag. Optim. 1 (2005), no. 4, 549–563.
53. (and A. Guerraggio, M. Rocca): *Isolated minimizers and proper efficiency for  $C^{0,1}$  constrained vector optimization problems*. J. Math. Anal. Appl. 309 No. 1 (2005), 353–368.
52. (and A. Guerraggio, M. Rocca): *First-order conditions for  $C^{0,1}$  constrained vector optimization*. In: F. Giannessi, A. Maugeri (eds.), Variational analysis and applications, 427–450, Nonconvex Optim. Appl., 79, Springer, New York, 2005.
51. (and G. P. Crespi, M. Rocca): *Variational inequalities in vector optimization*. In: F. Giannessi, A. Maugeri (eds.), Variational analysis and applications, 259–278, Nonconvex Optim. Appl., 79, Springer, New York, 2005.
50. (and G. P. Crespi, M. Rocca): *Existence of solutions and star-shapedness in Minty variational inequalities*. J. Global Optim. 32 (2005), no. 4, 485–494.

49. (and G. P. Crespi, M. Rocca): *First order optimality conditions for constrained set-valued optimization*. Proc. 6th International Conference on Optimization Techniques and Applications, December 9–11, 2004, Ballarat, Australia, CD edition, ISBN 1876851155.
48. (and G. P. Crespi, M. Rocca): *Minty variational inequalities, increase along rays property and optimization*. J. Optim. Theory Appl. 123 No. 3 (2004), 479–496.
47. (and A. Guerraggio, M. Rocca):  *$C^{1,1}$  vector optimization problems and Riemann derivatives*. Control Cybernet., 34 No. 2 (2004), 259–273.
46. (and G. P. Crespi, M. Rocca): *Minty vector variational inequality, efficiency and proper efficiency*. Vietnam J. Math., 32 No. 1 (2004), 95–107.
45. (and V. I. Ivanov): *Second-order characterizations of convex and pseudoconvex functions*. J. Appl. Anal. 9 No 2 (2003), 261–273.
44. (and P. Fjelstad): *Volume, surface area and the harmonic mean*. Math. Mag., April 2003, 126–129.
43. (and A. Guerraggio): *Second-order optimality schemes for nonsmooth functions*. In: G. P. Crespi, A. Guerraggio, E. Miglierina, M. Rocca (Eds.), Recent Advances in Optimization, Proc. Varese, June 13–14, 2002, pp. 53–69, Datanova, Milano 2003.
42. (and G. P. Crespi, M. Rocca): *On a connection between Minty variational inequalities and generalized convexity*. In: G. P. Crespi, A. Guerraggio, E. Miglierina, M. Rocca (Eds.), Recent Advances in Optimization, Proc. Varese, June 13–14, 2002, pp. 35–40, Datanova, Milano 2003.
41. *Higher order optimality conditions in nonsmooth vector optimization*. In: A. Cambini, B. K. Dass, L. Martein (Eds.), "Generalized Convexity, Generalized Monotonicity, Optimality Conditions and Duality in Scalar and Vector Optimization", J. Stat. Manag. Syst. 5 No 1–3 (2002), 321–339.
40. *Higher order optimality conditions in nonsmooth optimization*. Optimization 51 No 1 (2002), 47–72.
39. (and A. Hoffmann): *Approximation of set-valued functions by single-valued ones*. Discuss. Math. Differ. Incl. Control Optim. 22 (2002), 33–66.
38. (and V. I. Ivanov): *Higher order directional derivatives for nonsmooth functions*. C. R. Acad. Bulgare Sci. 54 No 11 (2001), 33–38.
37. (and R. P. Ivanov): *The Runge-Kutta explicit method of second order for differential inclusions*. In: Proc. 35 Years TU Varna, Varna 2001, pp. 21–34.
36. (and M. Rocca): *On Peano and Riemann derivatives*. Rendiconti del Circolo Matematico di Palermo 49 No 3 (2000), 463–480.
35. (and A. Guerraggio, M. Rocca): *Equivalence of  $(n+1)$ -th order Peano and usual derivatives for  $n$ -convex functions*. Real Anal. Exchange 25 No 2, (1999/2000), 513–520.
34. (and A. Guerraggio, M. Rocca): *Equivalence of Peano and Riemann derivatives*. In: Giorgi G., Rossi F.: Generalized convexity and optimization for economic and financial decisions, Verona, May 28–29, 1998, Pitagora Editrice, Bologna 1999, pp. 169–178.

33. (and A Guerraggio): *Second order optimality conditions in unconstrained nonsmooth optimization*. In: Kenderov P. S., Revalski J. P. (Eds.), Proceedings of the 4th International Conference on Mathematical Methods in Operations Research and 6th Workshop on Well-posedness and Stability of Optimization Problems, Sozopol (Bulgaria), Sept. 16–20, 1997, Pliska Stud. Math. Bulgar. 12 (1998), 39–50.
32. (and A. Hoffmann): *The Hausdorff nearest circle to a convex compact set in the plane*. Z. Anal. Anwendungen 17 No 2 (1998), 479–499.
31. (and A. Hoffmann): *On the best approximation of set-valued functions*. In: Gritzmann P., Horst R., Sachs E., Tichatschke R. (Eds.), Recent Advances in Optimization. Proceedings of the 8th French-German Conference on Optimization, Trier, July 21–26, 1996, Lecture Notes in Economics and Mathematical Systems 452, Springer-Verlag, Berlin Heidelberg 1997, pp 61–74.
30. *The Hausdorff nearest circle to a triangle*. Z. Anal. Anwendungen 13 No 4 (1994), 711–723.
29. *Strong and weak minima of functionals in a real Hilbert space*. Optimization 23 (1992), 113–116.
28. *A method to obtain Berge equilibriums in bi-matrix games*. In the collection “Multi-Criterial Dynamic Problems under Uncertainty”, 79–83, Orehovo-Zouevo 1991.
27. *Local approximation of higher order for multifunctions of one variable*. Optimization 22 (1991), 39–45.
26. (and R. Gutowski): *An evaluation of the domain of controllability of autonomous control systems via the second method of Lyapunov*. Nonlinear Vibration Problems 24 (1991), 101–113.
25. *Local polynomial approximation of multi-valued functions*. Proceedings of the Eighteenth Spring Conference of the Union of Bulgarian Mathematicians, Albena, April 6–10, 1988. Bulgarian Academy of Sciences, Sofia 1989, 277–283.
24. *A theorem on subdifferential calculation*. Demonstratio Math. 21 No 3 (1988), 713–725.
23. *Grapho-analytic method of solving  $2 \times n$  bi-matrix games*. Zastosowania Matematyki (Applicationes Mathematicae) 20 No 1 (1987), 23–27.
22. *A Multistage game with full information possessing no Z-equilibrium (Bulgarian)*. Godishnik Vissh. Uchebn. Zaved. Prilozhna Mat. 23 (1987), 69–72.
21. *A game with a payoff function ranging into a partially ordered set (Bulgarian)*. Godishnik Vissh. Uchebn. Zaved. Prilozhna Mat. 23 (1987), 65–68.
20. *Strategic equivalence of zero-sum games (Bulgarian)*. Godishnik Vissh. Uchebn. Zaved. Prilozhna Mat. 23 (1987), 31–34.
19. *Z-equilibrium in finite games (Bulgarian)*. Godishnik Vissh. Uchebn. Zaved. Prilozhna Mat. 23 (1987), 35–38.
18. *Pseudo-similarity of zero sum games (Bulgarian)*. Godishnik Vissh. Uchebn. Zaved. Prilozhna Mat. 23 (1987), 39–43.

17. *An example of a game with compact strategy sets and upper semi-continuous quasi-concave gain functions without Nash equilibriums.* Comptes Rendus de l'Academie Bulgare des Sciences 39 No 2 (1986), 31–32.
16. *Application of the Cevian duality for proving of identities and inequalities in the triangle* (Bulgarian). Mathematics and Education in Mathematics, Proceedings of the Fiveteenth Spring Conference of the Union of Mathematicians in Bulgaria, Sunny Beach, April 2–6, 1986. Bulgarian Academy of Sciences, Sofia 1986, 559–566.
15. *Geometrico-analytical finding of equilibrium states in bi-matrix games* (Bulgarian). Mathematics and Education in Mathematics, Proceedings of the Sixteenth Spring Conference of the Union of Mathematicians in Bulgaria, Sunny Beach, April 6-10, 1987. Bulgarian Academy of Sciences, Sofia 1987, 385–392.
14. *On existence of solutions of solutions of a linear differential game with a retardation and with a concave payoff function* (Russian). Godishnik Vissh. Uchebn. Zaved. Prilozhna Mat. 21 No 1 (1985), 61–69.
13. *Barycentric coordinates and problems of colinearity of points and crossing of straight lines* (Bulgarian). Mathematics and Education in Mathematics, Proceedings of the Fourteenth Spring Conference of the Union of Mathematicians in Bulgaria, Sunny Beach, April 6–9, 1985. Bulgarian Academy of Sciences, Sofia 1985, 658–670.
12. *Existence of equilibrium points of a differential game with a retarded dynamical system.* Differential Equations and Applications, Proceedings of the Third Conference, Rousse, Bulgaria, July 1–6, 1985. Rousse 1985, 663–670.
11. (and M. Nedelcheva): *Asymptotic estimates for the best approximation of strictly  $n$ -convex functions with Chebyshevian splines.* Serdica 10 (1984), 353–356.
10. (and M. Nedelcheva): *Approximation of strictly  $n$ -convex functions with splines* (Bulgarian). Godishnik Vissh. Uchebn. Zaved. Prilozhna Mat. 20 No 2 (1984), 75–84.
9. *On the stability of the zero solution of a retarded functional differential system with an application to the nuclear reactor dynamics.* Nonlinear Vibration Problems 22 (1984), 107–126.
8. (and D. Dochev): *Existence and continuation of the solutions of some functionals equations.* Mathematics and Education in Mathematics, Proceedings of the Twelfth Spring Conference of the Union of Mathematicians in Bulgaria, Sunny Beach, April 6–9, 1983. Bulgarian Academy of Sciences, Sofia 1983, 85–91.
7. (and M. Nedelcheva): *Approximation of continuous functions with some classes of functions* (Bulgarian: Aproksimirane na neprekysnati funktsii s njakoi klasi ot funktsii). In: Proc. Scientific Session Higher Military School “Vassil Levski” (Dokladi na nauchnata sesija na VNVU “V. Levski”), May 1982, Veliko Tyrnovo.
6. *Stability of the solutions of a linear differential-difference equation.* Differential Equations and Applications, Proceedings of the Second Conference, Rousse, Bulgaria, June 29- July 4, 1981. Rousse 1982, 155–158.
5. *Stability of a linear retarded equation.* Demonstratio Math. 40 No 2 (1982), 457–464.
4. *A problem about set translation on the real line.* Colloq. Math. 46 No 2 (1982), 209–214.

3. *The concept of semicontinuity of a mapping and problems of multicriterial optimization* (Russian: Ponjatie poluneprieryvnosti otobrazhenij i voprosy mnogokriterial'noj optimizatsii). In: D. T. Dochev, V. Zhukovskij (eds.), *Differential zero sum games* (Russian: Differentsial'nye neanatonisticheskie igry), pp. 142–155, *Annals of the Higher Technical University "Angel Kynchev"*, vol. 23, Rousse 1981.
2. *Asymptotic stability of a linear system of differential equations with a retardation* (Bulgarian). *Godishnik Vissh. Uchebn. Zaved. Prilozhna Mat.* 17 No 2 (1981), 123–128.
1. *Concerning uniconherence of continua*. *Fund. Math.* 90 (1975), 23–33.

### Textbooks

3. I. Ginchev: *Quantitative methods in management (decisions under determination)*. Technical University of Varna, Varna 1999 (in Bulgarian).
2. I. Ginchev (Ed.): I. Ginchev, K. Ganev, Ch. Marinov, S. Savov, R. Tsanev, *Numerical methods, Handbook for laboratory exercises in mathematical analysis*. Technical University of Varna, Varna 1989 (in Bulgarian).
1. D. Dochev, D. Pantelev, I. Ginchev, P. Pavlov: *Lecture course on Mathematical Analysis*, University of Rousse, Rousse 1985 (In Bulgarian).

### Conferences and Contributed Lectures

34. Workshop on Optimization and Related Topics, May 5, 2009, Varese, Italy. **I. Ginchev**: *Higher-order conditions for strict efficiency revisited*.
33. Workshop on Optimization and Applications, December 17–19, 2008, Institute of Mathematics and Informatics, Bulgarian Academy of Sciences, Sofia, Bulgaria. **I. Ginchev**: *Higher-order conditions for strict efficiency revisited*.
32. The 4-th Sino-Japanese Optimization Meeting (SJOM 2008), August 27–31, 2008, National Cheng Kung University, Tainan, Taiwan. G. P. Crespi, I. Ginchev, **M. Rocca**: *Minty variational principle for set-valued variational inequalities*.
31. International School of Mathematics Guido Stampacchia, 48th workshop, "Nonsmooth Analysis Optimization and Applications", May 9–17, Erice, Italy. I. Ginchev, **A. Gueraggio**, M. Rocca: *Dini directional derivatives in locally Lipschitz and  $C^{1,1}$  vector optimization*.
30. Workshop on Vector Optimization and related topics, April 10-11, 2008, Varese, Italy. G. P. Crespi, **I. Ginchev**, M. Rocca: *Minty variational principle for set-valued variational inequalities*.
29. The 37th Spring Conference of the Union of Bulgarian Mathematicians, April 02–06, 2008, Borovets, Bulgaria. I. **I. Ginchev**, M. Rocca: *Set-valued optimization problem involving single-valued equality constraints*. II. I. Ginchev, **M. Rocca**: *Minty variational principle in set-valued optimization*.
28. Ninth International Conference "Approximation and Optimization in the Caribbean" AP-POPT'2008, March 2–7, 2008, San Andres Island, Colombia. **G. P. Crespi**, I. Ginchev, M. Rocca: *Vector optimization and vector Minty variational inequalities*.

27. Mathematics and Informatics – Realities and Perspectives, Jubilee Conference 45 Years SMB-Varna, December 15–16, 2007, Balchik, Bulgaria. **Ivan Ginchev**: *Weakened sub-differentials and Fréchet differentiability of real functions*.
26. The 7th International Conference on Optimization: Techniques and Applications (ICOTA7), December 12–15, 2007, Kobe, Japan. **G. P. Crespi**, I. Ginchev, M. Rocca: *Some remarks on the Minty vector variational principle*.
25. Second Mathematical Programming Society International Conference on Continuous Optimization + Modeling and Optimization: Theory and Applications (ICCOPT II MOPTA 07), August 13–16, 2007, McMaster University, Hamilton, Ontario, Canada. **I. Ginchev**: *Optimality conditions for scalar and vector optimization problems with quasiconvex inequality constraints*.
24. The Second International Conference on Optimization and Optimal Control (ICOOC'2007), July 17–20, 2007, Ulaanbaatar, Mongolia. **G. P. Crespi**, I. Ginchev, M. Rocca: *Existence of solutions of Minty type vector variational inequalities*.
23. New Trends in Mathematics and Informatics, Jubilee International Conference 60 years Institute of Mathematics and Informatics Bulgarian Academy of Sciences, July 6–8, 2007, Sofia, Bulgaria. I. **Ivan Ginchev**, M. Rocca: *On constrained set-valued optimization*. II. **Ivan Ginchev**, V. I. Ivanov: *Optimization problems with quasiconvex inequality constraints*.
22. The 36th Spring Conference of the Union of Bulgarian Mathematicians, April 2–6, 2007, Sveti Sveti Konstantin i Elena, Bulgaria. I. Ginchev, **V. I. Ivanov**: *Higher-order pseudoconvex functions*.
21. The 3rd Sino-Japanese Optimization Meeting in the e-Business Era (SJOM), October 31–November 2, 2005, Singapore. **G. P. Crespi**, I. Ginchev, M. Rocca: *Some remarks on the Minty variational inequalities*.
20. XXIX Convegno AMASES, September 12–15, 2005, Palermo, Italy. **G. P. Crespi**, I. Ginchev, M. Rocca, A. Rubinov: *Efficient points in vector optimization with increasing-along-rays property and Minty variational inequality* (Extended abstract included in CD).
19. International Conference on Complementarity, Duality, and Global Optimization, August 15–17, 2005, Blacksburg, Virginia, USA (Organizers: D. Gao and H. Shira). **G. P. Crespi**, I. Ginchev, M. Rocca, A. Rubinov: *Convex along lines positive homogeneous functions and abstract convexity*
18. 8th International Symposium on Generalized Convexity and Monotonicity, July 4–8, 2005, Varese, Italy. I. **I. Ginchev**, V. I. Ivanov: *Higher-order pseudoconvex functions and Kuhn-Tucker conditions*. II. **G. P. Crespi**, I. Ginchev, M. Rocca: *Efficient points in vector optimization with increasing-along-rays property and Minty variational inequalities*. III. I. Ginchev, A. Guerraggio, **M. Rocca**: *Properly efficient points of order  $k$  in nonsmooth vector optimization*.
17. The 1st International Conference on Control and Optimization with Industrial Applications (COIA-2005), May 22–25, 2005, Baku, Azerbaijan. **G. P. Crespi**, I. Ginchev, M. Rocca, A. Rubinov: *Convex along lines functions and abstract convexity*.

16. The 6th International Conference on Optimization Techniques and Applications, December 9–11, 2004, Ballarat (Australia). **G. P. Crespi**, I. Ginchev, M. Rocca: *First order optimality conditions for constrained set-valued optimization*.
15. French-German-Spanish Conference on Optimization, September 20–24, 2004, Avignon (France). I. **I. Ginchev**, A. Guerraggio, M. Rocca: *Second-order conditions in  $C^{1,1}$  vector optimization with inequality and equality constraints*. II. **G. P. Crespi**, I. Ginchev, M. Rocca, *Increase along rays property for vector functions*.
14. XXVIII Convegno Associazione per la Matematica Applicata alle Scienze Economiche e Sociali, September 8–12, 2004, Facoltà di Economia “Marco Biagi”, Modena (Italy). **G. P. Crespi**, I. Ginchev, M. Rocca: *First order optimality conditions in set-valued optimization*.
13. First Mathematical Programming Society International Conference on Continuous Optimization ICCOPT I, August 2-4, 2004 Rensselaer Polytechnic Institute, Troy, NY 12180 (USA). I. **G. P. Crespi**, I. Ginchev, M. Rocca: *Isolated minimizers in set-valued optimization*. II. I. Ginchev, **M. Rocca**, A. Guerraggio: *Isolated minimizers, proper efficiency and stability for  $C^{0,1}$  constrained vector optimization problems*.
12. 18<sup>th</sup> International Symposium on Mathematical Programming (ISMP’03), August 18–22, 2003, Copenhagen (Denmark). I. **G. P. Crespi**, I. Ginchev, M. Rocca: *Minty variational inequalities and well posedness in scalar optimization*. II. G. P. Crespi, I. Ginchev, **M. Rocca**: *Minty variational inequalities and vector optimization*.
11. Workshop “Variational analysis and applications”, June 20– July 1, 2003, Erice (Italy). I. **I. Ginchev**, A. Guerraggio, M. Rocca: *Optimization of  $C^{1,1}$  vector functions*. II. G. P. Crespi, I. Ginchev, **M. Rocca**: *Minty variational inequality and vector optimization*. III. **G. P. Crespi**, I. Ginchev, M. Rocca: *Minty variational inequalities and well posedness in scalar optimization*.
10. French-German-Polish Conference on Optimization, Sept. 9–13, 2002, Cottbus (Germany). **I. Ginchev**, A. Guerraggio, M. Rocca: *On second-order conditions in vector optimization*.
9. Workshop “Mathematical Diagnostics”, June 17–25, 2002, Erice (Italy).
8. Workshop “Ottimizzazione”, June 13-14, 2002, Varese (Italy). **I. Ginchev**, A. Guerraggio, M. Rocca: *From scalar to vector optimization*.
7. French-German-Italian Conference on Optimization, Sept. 4–8, 2000, Montpellier (France). I. Ginchev, **A. Hoffmann**: *Approximation of set-valued functions by single-valued ones*.
6. 8<sup>th</sup> International Workshop in Mathematics, Series Differential Inclusions and Optimization, Sept. 25–29, 2000 / Polish – German Symposium on Science Research Education (SRE 2000), Sept. 28-29, 2000, Gronów (Poland). **A. Hoffmann**, A. Geletu, I. Ginchev: *Approximation of plane convex compact sets by alternating arcs and lines*.
5. German – Polish Conference on Optimization — Methods and Applications, Sept. 14–18, 1999, Żagań (Poland). **I. Ginchev**: *Second order derivatives of nonsmooth functions*.
4. 6th International Symposium on Generalized Convexity and Monotonicity, Aug. 30 – Sept. 3, 1999, Karlovassi, Samos (Greece). **I. Ginchev**: *Subdifferentials of nonsmooth functions and second order optimality conditions*.

3. Generalized convexity and optimization for economic and financial decisions, Verona (Italy), May 28–29, 1998. **I. Ginchev**, A. Guerraggio, M. Rocca: *Equivalence of Peano and Riemann derivatives*.
2. 4th International Conference on Mathematical Methods in Operations Research and 6th Workshop on Well-posedness and Stability of Optimization Problems, Sozopol (Bulgaria), Sept. 16–20, 1997. **I. Ginchev**, A. Guerraggio: *Second order optimality conditions in unconstrained nonsmooth optimization*.
1. 8th French-German Conference on Optimization, Trier (Germany), July 21–26, 1996. **I. Ginchev**, **A. Hoffmann**: *On the best approximation of set-valued functions*.

### Preprints

34. *Optimality conditions for scalar and vector optimization problems with quasiconvex inequality constraints*. Quaderni 2007/5, Università dell’Insubria, Facoltà di Economia, Varese 2004 ([http://eco.uninsubria.it/dipeco/Quaderni/files/QF2008\\_5.pdf](http://eco.uninsubria.it/dipeco/Quaderni/files/QF2008_5.pdf)).
33. *Weakened subdifferentials and Fréchet differentiability of real functions*. Quaderni 2008/3, Università dell’Insubria, Facoltà di Economia, Varese 2004 ([http://eco.uninsubria.it/dipeco/Quaderni/files/QF2008\\_3.pdf](http://eco.uninsubria.it/dipeco/Quaderni/files/QF2008_3.pdf)).
32. (and V. I. Ivanov): *Optimization problems with quasiconvex inequality constraints*. Quaderni 2007/11, Università dell’Insubria, Facoltà di Economia, Varese 2004 ([http://eco.uninsubria.it/dipeco/Quaderni/files/QF2007\\_11.pdf](http://eco.uninsubria.it/dipeco/Quaderni/files/QF2007_11.pdf)).
31. (and M. Rocca): *On constrained set-valued optimization*. Quaderni 2007/10, Università dell’Insubria, Facoltà di Economia, Varese 2004 ([http://eco.uninsubria.it/dipeco/Quaderni/files/QF2007\\_10.pdf](http://eco.uninsubria.it/dipeco/Quaderni/files/QF2007_10.pdf)).
30. (and G. P. Crespi, M. Rocca): *Variational inequalities in vector optimization*. Quaderni 2004/31, Università dell’Insubria, Facoltà di Economia, Varese 2004 ([http://eco.uninsubria.it/dipeco/Quaderni/files/QF2004\\_31.pdf](http://eco.uninsubria.it/dipeco/Quaderni/files/QF2004_31.pdf)).
29. (and G. P. Crespi, M. Rocca): *Minty variational inequalities, increase-along-rays property and optimization*. Quaderni 2004/30, Università dell’Insubria, Facoltà di Economia, Varese 2004 ([http://eco.uninsubria.it/dipeco/Quaderni/files/QF2004\\_30.pdf](http://eco.uninsubria.it/dipeco/Quaderni/files/QF2004_30.pdf)).
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