

Liste de publications au 3 décembre 2005

Michel Théra

A. Publications dans des journaux avec arbitrage

2005

1. Huynh Van Ngai; **Théra**, Michel *Error bounds for convex differentiable inequality systems*, Mathematical Programming, **104**, 2-3, 465 - 482 (2005).
2. Ernst, Emil; **Théra**, Michel *A converse to the Eidelheit theorem in real Hilbert spaces*, Bull. Sci. Math. 129 (2005), no. 5, 381–397.
3. Ernst, Emil; **Théra**, Michel *Constrained optimization and strict convex separation, Slice-continuous sets in reflexive Banach spaces: convex constrained optimization and strict convex separation*, Journal of Functional Analysis, Vol 223/1 pp 179-203 (2005).

2004

4. Adly, Samir; Ernst, Emil; **Théra**, Michel *Well-positioned closed convex sets and well-positioned closed convex functions*. J. Global Optim. 29 (2004), no. 4, 337–351.
5. Huynh Van Ngai; **Théra**, Michel *Error bounds and implicit multifunction theorem in smooth Banach spaces and applications to optimization*. Set-Valued Anal. 12 (2004), no. 1-2, 195–223.
6. Adly, Samir; Ernst, Emil; **Théra**, Michel *Norm-closure of the barrier cone in normed linear spaces*. Proc. Amer. Math. Soc. 132 (2004), no. 10, 2911–2915 (electronic).

2003

7. Adly, Samir; Ernst, Emil; **Théra**, Michel *On the closedness of the algebraic difference of closed convex sets*. J. Math. Pures Appl. (9) 82 (2003), no. 9, 1219–1249.
8. Pennanen, Teemu; Revalski, Julian P.; **Théra**, Michel *Variational composition of a monotone operator and a linear mapping with applications to elliptic PDEs with singular coefficients*. J. Funct. Anal. 198 (2003), no. 1, 84–105.
9. Pennanen, Teemu; Revalski, Julian P.; **Théra**, Michel *Graph-distance convergence and uniform local boundedness of monotone mappings*. Proc. Amer. Math. Soc. 131 (2003), no. 12, 3721–3729 (electronic).

2002

10. Adly, S.; Ernst, E.; **Théra**, M. *On the Dieudonn theorem in reflexive Banach spaces*. Kibernet. Sistem. Anal. 2002, , no. 3, 34–39, 189; translation in Cybernet. Systems Anal. 38 (2002), no. 3, 339–343
11. Lucchetti, R. E.; Revalski, J. P.; **Théra**, M. *Critical points for vector-valued functions*. Well-posedness in optimization and related topics (Warsaw, 2001). Control Cybernet. 31 (2002), no. 3, 545–555.

12. Huynh Van Ngai; **Théra**, Michel *A fuzzy necessary optimality condition for non-Lipschitz optimization in Asplund spaces*. SIAM J. Optim. 12 (2002), no. 3, 656–668 (electronic).
13. Adly, Samir; **Théra**, Michel; Ernst, Emil *Stability of the solution set of non-coercive variational inequalities*. Commun. Contemp. Math. 4 (2002), no. 1, 145–160.
14. Pennanen, T.; Rockafellar, R. T.; **Théra**, M. *Graphical convergence of sums of monotone mappings*. Proc. Amer. Math. Soc. 130 (2002), no. 8, 2261–2269 (electronic).
15. Van Ngai, Huynh; Dinh The Luc; **Théra**, M. *Extensions of Fréchet ϵ -subdifferential calculus and applications*. J. Math. Anal. Appl. 268 (2002), no. 1, 266–290.
16. Revalski, Julian P.; **Théra**, Michel *Enlargements and sums of monotone operators*. Nonlinear Anal. 48 (2002), no. 4, Ser. A: Theory Methods, 505–519.

2001

17. **Théra** Martinez-Legaz, Juan-Enrique; **Théra**, Michel *A convex representation of maximal monotone operators*. Special issue for Professor Ky Fan. J. Nonlinear Convex Anal. 2 (2001), no. 2, 243–247.
18. Huynh Van Ngai; **Théra**, Michel *Metric inequality, subdifferential calculus and applications*. Wellposedness in optimization and related topics (Gargnano, 1999). Set-Valued Anal. 9 (2001), no. 1-2, 187–216.
19. Adly, Samir; Ernst, Emil; **Théra**, Michel *A characterization of convex and semicoercive functionals*. J. Convex Anal. 8 (2001), no. 1, 127–148.

2000

20. Huynh Van Ngai; Dinh The Luc; **Théra**, Michel *Approximate convex functions*. J. Nonlinear Convex Anal. 1 (2000), no. 2, 155–176.

1999

21. Phan Quoc Khanh; Tran Hue Nuong; **Théra**, Michel *On duality in nonconvex vector optimization in Banach spaces using augmented Lagrangians*. Positivity 3 (1999), no. 1, 49–64.

1998

22. Adly, Samir; Buttazzo, Giuseppe; **Théra**, Michel *Critical points for nonsmooth energy functions and applications*. Nonlinear Anal. 32 (1998), no. 6, 711–718.

1997

23. Jofré, Alejandro; The Luc, Dinh; **Théra**, Michel *ϵ -subdifferential and ϵ -monotonicity*. Nonlinear Anal. 33 (1998), no. 1, 71–90.
24. Moudafi, A.; **Théra**, M. *Finding a zero of the sum of two maximal monotone operators*. J. Optim. Theory Appl. 94 (1997), no. 2, 425–448.

1996

25. Attouch, H.; Riahi, H.; **Théra**, M. *Somme ponctuelle d'opérateurs maximaux monotones*. (French) [Pointwise sum of maximal monotone operators] Well-posedness and stability of variational problems. Serdica Math. J. 22 (1996), no. 3, 165–190.

26. Attouch, H.; **Théra**, M. *A general duality principle for the sum of two operators*. *J. Convex Anal.* 3 (1996), no. 1, 1–24.
27. Adly, Samir; Goeleven, Daniel; **Théra**, Michel *Recession mappings and noncoercive variational inequalities*. *Nonlinear Anal.* 26 (1996), no. 9, 1573–1603.
28. Martinez-Legaz, Juan-Enrique; **Théra**, Michel ϵ -*subdifferentials in terms of subdifferentials*. *Set-Valued Anal.* 4 (1996), no. 4, 327–332.

1995

29. Adly, Samir; Goeleven, Daniel; **Théra** Michel *Recession methods in monotone variational hemivariational inequalities*. *Topol. Methods Nonlinear Anal.* 5 (1995), no. 2, 397–409.
30. Goeleven, Daniel; **Théra**, Michel *Semicoercive variational hemivariational inequalities*. *J. Global Optim.* 6 (1995), no. 4, 367–381.
31. Goeleven, D.; **Théra**, M. *Nonlinear variational inequalities depending on a parameter*. *Serdica Math. J.* 21 (1995)
32. Oettli, Werner; **Théra**, Michel *On maximal monotonicity of perturbed mappings*. *Boll. Un. Mat. Ital. A (7) 9* (1995), no. 1, 47–55.
33. Ndoutoume, James Louis; **Théra**, Michel *Generalised second-order derivatives of convex functions in reflexive Banach spaces*. *Bull. Austral. Math. Soc.* 51 (1995), no. 1, 55–72.

1994

34. Attouch, H.; Baillon, J.-B.; **Théra**, M. *Variational sum of monotone operators*. *J. Convex Anal.* 1 (1994), no. 1, 1–29.
35. Goeleven, Daniel; **Théra**, Michel *Some global results for eigenvalue problems governed by a variational inequality*. *Rend. Sem. Mat. Fis. Milano* 61 (1991), 185–198 (1994).
36. Beer, Gerald; **Théra**, Michel *Attouch-Wets convergence and a differential operator for convex functions*. *Proc. Amer. Math. Soc.* 122 (1994), no. 3, 851–858.
37. Luc, Dinh The; **Théra**, Michel *Derivatives with support and applications*. *Math. Oper. Res.* 19 (1994), no. 3, 659–675.

1993

38. Oettli, W.; **Théra**, M. *Equivalents of Ekeland’s principle*. *Bull. Austral. Math. Soc.* 48 (1993), no. 3, 385–392.
39. Goeleven, Daniel; Nguyen, Van Hien; **Théra**, Michel *Nonlinear eigenvalue problems governed by a variational inequality of von Krmn’s type: a degree-theoretic approach*. *Topol. Methods Nonlinear Anal.* 2 (1993), no. 2, 253–276.
40. Baillon, Jean-Bernard; **Théra**, Michel *A new type of convergence with application to Hammerstein’s equation*. *Nonlinear Anal.* 20 (1993), no. 8, 1029–1042.

1992

41. Borwein, J. M.; **Théra**, M. *Sandwich theorems for semicontinuous operators*. *Canad. Math. Bull.* 35 (1992), no. 4, 463–474.

1991

Théra, Michel *Existence results for the nonlinear complementarity problem and applications to nonlinear analysis*. J. Math. Anal. Appl. 154 (1991), no. 2, 572–584.

42. Baillon, Jean-Bernard; **Théra**, Michel *About the equation $k * u^2 = u$* . J. Integral Equations Appl. 3 (1991), no. 2, 343–350.

1988

43. Isac, G.; **Théra**, M. *Complementarity problem and the existence of the post-critical equilibrium state of a thin elastic plate*. J. Optim. Theory Appl. 58 (1988), no. 2, 241–257.

1984

44. , J. M.; Penot, J.-P.; **Théra**, M. *Conjugate convex operators*. J. Math. Anal. Appl. 102 (1984), no. 2, 399–414.
45. Penot, Jean-Paul; **Théra**, Michel *Applications sous-linéaires valeurs dans un espace de fonctions continues*. (French) [Sublinear mappings with values in a space of continuous functions] Ann. Mat. Pura Appl. (4) 136 (1984), 133–151.

1982

46. Penot, J.-P.; **Théra**, M. *Semicontinuous mappings in general topology*. Arch. Math. (Basel) 38 (1982), no. 2, 158–166.

1981

47. **Théra**, Michel *Subdifferential calculus for convex operators*. J. Math. Anal. Appl. 80 (1981), no. 1, 78–91.

B. Publications dans les Comptes Rendus à l'Académie des Sciences, Paris

2001

48. Adly, Samir; Ernst, Emil; **Théra**, Michel *Stabilité de l'ensemble des solutions d'une inéquation variationnelle non coercive*. (French) [Stability of the solution set of a noncoercive variational inequality] C. R. Acad. Sci. Paris Sér. I Math. 333 (2001), no. 5, 409–414.

1999

49. Revalski, Julian P.; **Théra**, Michel *Generalized sums of monotone operators*. C. R. Acad. Sci. Paris Sér. I Math. 329 (1999), no. 11, 979–984.

1996

50. Jofré, Alejandro; Dihn The Luc; **Théra**, Michel *ϵ -subdifferential calculus for nonconvex functions and ϵ -monotonicity*. C. R. Acad. Sci. Paris Sér. I Math. 323 (1996), no. 7, 735–740.

1994

51. Goeleven, Daniel; **Théra**, Michel *Inéquations variationnelles et analyse des états d'équilibres d'une plaque élastique mince*. (French) [Variational inequalities and analysis of the equilibrium states of a thin elastic plate] *C. R. Acad. Sci. Paris Sér. I Math.* 318 (1994), no. 2, 189–193.
52. Attouch, Hedy; Baillon, Jean-Bernard; **Théra**, Michel *Somme variationnelle d'opérateurs maximaux monotones*. (French) [The sum of maximal monotone operators revisited: the concept of variational sum] *C. R. Acad. Sci. Paris Sér. I Math.* 317 (1993), no. 5, 485–490.

1993

53. Goeleven, Daniel; Nguyen, Van Hien; **Théra**, Michel *Méthode du degré topologique et branches de bifurcation pour les inéquations variationnelles de von Krmn*. (French) [A degree-theoretic approach and bifurcation points for von Karman variational inequalities] *C. R. Acad. Sci. Paris Sér. I Math.* 317 (1993), no. 6, 631–635.

1980

54. **Théra**, Michel *Calcul ε -sous-différentiel des applications convexes vectorielles*. (French) *C. R. Acad. Sci. Paris Sér. A-B* 290 (1980), no. 12, A549–A551.
55. Penot, Jean-Paul; **Théra**, Michel *Semi-continuité des applications et des multiapplications*. (French) *C. R. Acad. Sci. Paris Sér. A-B* 288 (1979), no. 4, A241–A244.

1979

56. Penot, Jean-Paul; **Théra**, Michel *Polarité des applications convexes valeurs vectorielles*. (French) *C. R. Acad. Sci. Paris Sér. A-B* 288 (1979), no. 7, A419–A422.

1978

57. Malivert, Christian; Penot, Jean-Paul; **Théra**, Michel *Minimisation d'une fonction régulière sur un fermé non régulier et non convexe d'un espace de Hilbert*. (French) *C. R. Acad. Sci. Paris Sér. A-B* 286 (1978), no. 24, A1191–A1193.
58. Malivert, Christian; Penot, Jean-Paul; **Théra**, Michel *Un prolongement du théorème de Hahn-Banach*. (French) *C. R. Acad. Sci. Paris Sér. A-B* 286 (1978), no. 3, A165–A168.

C. Publications dans des Proceedings avec arbitrage

2004

59. Ernst, Emil; **Théra**, Michel *Continuous sets and non-attaining functionals in reflexive Banach spaces*. *Variational analysis and applications*, 343–357, *Nonconvex Optim. Appl.*, 79, Springer, New York, 2005.
60. Moudafi, Abdellatif; **Théra**, Michel *Ergodic convergence to a zero of the extended sum of two maximal monotone operators*. *Inherently parallel algorithms in feasibility and optimization and their applications* (Haifa, 2000), 369–379, *Stud. Comput. Math.*, 8, North-Holland, Amsterdam, 2001.

2000

61. Din The Luc; Huynh Van Ngai; **Théra**, M. On ϵ -monotonicity and ϵ -convexity. *Calculus of variations and differential equations* (Haifa, 1998), 82–100, Chapman & Hall/CRC Res. Notes Math., 410, Chapman & Hall/CRC, Boca Raton, FL, 2000.

1999

62. Revalski, Julian P.; **Théra**, Michel *Variational and extended sums of monotone operators*. *Ill-posed variational problems and regularization techniques* (Trier, 1998), 229–246, Lecture Notes in Econom. and Math. Systems, 477, Springer, Berlin, 1999.
63. Moudafi, Abdellatif; **Théra**, Michel *Proximal and dynamical approaches to equilibrium problems*. *Ill-posed variational problems and regularization techniques* (Trier, 1998), 187–201, Lecture Notes in Econom. and Math. Systems, 477, Springer, Berlin, 1999.

1998

64. Oettli, Werner; Schlager, Dirk; **Théra**, Michel *Augmented Lagrangians for general side constraints*. *Optimization* (Namur, 1998), 329–338, Lecture Notes in Econom. and Math. Systems, 481, Springer, Berlin, 2000.
65. Jourani, A.; **Théra**, M. *On limiting Fréchet ϵ -subdifferentials*. *Generalized convexity, generalized monotonicity: recent results* (Luminy, 1996), 185–198, *Nonconvex Optim. Appl.*, 27, Kluwer Acad. Publ., Dordrecht, 1998.

1997

66. Moudafi, A.; **Théra**, M. *Combining the auxiliary problem principle with approximation methods*. *Recent advances in optimization* (Trier, 1996), 196–213, Lecture Notes in Econom. and Math. Systems, 452, Springer, Berlin, 1997.

1996

67. Attouch, H.; **Théra**, M. *A duality proof of the Hille-Yosida theorem*. *Progress in partial differential equations: the Metz surveys*, 4, 18–35, Pitman Res. Notes Math. Ser., 345, Longman, Harlow, 1996.

1995

68. Attouch, H.; Baillon, J.-B.; **Théra**, M. *Weak solutions of evolution equations and variational sum of maximal monotone operators*. *International Conference in Applied Analysis* (Hanoi, 1993). *Southeast Asian Bull. Math.* 19 (1995), no. 2, 117–126.

1987

69. **Théra**, Michel *A note on the Hartman-Stampacchia theorem*. *Nonlinear analysis and applications* (Arlington, Tex., 1986), 573–577, Lecture Notes in Pure and Appl. Math., 109, Dekker, New York, 1987.
70. Isac, George; **Théra**, M. *A variational principle application to the nonlinear complementarity problem*. *Nonlinear and convex analysis* (Santa Barbara, Calif., 1985), 127–145, Lecture Notes in Pure and Appl. Math., 107, Dekker, New York, 1987.

1981

71. *A remark on the Young-Fenchel transformation* - Proceedings of the V Conference on Operation Research. (Köln) Burkard, R, Ellinger, T. Ed. Athenaum/Hain/ Scriptor/Hanstein Methods Oper. Res. **41**, pp.171-174, (1981).

1979

72. **Théra**, Michel *Convex lower-semicontinuous vector-valued mappings and applications to convex analysis*. Third Symposium on Operations Research (Univ. Mannheim, Mannheim, 1978), Section I, pp. 631–636, Operations Res. Verfahren, 31, Hain, Knigstein/Ts., 1979.

D. Publications dans des séminaires

1992

73. Oettli, Werner; **Théra**, Michel *On ψ -monotonicity*. Sémin. Anal. Convexe 22 (1992), Exp. No. 20, 10, pp 20.1-20.10.
74. **Théra**, Michel *Opérateurs non-linéaires auto-adjoints et ϕ -convergence*. (French) [Self-adjoint nonlinear operators and ϕ -convergence] Séminaire d'Initiation l'Analyse, Exp. No. 9, p. 9.01-9.07, Publ. Math. Univ. Pierre et Marie Curie, 104, Univ. Paris VI, Paris, 1992.

1991

75. **Théra**, Michel *Théorèmes d'interposition pour des applications vectorielles*. (French) [Interposition theorems for vector mappings] Séminaire d'Initiation l'Analyse, Exp. No. 17, 14 p. 17.01-17.13, Publ. Math. Univ. Pierre et Marie Curie, 95, Univ. Paris VI, Paris, 1991.

1990

76. Attouch, H.; Ndoutoume, J. L.; **Théra**, M. *Epigraphical convergence of functions and convergence of their derivatives in Banach spaces*. Sémin. Anal. Convexe 20 (1990), Exp. No. 9, p. 9.1-9.45,

1987

77. *Complementarity problem and post critical equilibrium state of thin elastic plates*. Séminaire d'Analyse Numérique, Université Paul Sabatier Toulouse, p. XI-1- XI-27, 1987.

1980

78. **Théra**, M. *Calcul ε -sous-différentiel des applications convexes vectorielles*. (French) [ε -subdifferential calculus of convex vector-valued mappings] Travaux Sémin. Anal. Convexe 10 (1980), no. 2, exp. no. 12, p. 12-1 - 12-19.

1979

79. **Théra**, M. *Fonctions convexes vectorielles. Exposé N^o 7, Séminaire d'Analyse Numérique de Toulouse (1979)*.

E. Livres Edités

2000

80. **Théra, M.**, *Constructive, experimental, and nonlinear analysis, Papers from the International Workshop held in honor of Professor Jonathan Borwein at the University of Limoges, Limoges, September 22–23, 1999*, Published by the American Mathematical Society, Providence, RI, **27**, 2000.

1999

81. Ill-posed variational problems and regularization techniques. Proceedings of the workshop held at the University of Trier, Trier, September 3–5, 1998. Edited by Michel **Théra** and Rainer Tichatschke. Lecture Notes in Economics and Mathematical Systems, 477. Springer-Verlag, Berlin, 1999.

1994

82. Set convergence in nonlinear analysis and optimization. Edited by H. Attouch and M. **Théra**. *Set-Valued Anal.* 2 (1994), no. 1-2. Kluwer Academic Publishers Group, Dordrecht, 1994. pp. iii–vi and 1–393.

1991

83. *Fixed point theory and applications*. Proceedings of the International Conference held at the Université d’Aix-Marseille I, Marseille, June 5–9, 1989. Edited by M. A. **Théra** and J.-B. Baillon. Pitman Research Notes in Mathematics Series, 252. Longman Scientific & Technical, Harlow; copublished in the United States with John Wiley & Sons, Inc., New York, 1991.

1988

84. **Théra, M.** *Contributions à l’Analyse non-linéaire*, Thèse de Doctorat d’Etat es-sciences mathématiques, Université Paris I Panthéon-Sorbonne (1988).

1978

85. **Théra, M.** *Etude des fonctions convexes vectorielles*, Thèse de 3ème cycle es-sciences mathématiques, Université de Pau et des pays de l’Adour, (1978).

G. Publications soumises ou en cours

86. Ernst, E., **Théra, M.** *Global maximum of a convex functional in Banach reflexive spaces*, soumis *Journal of Convex Analysis*.
87. Ait Mansour, M., **Théra, M.** *Lower semicontinuous regularization for vector-valued mappings*, soumis *J. Global Optimization*.
88. Popovici, N., **Théra, M.** *On directed sets and their suprema*, soumis *Positivity*.
89. Ait Mansour, M., Malivert, Ch., **Théra, M.** *Semicontinuity of vector-valued mappings*, soumis *Optimization*.
90. Ngai, V.H., **Théra, M.** *Error bounds for systems of lower semicontinuous functions in Asplund spaces and applications*, preprint 2005.

91. Jeyakumar, V., **Théra**, Wu, Z. Y. *Limit Sums of Monotone Operators* preprint 2005.

Publications sans arbitrage

92. **Théra**, M. *Equations de Hammerstein à domaine non borné*. Publications du Département de Mathématiques de l'Université de Limoges, N^o **11**, pp 13-29, (1989).
93. Attouch, H., **Théra**, M. *Convergences Convergences en analyse multivoque et variationnelle*, MATAPLI, **36**, p. 22-39, 1993
94. **Théra**, M. *The 20 th anniversary of the Société de Mathématiques Appliquées et Industrielles*, Analele Universitatii Bucuresti, Matematica, Anul, **LII**, Nr. 1(2003), 119–124