

## Research papers - Marius DUREA

### (a) List of the most relevant papers (cf. art. 12, alin. (1), lit (h))

1. **M. Durea**, *Scalarization for pointwise well-posed vectorial problems*, Mathematical Methods of Operations Research, 66 (2007), 409-418.
2. **M. Durea**, *First and second order Lagrange claims for set-valued maps*, Journal of Optimization Theory and Applications, 133 (2007), 111-116.
3. **M. Durea**, *Optimality conditions for weak and firm efficiency in set-valued optimization*, Journal of Mathematical Analysis and Applications, 344 (2008), 1018-1028.
4. **M. Durea, J. Dutta, Chr. Tammer**, *Bounded sets of Lagrange multipliers for vector optimization problems in infinite dimension*, Journal of Mathematical Analysis and Applications, 348 (2008), 589-606.
5. **M. Durea, Chr. Tammer**, *Fuzzy necessary optimality conditions for vector optimization problems*, Optimization, 58 (2009), 449-467.
6. **M. Durea, J. Dutta, Chr. Tammer**, *Lagrange multipliers for  $\varepsilon$ -Pareto solutions in vector optimization with non solid cones in Banach spaces*, Journal of Optimization Theory and Applications, 145 (2010), 196-211.
7. **M. Durea**, *Remarks on strict efficiency in scalar and vector optimization*, Journal of Global Optimization, 47 (2010), 13-27.
8. **M. Durea, R. Strugariu**, *Necessary optimality conditions for weak sharp minima in set-valued optimization*, Nonlinear Analysis: Theory, Methods and Applications, 73 (2010), 2148-2157.
9. **M. Durea, R. Strugariu**, *On some Fermat rules for set-valued optimization problems*, Optimization, 60 (2011), 575-591.
10. **M. Durea, R. Strugariu**, *Openness stability and implicit multifunction theorems. Applications to variational systems*, Nonlinear Analysis: Theory, Methods and Applications, 75 (2012), 1246-1259.

(b) **PhD Thesis: M. Durea**, *Differentiability of Set-Valued Maps and Applications in Optimization*, Iași 2004.

(e) Papers published in-extenso in international journals

### **Papers in ISI Journals with impact factor**

1. **M. Durea, R. Strugariu**, *Chain rules for linear openness in general Banach spaces*, SIAM Journal on Optimization, accepted.
2. **M. Durea, H. T. Nguyen, R. Strugariu**, *Metric regularity of epigraphical multivalued mappings and applications to vector optimization*, Mathematical Programming Serie B, accepted.
3. **M. Durea, R. Strugariu**, *Openness stability and implicit multifunction theorems. Applications to variational systems*, Nonlinear Analysis: Theory, Methods and Applications, 75 (2012), 1246–1259.
4. **M. Durea, R. Strugariu**, *Calculus of tangent sets and derivatives of set-valued maps under metric subregularity conditions*, Journal of Global Optimization, DOI: 10.1007/s10898-011-9800-4.
5. **M. Durea, R. Strugariu**, *On parametric vector optimization via metric regularity of constraint systems*, Mathematical Methods of Operations Research, 74 (2011), 409–425.
6. **M. Durea, R. Strugariu**, *Existence conditions for generalized vector variational inequalities*, Annals of Operations Research, 191 (2011), 255–262.
7. **M. Durea, J. Dutta, Chr. Tammer**, *Stability properties of KKT points in vector optimization*, Optimization, 60 (2011), 823–838.
8. **M. Durea, R. Strugariu**, *On some Fermat rules for set-valued optimization problems*, Optimization, 60 (2011), 575–591.
9. **M. Durea, R. Strugariu**, *Optimality conditions in terms of Bouligand derivatives for Pareto efficiency in set-valued optimization*, Optimization Letters, 5 (2011), 141-151.
10. **M. Durea, R. Strugariu**, *Necessary optimality conditions for weak sharp minima in set-valued optimization*, Nonlinear Analysis: Theory, Methods and Applications, 73 (2010) 2148-2157.
11. **M. Durea**, *Openness properties for parametric set-valued mappings and implicit multifunctions*, Nonlinear Analysis: Theory, Methods and Applications, 72 (2010), 571-579.

12. **M. Durea**, *Remarks on strict efficiency in scalar and vector optimization*, Journal of Global Optimization, 47 (2010), 13-27.
13. **M. Durea, J. Dutta, Chr. Tammer**, *Lagrange multipliers for  $\varepsilon$ -Pareto solutions in vector optimization with non solid cones in Banach spaces*, Journal of Optimization Theory and Applications, 145 (2010), 196-211.
14. **M. Durea, Chr. Tammer**, *Fuzzy necessary optimality conditions for vector optimization problems*, Optimization, 58 (2009), 449-467.
15. **M. Durea, J. Dutta, Chr. Tammer**, *Bounded sets of Lagrange multipliers for vector optimization problems in infinite dimension*, Journal of Mathematical Analysis and Applications, 348 (2008), 589-606.
16. **M. Durea**, *Optimality conditions for weak and firm efficiency in set-valued optimization*, Journal of Mathematical Analysis and Applications, 344 (2008), 1018-1028.
17. **M. Ait Mansour, M. Durea, M. Thera**, *A lower semicontinuous regularization for set-valued mappings and its applications*, Journal of Convex Analysis, 15 (2008), 437-484.
18. **M. Durea**, *Scalarization for pointwise well-posed vectorial problems*, Mathematical Methods of Operations Research, 66 (2007), 409-418.
19. **M. Durea**, *On the existence and stability of approximate solutions of perturbed vector equilibrium problems*, Journal of Mathematical Analysis and Applications, 333 (2007), 1165-1176.
20. **M. Durea**, *First and second order Lagrange claims for set-valued maps*, Journal of Optimization Theory and Applications, 133 (2007), 111-116.
21. **M. Durea**, *Variational inclusions for contingent derivative of set-valued maps*, Journal of Mathematical Analysis and Applications 292 (2004), 351-363.

### **Papers in ISI Indexed Journals without impact factor**

22. **M. Durea, R. Strugariu**, *Quantitative results on openness of set-valued mappings and implicit multifunction theorems*, Pacific Journal of Optimization, 6 (2010), 533-549.
23. **M. Durea, J. Dutta**, *Lagrange multipliers for Pareto minima in general Banach spaces*, Pacific Journal of Optimization, 4 (2008), 447-463.

### Non-ISI papers

24. **M. Durea, R. Strugariu**, *Some remarks on proximal point algorithm in scalar and vectorial cases*, *Nonlinear Functional Analysis and Applications*, 15 (2010), 307-319.
25. **M. Durea**, *Some cone separation results and applications*, *Revue d'Analyse Numerique et de Theorie de l'Approximation*, 37 (2008), 37-46.
26. **M. Durea**, *Calculus of the Bouligand derivative of set-valued maps in Banach spaces*, *Nonlinear Functional Analysis and Applications*, 13 (2008), 573-585.
27. **M. Durea**, *Estimations of the Lagrange multipliers' norms in set-valued optimization*, *Pacific Journal of Optimization*, 2 (2006), 487-501.
28. **M. Durea**, *Some existence and stability results of solutions for vector equilibrium problems*, *Nonlinear Functional Analysis and Applications*, 11 (2006), 125-138.
29. **M. Durea**, *On some constraint qualification conditions in set-valued optimization*, *Pure Mathematics and Applications*, 15 (2005), 393-408.
30. **M. Durea**, *Global and local optimality conditions in set-valued optimization problems*, *International Journal of Mathematics and Mathematical Sciences*, 11 (2005), 1693-1711.
31. **M. Durea**, *First and second order optimality conditions for set-valued optimization problems*, *Rendiconti del Circolo Matematico di Palermo*, 53 (2004), 451-468.
32. **M. Durea**, *Openness results for multifunctions via an abstract subdifferential*, *Mathematica (Cluj)*, 47 (2005), 61-72.
33. **M. Durea**, *Generalized vector equilibrium problems and applications*, *PanAmerican Mathematical Journal*, 14 (2004), 37-50.
34. **M. Durea**, *On error bounds for vector valued functions*, *Pure Mathematics and Applications* 14 (2003), 173-180
35. **M. Durea**, *Applications of the Frechet subdifferential*, *Serdica Mathematical Journal* 29 (2003), 301-314.

Date,  
14.05.2012

Signature,

Marius Durea