

ON GENERALIZED VECTOR QUASI-EQUILIBRIUM PROBLEMS*

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References

- [1] Q.H. Ansari and Flores-Bazan Fabian, Generalized vector quasi-equilibrium problems with applications, *J. Math. Anal. Appl.* 277 (2003) 246–256.
- [2] J.P. Aubin and I. Ekeland, *Applied Nonlinear Analysis*, John Wiley and Sons, New York, 1984.
- [3] M. Bianchi, N. Hadjisavvas and S. Schaible, Vector equilibrium problems with general monotone bifunctions, *J. Optim. Theory Appl.* 92 (1997) 527–542.
- [4] G.Y. Chen and S.J. Li, Existence of solutions for generalized vector quasivariational inequality, *J. Optim. Theory Appl.* 90 (1996) 321–334.
- [5] G.Y. Chen, X.Q. Yang and H. Yu, A nonlinear scalarization function and generalized quasi-vector equilibrium problems, *J. Global Optim.* 32 (2005) 451–466.
- [6] K. Fan, A minimax inequality and its application, in *Inequalities, Vol. 3*, O. Shisha (edi.), Academic Press, New York, 1972, pp. 103–113.
- [7] J.Y. Fu, Generalized vector quasi-equilibrium problems, *Math. Methods Oper. Res.* 52 (2000) 57–64.
- [8] F. Giannessi, *Vector Variational Inequalities and Vector Equilibria: Mathematical Theories*, Kluwer Academic Publishers, Dordrecht, 2000.
- [9] I.V. Konnov and J.V. Yao, Existence of solutions for generalized vector equilibrium problems, *J. Math. Anal. Appl.* 233 (1999) 328–335.
- [10] W. Oettli, A remark on vector-valued equilibria and generalized monotonicity, *Acta Math. Vietnan.* 22 (1997) 213–221.

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- [11] S.J. Li, K.L. Teo and X.Q. Yang, Generalized vector quasi-equilibrium problems, *Math. Methods Oper. Res.* 61 (2005) 385–397.
 - [12] S.X. Li, Quasiconvexity and nondominated solution in multiple-objective problems, *J. Optim. Theory Appl.* 88 (1996) 197–208.
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