1056-47-1008 **Boubakari Ibrahimou*** (`bibrahimou@murraystate.edu`), Department of Mathematics & Statistics, Murray State University, Faculty Hall Room 6C, Murray, KY 42071. *The Generalized Degree for Multifunctions Perturbations of Maximal Monotone Operators and Applications.*

The main purpose of this paper is to develop a topological degree for mappings of the form $T - G$ where T is a maximal monotone operator and G a multifunction of class (P) as extension of the degree for $A - G$ developed by Chen where A is m-accretive. We first construct the degree for mappings of the form $\lambda J + T - G$. Next we construct the new topological degree and discuss some applications in mapping theorems. (Received September 19, 2009)

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