1056-47-1142 **Dan D. Pascali*** (dp39@nyu.edu), Courant Institute, New York University, 251 Mercer Street, New York, NY 10012-1185. *Kinds of pseudomonotonocitiy in study of variational inequalities.*

The psudomonotonicity is the basic tool in proving the existence of solutions of varia-tional inequalities. There is a variety of algebraic and topological extensions related to generalized variational-like inequalities studied. A systematic arrangement of a part of these kinds of pseudomonotone set-valued maps is presented. A special attention is paid to nonlinear of monotone type with respect to two Banach spaces. (Received September 21, 2009)