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Boris Mordukhovich and **Ebrahim Sarabi***, Wayne State University, Department of Mathematics, 656 W Kirby Rm 1150 Admin Bldg, detroit, MI 48202. *Second-order of piecewise linear functions and its applications.*

This talk is devoted to present second-order analysis of generalized derivative for piecewise linear functions. We provide a complete local analysis by using appropriate generalized differentiation for this remarkable class of functions. Some applications to stability analysis were discussed at the end. (Received September 13, 2014)