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**Terry Rockafellar\*** ([rtr@uw.edu](mailto:rtr@uw.edu)), Department of Mathematics Box 354350, University of Washington, Seattle, WA 98195-4350. *Applying Variational Analysis to the Stability of Economic Equilibrium.*

A fundamental topic in economics is the existence of prices which induce the agents who buy and sell goods to act in such a way that supply will equal demand. Along with existence, however, there are important questions of uniqueness, at least in some localized sense, and whether the local equilibrium then responds stably to perturbations of the resources. Economists got some very discouraging news about whether those questions could ever have reasonable answers, but this turns out to be due in part to an inadequate view of what local should mean. Now, with the help of powerful tools in variational analysis, brought to bear on variational inequality models of equilibrium, surprisingly positive results have been achieved. (Received August 10, 2015)