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Giray Okten* (okten@math.fsu.edu) and **David Mandel**. *Global Sensitivity Analysis and Model Robustness*.

Global sensitivity analysis is a widely used tool for modelers in sciences and engineering, however, it's use in financial modeling has been limited. I will discuss global sensitivity analysis based on Sobol' sensitivity indices, and a novel approach to quantify the robustness of a model using randomized sensitivity indices. I will present some applications to interest rate and weather derivative models. (Received February 02, 2017)