

Continuity Results for Variational Inequalities with Applications to Time-Dependent Equilibrium Problems

by

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Dr. Fabio Raciti is an Assistant Professor of Mathematics at the University of Catania, Italy. Dr. Raciti's research interests are in optimization theory, variational inequalities, and random partial differential equations. He has published more than 25 papers in refereed journals.

In this talk, we consider a class of monotone variational inequalities in which both the operator and the convex set are parametrized by continuous functions. We will focus on the single-valued case and, under suitable assumptions, show the continuity of the solution with respect to the parameter. As an important application, we consider the case of finite-dimensional variational inequalities on arbitrary polyhedra. Finally, we discuss the applicability of our results to the time dependent traffic equilibrium problem.

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