

NON-CONVEX HAMILTON-JACOBI EQUATIONS

Lawrence C. Evans

Department of Mathematics
UC Berkeley

Although the Crandall-Lions theory of viscosity solutions applies to Hamilton-Jacobi PDE with nonconvex Hamiltonians, little is known about the analytic and geometric properties of solutions. I will discuss a new nonlinear adjoint method and a new compensated compactness argument that together provide some interesting estimates and insights.