

Some questions on viscosity solutions and related topics

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Abstract: I shall discuss some questions on viscosity solutions theory and related topics. A list of examples which I wish to cover are (1) the well-posedness of boundary value problems for degenerate elliptic equations for non-smooth domains, (2) an asymptotic problem for p -Laplace equations as p goes to infinity, (3) the weak KAM theorem for the Neumann problem, and (4) a question related to a representation formula of solutions of Hamilton-Jacobi equations.