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Monotone Trajectories of Dynamical Systems and Clarke's Generalized Jacobian

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Abstract: We generalize some results due to Pappalardo and Passacantando [10]. We

prove necessary and sufficient conditions for the monotonicity of a trajectory of an autonomous dynamical system with locally Lipschitz data, by means of Clarke's generalized Jacobian. Some of the results are developed in the

framework of variational inequalities.

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