

Locally Maximal Monotone Operators and Applications

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Abstract

The talk discusses two notions of locally maximal monotone set-valued mappings on Hilbert spaces (both strong and non-strong) and their relationships. Using the Fréchet and mixed limiting coderivative, we establish full characterizations of the mentioned local concepts. Moreover, their equivalence is validated. From the obtained characterizations, a sum rule for locally maximal monotone operators are built. The talk is based on the joint work with Boris S. Mordukhovich (Wayne State University, Michigan, USA), Pham Duy Khanh (Ho Chi Minh city University of Education, Vietnam) and Vo Thanh Phat (Wayne State University, Michigan, USA).

References

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