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Normal Compactness and Its Extensions

Normal compactness is an important property for the calculus of generalized differentiation in infinite-dimensional variational analysis, especially for the limiting constructions including Mordukhovich subdifferentials, coderivatives, and normal cones. It closely relates to the Lipschitz properties of mappings/functions. In this talk, we will explore the evolution of this concept in modern variational analysis, as well as its recent development including different kinds of extensions. Calculus rules and applications of the extensions will also be discussed.