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On Basic Constraint Qualification for Infinite System of Convex Inequalities in Banach Spaces

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摘要

关键词   system of convex inequalities   basic constraint qualification   Abadie constraint qualification   best approximation

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On Basic Constraint Qualification for Infinite System of Convex Inequalities in Banach Spaces

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Abstract The BCQ and the Abadie CQ for infinite systems of convex inequalities in Banach spaces are characterized in terms of the upper semi-continuity of the convex cones generated by the subdifferentials of active convex functions. Some relationships with other constraint qualifications such as the CPLV and the Slate condition are also studied. Applications in best approximation theory are provided.

Key words   system of convex inequalities   basic constraint qualification   Abadie constraint qualification   best approximation

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