

# Literature Review on Input State Stability

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## Abstract

The Input-to-State Stability (ISS) property provides a natural framework in which to formulate notions of stability with respect to input perturbations. This work reviews ISS theory [1, 2, 3, 4] and its application in MPC [5, 6].

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## 1 Intorduction

### 1.1 notations

## 2 Smooth Conserve Lyapunove Theorem

## 3 ISS Theory

## 4 Application in MPC

## References

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