Consensus Problems in Networks of Agents with Switching Topology and Time-Delays

Jichao Zhao*

30 - 10 - 2020

Abstract

此为原文 Paper 的总结部分

^{*}E-mail: zhaojichao@imakerlab.cn

Contents

1	Introduction	3
2	Consensus Problems	3
3	Consensus Protocols	3
4	Algebraic Graph Theory: Properties of Laplacians	3
5	A Counterexample for Average-Consensus	3
6	Networks with Fixed or Switching Topology	3
	6.1 Balanced Graphs and Average-Consensus on Digraphs	3
	6.2 Performance of Group Agreement and Mirror Graphs	3
	6.3 Consensus in Networks with Switching Topology	3
7	Networks with Communication Time-Delays	3
8	Max-Consensus and Leader Determination	3
9	Simulation Results	3
10	Conclusions	3

- 1 Introduction
- 2 Consensus Problems
- 3 Consensus Protocols
- 4 Algebraic Graph Theory: Properties of Laplacians
- 5 A Counterexample for Average-Consensus
- 6 Networks with Fixed or Switching Topology
- 6.1 Balanced Graphs and Average-Consensus on Digraphs
- 6.2 Performance of Group Agreement and Mirror Graphs
- 6.3 Consensus in Networks with Switching Topology
- 7 Networks with Communication Time-Delays
- 8 Max-Consensus and Leader Determination
- 9 Simulation Results
- 10 Conclusions