



CSC Seminar

SPEAKER

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TITLE

Model order reduction for negative imaginary systems and linear network systems

ABSTRACT

Systems tend to be increasingly complex due to advancing technology. Mathematical modeling of these systems are often high-order equations, which pose serious difficulties in system analysis and synthesis. Therefore, an important issue concerns model reduction of high-order systems to simplify further analysis and synthesis. This talk mainly focuses on two parts: the first part is model reduction theory and numerical algorithms for negative imaginary systems and the second part focuses on structure and synchronization preserving model reduction for consensus networks, in which subsystems are reaching certain agreements via diffusive couplings .

Tuesday, August 13, 2019 at 2 pm
Seminar room Prigogine V0.05-2+3