



Decentralized Control and Filtering in Interconnected Dynamical Systems

Magdi S. Mahmoud

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Based on the many approaches available for dealing with large-scale systems (LSS), **Decentralized Control and Filtering in Interconnected Dynamical Systems** supplies a rigorous framework for studying the analysis, stability, and control problems of LSS. Providing an overall assessment of LSS theories, it addresses model order reduction, parametric uncertainties, time delays, and control estimator gain perturbations.

Taking readers on a guided tour through LSS, the book examines recent trends and approaches and reviews past methods and results from a contemporary perspective. It traces the progress of research along three eras:

1. *Fundamental era* in which the basic conceptual frameworks, major ideas, and operational methodologies are laid down
2. *Contemporary era* in which several of the workable methods and techniques are established and applied to many application areas
3. *Advanced era* in which different high-level schemes and configurations are being developed to meet accelerated technological advancements

Focusing on robust, reliable, and/or resilient decentralized design methods based on linear matrix inequalities framework, the author offers suggestions for improvements to current approaches. He addresses the dominating sources of difficulties due to dimensionality, information structure constraints, uncertainties, and time delays. Drawing attention to key issues, the text is supported by proofs, efficient computational methods, end-of-chapter problems, and approximately 1,300 equations.

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