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Decentralized Control and Filtering in Interconnected Dynamical Systems



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Based on the many approaches available for coping with large-level systems (LSS), *Decentralized Control and Filtering in Interconnected Dynamical Systems* supplies a rigorous framework pertaining to studying the analysis, stability, and control complications of LSS. Providing an overall evaluation of LSS theories, it addresses model order reduction, parametric uncertainties, period delays, and control estimator gain perturbations. It traces the improvement of research along three eras: Fundamental era where the simple conceptual frameworks, major ideas, and operational methodologies are laid down Contemporary era in which several of the workable methods and techniques are established and applied to many application areas Advanced era in which different high-level schemes and configurations are getting developed to meet up accelerated technological advancements Concentrating on robust, dependable, and/or resilient decentralized style methods based on linear matrix inequalities framework, the writer offers ideas for improvements to current techniques. Taking readers on a guided tour through LSS, the reserve examines recent developments and approaches and testimonials past methods and outcomes from a modern perspective. Drawing attention to key issues, the written text is supported by proofs, efficient computational methods, end-of-chapter problems, and around 1,300 equations. He addresses the dominating sources of difficulties because of dimensionality, information structure constraints, uncertainties, and time delays.



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