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A Comparative Study of DeltaV with other DCS

Prof. Chirag S. Dalal[1] and Mukta Patel[2]
Associate Professor, IC Department, Dharmsinh Desai University, Nadiad India[1]
[2]Student, IC Department, Dharmsinh Desai University, Nadiad, India[2]

Abstract: *Distributed Control Systems (DCS) play a critical role in the modern control of large-scale, complex systems across a variety of industries, such as manufacturing, power generation, robotics, and smart grids. This review paper provides a comprehensive comparison of different DCS architectures, including decentralized, hierarchical, and multi-agent systems. Key performance parameters, such as control strategy, communication protocols, fault tolerance, real-time performance, scalability, security, and robustness, are discussed and analyzed in the context of their application to various industrial domains.*

Keywords: Distributed Control Systems

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