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A Distributed Feasible-Side Convergent Modifier-Adaptation Scheme for Interconnected Systems, with Application to Gas Compressor Stations

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Highlights

- The equivalence of modifier adaptation (MA) scheme and proximal-gradient algorithms is shown
- A convergence analysis of centralized MA schemes in the case of inexact plant gradients is given.
- A distributed MA scheme for the real-time optimization of interconnected systems is proposed.
- The application of the method on a load-sharing optimization of serial gas compressors is discussed.

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