

CMU-IBM Cyberinfrastructure Collaborative Site for MINLP

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The CMU-IBM Cyberinfrastructure Collaborative site for MINLP (<http://www.minlp.org>) is a unique library of mixed-integer nonlinear programming (MINLP) and generalized disjunctive programming (GDP) problems.

The major goal of this site is to create a library of MINLP and GDP problems (linear and nonlinear) in different application areas in which one or several alternative models are presented with their derivation. In addition, each model has one or several instances that can serve to test various algorithms. While we are emphasizing MINLP and GDP models, you may also wish to submit MILP and NLP models. The site is intended to provide a mechanism for researchers and users to contribute towards the creation of this library of optimization problems, and to provide a forum of discussion for algorithm developers and application users where alternative formulations can be discussed as well as performance and comparison of algorithms. The site also provides the opportunity of posting open problems. It also has extensive information on various resources, meetings and bibliography.

Contact grossmann@cmu.edu with comments or suggestions.