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## A GA-Fuzzy Automatic Generation Controller for Interconnected Power Systems

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**ABSTRACT:** This paper presents a GA-Fuzzy Automatic Generation Controller for large interconnected power systems. The design of Fuzzy Logic Controllers by means of expert knowledge have typically been the traditional design norm, however, this may not yield optimal performance. Therefore, genetic algorithms are used to design and optimize the fuzzy controller as applied to the Automatic Generation Control problem of large power systems.