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Gravitational Search Algorithm for Optimal Tuning of controller parameters in AVR system

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... The effect will appear clearly on the power and finally on the real system supplying desired voltages. To overcome this matter, an automatic voltage regulator (AVR) is applied [1], [2]. As its name referring, AVR is a device used in generation stations that support the voltage value levels as wanted values in spite of any variation that may occur by stabilizing the voltage value in the excitation part, then controlling excitation voltage value will lead to regulate the output generating voltage as desired values to achieve a stable and reliable voltage supplying system [3]. ...