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Abstract
A conceptual Probabilistic-Heuristic Based framework is proposed to manage the uncertainties encountered in generation system reliability. Normal probability density function of the probabilistic calculated loss-of-load expectation (LOLE) is transformed consistently into the corresponding possibilistic confident representation. Under the possibilistic framework, a compromise between transformation consistency and human updating experience can be satisfied. The derived possibility distribution function (podf) is achieved for both of mean interval and reasonable spread interval compared with the probability reliability LOLE index. The IEEE-RTS with 32 generation units is used to demonstrate the feasibility of the proposed approach.
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