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New approach for estimating the cooling capacity of the absorption and compression chillers in a trigeneration system

Mohammad Mustafa Ghafurian , Hamid Niazmand

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**Highlights**

- Optimum selection of refrigeration system in trigeneration system by multi-objective Genetic Algorithm.
- Defining new objective functions NFWBD and global exergy efficiency for optimization.
- Sensitivity analysis of the objective functions by increasing the number of equipment (gas engine and chillers).
- Emission analysis ( $\text{CO}_2$ , CO and  $\text{NO}_x$ ) and investigating the payback period in optimum selection point for different scenarios

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