

Artificial intelligence in power generation

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Alhamrouni, I.; Abdul Kahar, N.H.; Salem, M.; Swadi, M.; Zahroui, Y.; Kadhim, D.J.; Mohamed, F.A.; Alhuyi Nazari, M. A Comprehensive Review on the Role of Artificial Intelligence in Power System Stability, Control, and Protection: Insights and Future Directions. Appl. Sci. 2024, 14, 6214. <https://doi/10.3390/app14146214>

Alhamrouni I, Abdul Kahar NH, Salem M, Swadi M, Zahroui Y, Kadhim DJ, Mohamed FA, Alhuyi Nazari M. A Comprehensive Review on the Role of Artificial Intelligence in Power System Stability, Control, and Protection: Insights and Future Directions. Applied Sciences. 2024; 14(14):6214. <https://doi/10.3390/app14146214>

Alhamrouni, Ibrahim, Nor Hidayah Abdul Kahar, Mohaned Salem, Mahmood Swadi, Younes Zahroui, Dheyaa Jasim Kadhim, Faisal A. Mohamed, and Mohammad Alhuyi Nazari. 2024. "A Comprehensive Review on the Role of Artificial Intelligence in Power System Stability, Control, and Protection: Insights and Future Directions" Applied Sciences 14, no. 14: 6214. <https://doi/10.3390/app14146214>

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The large variabilities in renewable energy (RE) generation can make it challenging for renewable power systems to provide stable power supplies; however, artificial intelligence (AI)-based methods can help overcome these challenges.

Reinforcement learning techniques can effectively handle the increased computational complexity associated with optimizing power dispatch for renewable power systems to ensure that costs are minimized and operational constraints are met.

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