

1. Record Nr.	UNINA9910337596503321
Titolo	Advances on Computational Intelligence in Energy : The Applications of Nature-Inspired Metaheuristic Algorithms in Energy // edited by Tutut Herawan, Haruna Chiroma, Jemal H. Abawajy
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
ISBN	3-319-69889-3
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (228 pages)
Collana	Green Energy and Technology, , 1865-3529
Disciplina	006.3
Soggetti	Energy systems Computational intelligence Algorithms Energy policy Energy and state Energy Systems Computational Intelligence Energy Policy, Economics and Management
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Basic descriptions of computational intelligence algorithms (single, hybrid, ensemble, integrated and etc -- Credible sources of energy datasets -- Applications of computational algorithms in energy -- Practical application of cuckoo search and neural network in the prediction of OECD oil consumption -- Hybrid of Fuzzy systems and particle swarm optimization in the forecasting gas flaring from oil consumption -- Forecasting of OECD gas flaring using Elman neural network and cuckoo search algorithm -- Artificial bee colony and neural network for the forecasting of Malaysia renewable energy -- Soft computing methods in the modelling of OECD carbon dioxide emission from petroleum consumption -- Modelling energy crises based on Soft computing -- The forecasting of WTI and Dubai crude oil prices benchmarks based on soft computing -- A new approach for the forecasting of IAEA energy -- Modelling of gasoline prices using fuzzy

multi-criteria decision making -- Soft computing for the prediction of Australia petroleum consumption based on OECD countries -- Future research problems in the area of computational intelligence algorithms in energy. .

---

Sommario/riassunto

Addressing the applications of computational intelligence algorithms in energy, this book presents a systematic procedure that illustrates the practical steps required for applying bio-inspired, meta-heuristic algorithms in energy, such as the prediction of oil consumption and other energy products. Contributions include research findings, projects, surveying work and industrial experiences that describe significant advances in the applications of computational intelligence algorithms in energy. For easy understanding, the text provides practical simulation results, convergence and learning curves as well as illustrations and tables. Providing a valuable resource for undergraduate and postgraduate students alike, it is also intended for researchers in the fields of computational intelligence and energy.

---