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Leveraging AI on images captured through drones for Solar Panel Fault Identification -- Optimizing Energy Usage: Genetic Algorithms Leading the Charge Toward Sustainability -- Novel Bat Algorithm with Cubic Cost Function for Thermal Economic Dispatch Problem Solving.

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## Sommario/riassunto

This book of Springer Nature is another proof of Springer's outstanding and greatness on the lively interface of Smart Computational Optimization, Green Infrastructure, Innovative Modeling and Deep Learning Architectures! It is a Master Piece of what our community of Academics and Experts can provide when an Interconnected Approach of Joint, Mutual and Meta Learning is supported by Holistic Operational Research and Experience of the World-Leader Springer Nature! The 7th edition of International Conference on Intelligent Computing and Optimization took place at Baitong Hotel & Resort on October 26–27, 2023, with tremendous support from the global research scholars across the planet. Objective was to celebrate "Global Research Quality with Compassion and Wisdom" with researchers, scholars, experts and investigators in Intelligent Computing and Optimization across the globe, to share knowledge, experience and innovation—a marvelous opportunity for discourse and mutuality by novel research, invention and creativity. This proceedings book of the 7th ICO'2023 is published by Springer Nature—Creativity Label of Inspiration. .

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