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Modulus and Thickness of Corrugated Boards Using Gaussian Process Regression and Expected Hypervolume Improvement -- Automated Floor Plan Design with Constraint Optimization Using Simulated Annealing for Architectural Engineering and 3D Printing -- Structural Behavior of Full-Scale Sound-Wall System Based on Large Scale.

Sommario/riassunto

This book gathers the latest advances, innovations, and applications in the field of optimization-driven architectural design, presented at the 2nd International Conference on Optimization Driven Architectural Design, held in Amman, Jordan, on October 1–4, 2024, jointly with conferences OPT-ii2024 and ADDOPTML2024. It covers topics such as optimization software, evolutionary algorithms & swarm optimization, robust design optimization & reliability based design optimization, optimization in micro- and nano-mechanics, multiscale & additive manufacturing, multidisciplinary and multiphysics design optimization, multiple criteria decision making and optimization, generative and parametric design, parallel and distributed computing in optimization. Written by leading researchers and engineers, and selected by means of a rigorous international peer-review process, the contributions highlight numerous exciting ideas that will spur novel research directions and foster multidisciplinary collaborations.
