

1. Record Nr.	UNINA9910715211503321
Autore	Stamey Timothy C.
Titolo	Effects of channel relocation and proposed bridge construction on floodflows of the Catawba River near Marion, North Carolina // by T.C. Stamey ; prepared in cooperation with McDowell County, North Carolina
Pubbl/distr/stampa	Raleigh, North Carolina : , : U.S. Geological Survey, , 1989
Descrizione fisica	1 online resource (iii, 16 pages) : illustrations, maps
Collana	Water-resources investigations report ; ; 88-4207
Soggetti	Flood routing - Catawba River (N.C. and S.C.) Flood forecasting - Catawba River (N.C. and S.C.) Floods - Catawba River (N.C. and S.C.) Bridges - Design and construction - Environmental aspects - North Carolina Channels (Hydraulic engineering) - Catawba River (N.C. and S.C.) Bridges - Design and construction - Environmental aspects Channels (Hydraulic engineering) Flood forecasting Flood routing Floods North Carolina United States Catawba River
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references (page 13).

2. Record Nr.	UNINA9911011777003321
Autore	Lagaros Nikos D
Titolo	Proceedings of the International Conferences on Digital Technology Driven Engineering 2024 : ADDitively Manufactured OPTimized Structures by means of Machine Learning (ADDOPTML) // edited by Nikos D. Lagaros, Savvas P. Triantafyllou, Rajai Z. Alrousan, Mohammad A. Alhassan, Khairedin M. Abdalla
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2025
ISBN	9783031920295
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (453 pages)
Collana	Lecture Notes in Civil Engineering, , 2366-2565 ; ; 646
Altri autori (Persone)	TriantafyllouSavvas P AlrousanRajai Z AlhassanMohammad A AbdallaKhairedin M
Disciplina	620.00285
Soggetti	Engineering - Data processing Building materials Mathematical optimization Industrial engineering Production engineering Data Engineering Structural Materials Optimization Industrial and Production Engineering
Lingua di pubblicazione	Inglese
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Nota di contenuto	Integration of 3D Printing and Machine Learning in Sustainable Construction Feasibility and Challenges -- Form finding and Automated Fabrication of GFRP Panels with Double Curvate for a Canopy Structure -- Enhancing the Mix Design in 3D Concrete Printing through Systematic Optimization Process -- The Flexural Behavior of Engineered Cementitious -- Composites ECC One Way 3D Printed Slabs made of Solid and Hollow Sections -- Characterizing Shape Changes in 4D Printed ABS Beams Under Thermal Stimuli -- Optimization of 3D

Printing Parameters on Surface Roughness and Flatness of PLA Using Taguchi Design of Experiments -- Prediction of Layered Soil Permeability through Artificial Intelligence Optimization procedure -- Evaluating the Structural Performance of 3D Printed FRCC Beams with Anchoring Reinforcement Material Geometry and Loading Perspectives.

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Sommario/riassunto

This book gathers the latest advances, innovations, and applications in the field of engineering optimization and architectural design, presented at the 1st International Conference on ADDitively Manufactured OPTimized Structures by means of Machine Learning (ADDOPTML), held in Amman, Jordan, on October 1–4, 2024, jointly with conferences OPTARCH2024 and OPT-ii2024. It covers topics such as machine learning-based design manufacturing process for civil structures, additive manufacturing optimized structural elements, holistic machine learning aided, linear, nonlinear, stochastic, parametric, discrete and dynamic programming—modelling, hybrid methods with metaheuristics, machine learning, game theory, mathematical programming, constraint programming, co-evolutionary, emergent nature-inspired algorithms such as quantum computing and artificial immune systems. 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.

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