Optimization and Artificial Intelligence in Civil and Structural Engineering

Volume I
Optimization in Civil and Structural Engineering

Edited by

B. H. V. Topping

Optimization And Artificial Intelligence In Civil And Structural Engineering

B. H. V. Topping

Optimization And Artificial Intelligence In Civil And Structural Engineering:

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held in the Department of Civil Engineering at Heriot Watt University Edinburgh United Kingdom from June 25th to July 6th 1989 Both volumes reflect the full range of the systems approach to civil and structural engineering problems including structural analysis and design water resources engineering geotechnical engineering transportation and environmental engineering This system approach discussed in the first volume includes a number of common threads mathematical programming game theory utility theory statistical decision theory networks and fuzzy logic A most important feature of this volume is the examination of similar representations of different civil engineering problems and their solutions using general systems approaches The decision support aspect of the institute is reflected in the second volume by the knowledge based systems and their artificial intelligence approach Papers discussing many aspects of knowledge based systems in civil and structural engineering are included in the second volume **Optimization and Artificial Intelligence in Civil and Structural Engineering** B.H. Topping,1992-09-30 This volume and its companion volume includes the edited versions of the principal lectures and selected papers presented at the NATO Advanced Study Institute on Optimization and Decision Support Systems in Civil Engineering The Institute was held in the Department of Civil Engineering at Heriot Watt University Edinburgh from June 25th to July 6th 1989 and was attended by eighty participants from Universities and Research Institutes around the world A number of practising civil and structural engineers also attended The lectures and papers have been divided into two volumes to reflect the dual themes of the Institute namely Optimization and Decision Support Systems in Civil Engineering Planning for this ASI commenced in late 1986 when Andrew Templeman and I discussed developments in the use of the systems approach in civil engineering A little later it became clear that much of this approach could be realised through the use of knowledge based systems and artificial intelligence techniques Both Don Grierson and John Gero indicated at an early stage how important it would be to include knowledge based systems within the scope of the Institute The title of the Institute could have been Civil Engineering Systems as this would have reflected the range of systems applications to civil engineering problems considered by the Institute These volumes therefore reflect the full range of these problems including structural analysis and design water resources engineering geotechnical engineering transportation and environmental engineering Artificial Intelligence and Machine Learning Techniques for Civil Engineering Plevris, Vagelis,Ahmad, Afaq,Lagaros, Nikos D.,2023-06-05 In recent years artificial intelligence AI has drawn significant attention with respect to its applications in several scientific fields varying from big data handling to medical diagnosis A tremendous transformation has taken place with the emerging application of AI AI can provide a wide range of solutions to address many challenges in civil engineering Artificial Intelligence and Machine Learning Techniques for Civil Engineering highlights the latest technologies and applications of AI in structural engineering transportation engineering geotechnical engineering and more It features a collection of innovative research on the methods and implementation of AI and machine learning in multiple facets of civil engineering Covering topics such as damage inspection safety risk management and information

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Artificial Intelligence in Civil Engineering MR. HEMANTH KUMAR YERRABOLU,MR. LOVARAJU SURLA,MRS. PAVANI SANDRA,DR. CH. AJAY,MRS. GANGA BHAVANI CHARAKANAM, Artificial Intelligence and Machine Learning Applications in Civil, Mechanical, and Industrial Engineering Gebrail Bekdas,Sinan Melih Nigdeli,Melda Yucel,2019 This book examines the application of artificial intelligence and machine learning civil mechanical and industrial engineering

Civil and Structural Engineering Computing: 2001 B. H. V. Topping,2001 Includes invited lectures presented at The Eighth International Conference on Civil and Structural Engineering Computing and The Sixth International Conference on the Application of Artificial Intelligence to Civil and Structural Engineering held in Eisenstadt Vienna Austria between 19 21 September 2001 Artificial Intelligence Applications for Sustainable Construction Moncef L. Nehdi,Harish Chandra Arora,Krishna Kumar,Robertas Damaševičius,Aman Kumar,2024-02-13 Artificial Intelligence Applications for Sustainable Construction presents the latest developments in AI and ML technologies applied to real world civil engineering concerns With an increasing amount of attention on the environmental impact of every industry more construction projects are going to require sustainable construction practices This volume offers research evidence simulation results and case studies to support this change Sustainable construction in fact not only uses renewable and recyclable materials when building new structures or repairing deteriorating ones but also adopts all possible methods to reduce energy consumption and waste The

concisely written but comprehensive practical knowledge put forward by this international group of highly specialized editors and contributors will prove to be beneficial to engineering students and professionals alike Presents convincing success stories that encourage application of AI powered tools to civil engineering Provides a wealth of valuable technical information to address and resolve many challenging construction problems Illustrates the most recent shifts in thinking and practice for sustainable construction **Structural Design and Optimization of Lifting Self-forming GFRP Elastic Gridshells based on Machine Learning** Soheila Kookalani,Hamidreza Alavi,Farzad Pour Rahimian,2025-08-26 Structural Design and Optimization of Lifting Self forming GFRP Elastic Gridshells Based on Machine Learning presents the algorithms of machine learning ML that can be used for the structural design and optimization of glass fiber reinforced polymer GFRP elastic gridshells including linear regression ridge regression K nearest neighbors decision tree random forest AdaBoost XGBoost artificial neural network support vector machine SVM and six enhanced forms of SVM It also introduces interpretable ML approaches including partial dependence plot accumulated local effects and SHaply additive exPlanations SHAP Also several methods for developing ML algorithms including K fold cross validation CV Taguchi a technique for order preference by similarity to ideal solution TOPSIS and multi objective particle swarm optimization MOPSO are proposed These algorithms are implemented to improve the applications of gridshell structures using a comprehensive representation of ML models This research introduces novel frameworks for shape prediction form finding structural performance assessment and shape optimization of lifting self forming GFRP elastic gridshells using ML methods This book will be of interest to researchers and academics interested in advanced design methods and ML technology in architecture engineering and construction fields **Neural Networks and Combinatorial Optimization in Civil and Structural Engineering** B. H. V. Topping,1993 Included in this volume are a selection of papers on the application of neural networks and combinatorial optimization to civil structural engineering The papers were presented at the Third International Conference on Application of Artificial Intelligence to Civil and Structural Engineering held 17 19 August 1993 Edinburgh Optimization and Control in Civil and Structural Engineering B. Kumar,B. H. V. Topping,1999 Contains a selection of papers presented at The Seventh International Conference on Civil and Structural Engineering and The Fifth International Conference on the Applications of Artificial Intelligence to Civil and Structural Engineering held concurrently from 13 15 September 1999 at Oxford England *Hybrid Metaheuristics in Structural Engineering* Gebrail Bekdaş,Sinan Melih Nigdeli,2023-06-15 From the start of life people used their brains to make something better in design in ordinary works Due to that metaheuristics are essential to living things and several inspirations from life have been used in the generation of new algorithms These algorithms have unique features but the usage of different features of different algorithms may give more effective optimum results in means of precision in optimum results computational effort and convergence This book is a timely book to summarize the latest developments in the optimization of structural engineering systems covering all classical approaches and new trends

including hybrids metaheuristic algorithms Also artificial intelligence and machine learning methods are included to predict optimum results by skipping long optimization processes The main objective of this book is to introduce the fundamentals and current development of methods and their applications in structural engineering **Proceedings of the Sixth International Conference on the Application of Artificial Intelligence to Civil and Structural Engineering** B. H. V. Topping,B. Kumar,2001 Contains the extended abstracts of the contributed papers that were presented at the Eighth International Conference on Civil Structural Engineering Computing which was held in Eisenstadt Vienna Austria from 19 21 September 2001 The full length papers are available in electronic format on the accompanying CD ROM **Artificial Intelligence Techniques and Applications for Civil and Structural Engineers** B. H. V. Topping,1989 Included in this volume are papers presented at the First International Conference on the Application of Artificial Intelligence to Civil Structural Engineering 19 21 September 1989 London **Novel Design and Information Technology Applications for Civil and Structural Engineering** B. Kumar,B. H. V. Topping,1999 Contains a selection of papers presented at The Fifth International Conference on the Applications of Artificial Intelligence to Civil and Structural Engineering held from 13 15 September 1999 at Oxford England

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