1. Record Nr. UNINA9910337634803321 Design Computing and Cognition '18 / / edited by John S. Gero Titolo Cham:,: Springer International Publishing:,: Imprint: Springer,, Pubbl/distr/stampa 2019 **ISBN** 3-030-05363-6 Edizione [1st ed. 2019.] Descrizione fisica 1 online resource (726 pages) Disciplina 720.2840285 620.00420285 Soggetti Engineering design Artificial intelligence Cognitive psychology **Engineering Design** Artificial Intelligence Cognitive Psychology Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Preface -- List of Reviewers -- NEW DESIGN METHODS: Towards the Nota di contenuto Rapid Design of Engineered Systems Through Deep Neural Networks, by Christopher McComb -- Deep Componentbased Neural Network Energy Modelling for Early Design Stage Prediction, by Sundaravelpandian Singaravel and Philipp Geyer -- Unsuccessful External Search: Using Neuroimaging to Understand Fruitless Periods of Design Ideation Involving Inspirational Stimuli, by Kosa GoucherLambert, Jarrod Moss and Jonathan Cagan -- Designing With and For the Crowd: A Cognitive Study of Design Processes in NatureNet, by Stephen MacNeil, Sarah Abdellahi, Mary Lou Maher, Jin Goog Kim, Mohammad Mahzoon and Kazjon Grace -- A Comparison of Tree Search Method for Graph Topology Design Problems, by Ada Rhodes Short, Bryony Dupont and Matt Campbell -- DESIGN COGNITION -DESIGN APPROACHES: Externalizing Co-Design Cognition through

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Sommario/riassunto

This is the proceedings of the Eighth International Conference on Design Computing and Cognition (DCC'18) held at the Polytecnico di Milano in Italy. This volume presents both advances in theory and applications and demonstrates the depth and breadth of design computing and design cognition. Design thinking, the label given to the acts of designing, has become a paradigmatic view that has transcended the discipline of design and is now widely used in business and elsewhere. As a consequence there is an increasing interest in design research. This volume contains papers that represent the state-of-the-art research and developments in design computing and design cognition. This book is of particular interest to researchers, developers and users of advanced computation in design and those who need to gain a better understanding of designing that can be obtained through empirical studies. .