

Toshiharu Taura  
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# Concept Generation for Design Creativity

A Systematized Theory and Methodology

# Concept Generation For Design Creativity A Systematized Theory And Methodology

**Sarah Kay Oman**



## **Concept Generation For Design Creativity A Systematized Theory And Methodology:**

Concept Generation for Design Creativity Toshiharu Taura, Yukari Nagai, 2012-07-26 The concept generation process seems like an intuitional thought difficult to capture and perform although everyone is capable of it It is not an analytical process but a synthetic process which has yet to be clarified Furthermore new research methods for investigating the concept generation process a very difficult task since the concept generation process is driven by inner feelings deeply etched in the mind are necessary to establish its theory and methodology Concept Generation for Design Creativity A Systematized Theory and Methodology presents the concept generation process both theoretically and methodologically Theoretically the concept generation process is discussed by comparing metaphor abduction and General Design Theory from the notions of similarities and dissimilarities Analogy blending and integration by thematic relation have been explained methodologically So far these theories and methods have been discussed independently and the relations among them have not been clarified Two newly developed research methods to investigate the concept generation process are clearly explained the explanation based protocol analysis and constructive simulation By reading Concept Generation for Design Creativity A Systematized Theory and Methodology students researchers and lecturers in design disciplines including engineering design industrial design software design CHI design education and cognitive science can obtain a clear picture of the advanced research findings and the outline of the theories and methods for concept generation Furthermore readers are expected to achieve the competence to generate new concepts

**Creative Design Engineering** Toshiharu Taura, 2016-03-30 Creative Design Engineering Introduction to an Interdisciplinary Approach presents the latest information on a field that has traditionally been primarily concerned with how to make things However as technology has advanced and we have no shortage of things a new challenge for today s engineers is what to make In tackling this our approaches to engineering design have come under the spotlight This book presents solutions to this topic in different sections that highlight the basic concerns associated with innovation First design is considered a kind of universal human act Second it is an interdisciplinary approach that brings together perspectives from fields such as cognitive science and science of knowledge is adopted Third the scope of the discussion also includes the process of creating an initial idea for a new product called the pre design phase as well as the use of the product in society the post design phase Design engineers and researchers in engineering design will find this a user friendly route to understanding the importance of creativity to engineering and how to implement new techniques to improve design outcomes The book has been translated from the original Japanese book titled Sozo Dezain Kogaku Creative Design Engineering published by the University of Tokyo Press 2014 Draws on research in industrial design art and cognitive science to present a concept of creativity which breaks free of traditional engineering thinking Deconstructs design as a human activity to increase our understanding helping us create outstanding engineering projects and systems Includes discussion points to help the reader not only explore the concepts in the book but also apply them to

their own design contexts      **Experimental Design Research** Philip Cash, Tino Stanković, Mario Štorga, 2016-05-17 This book presents a new multidisciplinary perspective on and paradigm for integrative experimental design research. It addresses various perspectives on methods analysis and overall research approach and how they can be synthesized to advance understanding of design. It explores the foundations of experimental approaches and their utility in this domain and brings together analytical approaches to promote an integrated understanding. The book also investigates where these approaches lead to and how they link design research more fully with other disciplines e.g. psychology, cognition, sociology, computer science, management. Above all, the book emphasizes the integrative nature of design research in terms of the methods, theories, and units of study from the individual to the organizational level. Although this approach offers many advantages, it has inherently led to a situation in current research practice where methods are diverging and integration between individual, team, and organizational understanding is becoming increasingly tenuous, calling for a multidisciplinary and transdisciplinary perspective. Experimental design research thus offers a powerful tool and platform for resolving these challenges. Providing an invaluable resource for the design research community, this book paves the way for the next generation of researchers in the field by bridging methods and methodology. As such, it will especially benefit postgraduate students and researchers in design research as well as engineering designers.

*An Anthology of Theories and Models of Design* Amaresh Chakrabarti, Lucienne T. M. Blessing, 2014-02-13 While investigations into both theories and models have remained a major strand of engineering design research, current literature sorely lacks a reference book that provides a comprehensive and up-to-date anthology of theories and models and their philosophical and empirical underpinnings. *An Anthology of Theories and Models of Design* fills this gap. The text collects the expert views of an international authorship covering significant theories in engineering design, including CK theory, domain theory, and the theory of technical systems; current models of design from a function-behavior-structure model to an integrated model; important empirical research findings from studies into design and philosophical underpinnings of design itself. For educators and researchers in engineering design, *An Anthology of Theories and Models of Design* gives access to in-depth coverage of theoretical and empirical developments in this area. For practitioners, the book will provide exposure to theoretical and empirical foundations, to methods and tools that are currently practiced as well as those in the process of development.

Linkography Gabriela Goldschmidt, 2014-03-21 The description of a method for the notation and analysis of the creative process in design drawing on insights from design practice and cognitive psychology. This book presents linkography, a method for the notation and analysis of the design process. Developed by Gabriela Goldschmidt in an attempt to clarify designing, linkography documents how designers think, generate ideas, put them to the test, and combine them into something meaningful. With linkography, Goldschmidt shows that there is a logic to the creative process that it is not, as is often supposed, pure magic. Linkography draws on design practice, protocol analysis, and insights from cognitive psychology. Goldschmidt argues that the generation of

ideas and their inspection and adjustment evolves over a large number of small steps which she terms design moves. These combine in a network of moves and the patterns of links in the networks manifest a good fit or congruence among the ideas. Goldschmidt explains what parts of the design process can be observed and measured in a linkograph, describing its features and notation conventions. The most significant elements in a linkograph are critical moves, which are particularly rich in links. Goldschmidt presents studies that show the importance of critical moves in design thinking, describes cases that demonstrate linkography's effectiveness in studying the creative process in design, focusing on the good fit and offers thirteen linkographic studies conducted by other researchers that show the potential of linkography in design thinking research and beyond. Linkography is the first book-length treatment of an approach to design thinking that has already proved influential in the field.

*Qualitative Research Methods In Business* José Osvaldo De Sordi, 2024-05-30. The challenges of developing research and generating scientific knowledge in environments that involve subjective aspects related to employees, customers, managers, leaders, inspectors, auditors among other stakeholders in the business environment can be overwhelming for students that are new to this type of inquiry. This textbook presents an integrated view of qualitative research strategies with data collection and analysis techniques. The book explores nine distinct research strategies, namely ethnography, phenomenology, grounded theory, case study, design science, research grounded design, action research, participatory action research, and action design research. Related to data collection, this text discusses different types of qualitative interviews, focus groups, ethnographic, phenomenological, etc., as well as how to handle ethical issues that may arise. In terms of analyzing data, the author describes various reading techniques, how to code the text, and how to use software to aid in the analysis. The final section of the book explains how to write up the results of qualitative research, including article structure and selecting an outlet for publication. Students will benefit from the plentiful examples and exercises that highlight the interweaving of data collection and analysis as well as concrete guidelines on engaging in qualitative research. At a time in which qualitative research is becoming more rigorous to meet the demands of the field, this textbook will prove a valuable resource for the next generation of business researchers. The English translation of this book from its Portuguese original manuscript was done with the help of artificial intelligence machine translation by the service provider DeepL.com. A subsequent human revision of the content was done by the author.

*Design Theory* Pascal Le Masson, Benoit Weil, Armand Hatchuel, 2017-04-06. This textbook presents the core of recent advances in design theory and its implications for design methods and design organization. Providing a unified perspective on different design methods and approaches from the most classic systematic design to the most advanced C-K theory, it offers a unique and integrated presentation of traditional and contemporary theories in the field. Examining the principles of each theory, this guide utilizes numerous real-life industrial applications with clear links to engineering design, industrial design, management, economics, psychology, and creativity. Containing a section of exams with detailed answers, it is useful for courses in design theory, engineering design, and

advanced innovation management Students and professors practitioners and researchers in diverse disciplines interested in design will find in this book a rich and vital source for studying fundamental design methods and tools as well as the most advanced design theories that work in practice Professor Yoram Reich Tel Aviv University Editor in Chief Research In Engineering Design Twenty years of research in design theory and engineering have shown that training in creative design is indeed possible and offers remarkably operational methods this book is indispensable for all leaders and practitioners who wish to strengthen their innovation capacity of their company Pascal Daloz Executive Vice President Dassault Syst mes

*International Colloquium of Art and Design Education Research (i-CADER 2014)* Oskar Hasdinor Hassan,Shahriman Zainal Abidin,Rafeah Legino,Rusmadiyah Anwar,Muhamad Fairus Kamaruzaman,2015-10-02 This book focuses on Art and Design Education Research Gathering 72 papers illustrated with diagrams and tables they provide state of the art information on infrastructure and sustainable issues in Art and Design focusing on Design Industrial Applications Visual Communication and New Media Art Education Research Cultural Studies and the Social Implications of Art They also offer detailed information on innovative research trends in Design Technology and Multimedia Design as well as a compilation of interdisciplinary findings combining the Humanities and Quality of Life in Art and Design Concept Generation Methods in Highly Constrained Design Problems Stephanie Victoria Proule,2018 Innovation and creativity are prioritized in engineering solutions yet engineers and designers must also grapple with complex design problems which are highly constrained by requirements regulations and limited resources This research seeks to understand the relationship between design constraints and concept generation methods in order to support innovation and creativity in the design of complex systems A design study was conducted with 12 groups of civilian engineers from the Naval Undersea Warfare Center Division Newport Participants were asked to generate concepts for two different design problems in which the ideation method and level of constraint were varied Group brainstorming and a modified 6 3 5 method were used as a direct comparison while a sketch modelling exercise was also incorporated to obtain qualitative observations and serve as a training exercise for participants All generated ideas during the study were evaluated on four different ideation metrics quantity variety quality novelty Constraint did not have a significant effect on quantity or variety however low constrained problems produced statistically more novel ideas for brainstorming only and high constrained problems produced statically higher quality ideas for both brainstorming and modified 6 3 5 The concept generation method has a marginally significant effect on the quality and variety a modified 6 3 5 method produces a marginally higher quantity and brainstorming produces a marginally higher variety Brainstorming produces significantly higher novelty and modified 6 3 5 method produces significantly higher quality only for low constrained cases The design task itself has a significant interaction effect on quantity novelty and quality of ideas generated which warrants further investigation **Documentation Abstracts** ,1986 *Studia socjologiczne* ,1963

Brainstorming as a Concept Generation Methodology in Mechanical Design Pranav Kiritkumar Desai,1994

**Creativity, Design Thinking and Interdisciplinarity** Frédéric Darbellay, Zoe Moody, Todd Lubart, 2017-12-18 This book at the crossroads of creativity design and interdisciplinary studies offers an overview of these major trends in scientific research society culture and economics It brings together different approaches and communities around a common reflection on interdisciplinary creative design thinking This collective effort provides a unique dialogical and convergent space that deals with the challenges and opportunities met by researchers and practitioners working on design thinking creativity and inter and transdisciplinarity or at the interface between these areas

**Towards a Guided Framework for Innovative Engineering Through the Generation and Evaluation Stages of Concept Design** Sarah Kay Oman, 2012 This work proposes a framework of concept generation and evaluation that takes into consideration the benefit of creativity and innovation in current market trends By educating engineers in how to increase creativity in concept design and assess it quantitatively the next generation of designers will be a step ahead of the market This research begins with an in depth survey of current creativity assessment methods in engineering in order to determine where the limitations currently lie in this field of study The limitations discovered based on this unique analysis were used as motivation for the development of the proposed creativity assessment method Specifically we introduce a set of metrics that break down concepts to their component and subfunction level to assess the novelty and quality of component solutions called the Comparative Creativity Assessment CCA Method Secondly we break down market tested innovative products to isolate innovation information to utilize in concept generation inspiration called the Repository of Innovative Products RIP Finally revisions to the initial CCA method and RIP are proposed and analysis of past data results are compared to the new revised results Revisions to the CCA method include additional metrics that factor in interaction effects from function pairing and component assemblies deemed innovative as well as eliminate evaluator subjectivity in the analysis Observations from the experiments conducted are presented in a Lessons Learned chapter

*Style and Creativity in Design* Chiu-Shui Chan, 2015-03-09 This book looks at causative reasons behind creative acts and stylistic expressions It explores how creativity is initiated by design cognition and explains relationships between style and creativity The book establishes a new cognitive theory of style and creativity in design and provides designers with insights into their own cognitive processes and styles of thinking supporting a better understanding of the qualities present in their own design An explanation of the nature of design cognition begins this work with a look at how design knowledge is formulated developed structured and utilized and how this utilization triggers style and creativity The author goes on to review historical studies of style considering a series of psychological experiments relating to the operational definition degree measurement and creation of style The work conceptually summarizes the recognition of individual style in products as well as the creation of such styles as a process before reviewing studies on creativity from various disciplines presenting case studies and reviewing works by master architects Readers will discover how creativity is initiated by design cognition A summary of the correlations between creativity and style expressed as a

conceptual formula describing the cognitive phenomenon of style and creativity concludes the work The ideas presented here are applicable to all design fields allowing designers to comprehend and improve their design processes to produce creative stylistically unique products     Modeling Creativity and Knowledge-Based Creative Design John S. Gero, Mary Lou

Maher, 2013-05-13 Over the last decade research into design processes utilizing ideas and models drawn from artificial intelligence has resulted in a better understanding of design particularly routine design as a process Indeed most of the current research activity directly or indirectly deals only with routine design Not surprisingly many practicing designers state that the level of understanding represented by these models is only of mild interest because they fail to embody any ideas about creativity This volume provides a set of chapters in the areas of modeling creativity and knowledge based creative design that examines the potential role and form of computer aided design which supports creativity It aims to define the state of the art of computational creativity in design as well as to identify research directions Published at a time when the field of computational creativity in design is still immature it should influence the directions of growth and assist the field in reaching maturity     **Design for Transformation** Vikramjit Singh, 2007     **Design Thinking Research** Hasso

Plattner, Christoph Meinel, Larry Leifer, 2015-09-08 This book summarizes the results of Design Thinking Research carried out at Stanford University in Palo Alto California USA and Hasso Plattner Institute in Potsdam Germany The authors offer readers a closer look at Design Thinking with its processes of innovations and methods The contents of the articles range from how to design ideas methods and technologies via creativity experiments and wicked problem solutions to creative collaboration in the real world and the connectivity of designers and engineers But the topics go beyond this in their detailed exploration of design thinking and its use in IT systems engineering fields and even from a management perspective The authors show how these methods and strategies work in companies introduce new technologies and their functions and demonstrate how Design Thinking can influence as diverse a topic area as marriage Furthermore we see how special design thinking use functions in solving wicked problems in complex fields Thinking and creating innovations are basically and inherently human so is Design Thinking Due to this Design Thinking is not only a factual matter or a result of special courses nor of being gifted or trained it s a way of dealing with our environment and improving techniques technologies and life

*Designerly Ways of Knowing* Nigel Cross, 2007-10-05 The concept Designerly Ways of Knowing emerged in the late 1970s alongside new approaches in design education This book is a unique insight into expanding discipline area with important implications for design research education and practice     *Design Thinking for Innovation* Walter Brenner, Falk

Uebernickel, 2016-02-24 This book presents the full scope of Design Thinking in theory and practice bringing together prominent opinion leaders and experienced practitioners who share their insights approaches and lessons learned As Design Thinking is gaining popularity in the context of innovation and information management the book elaborates the specific interpretations and meanings of the concept in different fields including engineering management and information



technology As such it offers students and professionals a sourcebook revealing the power of Design Thinking while providing academics a roadmap for further research

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