



# Sensory Design

**Masaaki Kurosu, Ayako Hashizume**



## **Sensory Design:**

**Sensory Design** Joy Monice Malnar, Frank Vodvarka, 2004 What if we designed for all of our senses Suppose for a moment that sound touch and odor were treated as the equals of sight and emotion considered as important as cognition What would our built environment be like if sensory response sentiment and memory were critical design factors the equals of structure and program In **Sensory Design** Joy Monice Malnar and Frank Vodvarka explore the nature of our responses to spatial constructs from various sorts of buildings to gardens and outdoor spaces to constructions of fantasy To the degree that this response can be calculated it can serve as a typology for the design of significant spaces one that would sharply contrast with the Cartesian model that dominates architecture today In developing this typology the authors consult the environmental sciences anthropology psychology and architectural theory as well as the spatial analysis found in literary depiction Finally they examine the opportunities that CAVE and other immersive virtual reality technologies present in furthering a new sensory oriented design paradigm The result is a new philosophy of design that both celebrates our sensuous occupation of the built environment and creates more humane design A revolutionary approach to the built environment that embraces all of our senses and modes of understanding

**Sensory Design** Joy Monice Malnar, 2004 Malnar architecture U of Illinois Urbana Champaign and Vodvarka fine arts Loyola U Chicago explore the nature of sensory response to the spatial constructs that people invest with meaning ranging from buildings of various sorts and purposes to gardens to constructions of fantasy These responses can serve as a typology for the design of si

**Sensory Arts and Design** Ian Heywood, 2020-05-27 Artists designers and researchers are increasingly seeking new ways to understand and explore the creative and practical significance of the senses This ground breaking book brings art and design into the field of sensory studies providing a clear introduction to the field and outlining important developments and new directions A compelling exploration of both theory and practice **Sensory Arts and Design** brings together a wide variety of examples from contemporary art and design which share a sensory dimension in their development or user experience Divided into three parts the book examines the design applications of new technology with sensing capacities the role of the senses in creating new imaginative environments and the significance of the senses within different cultural practices The thirteen chapters cover a highly diverse range of issues from the urban environment architecture and soundscapes to gustatory art multisensory perception in painting music and drawing and the relationship between vision and smell Initiated by Insight a research group at Lancaster Institute for the Contemporary Arts widely recognised as a center of research excellence the project brings together a team of experts from Britain Europe and North America This timely book is destined to make a significant contribution to the scholarly development of this emerging field An important read for students and scholars in sensory studies design art and visual culture

**Sensory Architecture** Juliana Duarte Neves, 2024-05-02 Originally released in 2017 the book **Sensory Architecture The Art of Designing for All Senses** by Juliana Duarte Neves receives a second edition

in 2024 revised and expanded Over the past six years there have been numerous advancements in the study of sensory architecture and many initiatives focused on emotionally engaging the visitor using the principles of sensory architecture which has become a gateway to new fields of research This second edition brings a refinement of the design methodology proposed in the original book and current examples that make its understanding and applicability clearer And the new chapter *Unfolding of Sensory Architecture* presents two examples of more recent areas of study This new edition broadens horizons with the inclusion of two fundamental contributions to the consolidation of the field of sensory architecture studies in Brazil the excellent reflections made by Lor Cr zel in the text *The intertwining of sensory architecture with neuroarchitecture a synesthetic exploration* and the very personal contribution of Ana Paula Chacur architect researcher and mother of two autistic children enriches the content with her unique perspective on Autism Spectrum Disorder and sensory architecture points out Juliana It is crucial that architecture collaborates so that individuals with Autism Spectrum Disorder ASD feel safe and balanced

Design and Digital Interaction Doctor Gjoko Muratovski, Craig Vogel, 2019-05-22 Just as the term design has been going through change growth and expansion of meaning and interpretation in practice and education the same can be said for design research The traditional boundaries of design are dissolving and connections are being established with other fields at an exponential rate Based on the proceedings from the IASDR 2017 Conference *Re Research* is an edited collection that showcases a curated selection of 83 papers just over half of the works presented at the conference With topics ranging from the introduction of design in the primary education sector to designing information for Artificial Intelligence systems this book collection demonstrates the diverse perspectives of design and design research Divided into seven thematic volumes this collection maps out where the field of design research is now From Software Engineering to Information Design Yvette Shen Most academic methodologies are developed from a prescribed methodological process that is limited to a specific area of study However the disciplinary landscape in which the knowledge is established is being rapidly reconfigured Given the vast varieties of practices and knowledge base required from information designers it is even more crucial for them to look outside of the traditional visual design fields and seek diversities for better research and creation methods The two disciplines software engineering and information design are often perceived as one provides technical solutions to the other This essay intends to move beyond the common perception and identify relevant issues in software engineering design that resonate with the information design process The issues include the multi component planning approach the human oriented agile method design concepts such as abstraction decomposition component modularity hierarchical relationship and extensibility The perspectives from software engineering design and information design is examined through units of analysis terminology explanations and forms of communications The collective design methods and principles provide a systematic framework to the methodological thinking in information design The discussion serves the purpose of encouraging more conceptual based conversations between information design and other disciplines

especially in the fields of science and technology Designing Information for Artificial Intelligence Path Recommendation and User Acceptance in a Virtual Space Jong Myoung Lee Kyung Hoon Hyun In this study the authors propose two information layout strategies informative layout and decisive layout that influence the user acceptance rate on recommended information The informative layout is the degree of descriptions in the recommendation process The decisive layout is the degree of choices in recommendations Thus the objective of the paper is to discover how users acceptance of a recommendation changes when the recommendation is displayed in different degrees of informative and decisive layouts To this end we have conducted the following tasks 1 sophisticated software was created with JavaScript to conduct experiments with users online 2 experiment subjects N 247 with various education and demographic levels were recruited 3 user acceptance rate depending on the information layout strategy was collected 4 the relationships between information layout strategy and user acceptance of the recommended information were computationally analyzed The results of the study indicate that the information layout strategy proposed in this research significantly influences user acceptance of the recommended information Also this research identified effective combinations of informative and decisive layouts to maximize the user acceptance The Research on Design Framework for Citizen Science Zhiyong Fu Jia Lin Lu Wang Citizen science is a process in which ordinary citizens contribute to scientific research How to create citizen science design framework to achieve better awareness initiative and action is our research focus This paper will explore citizen science design in the context of smart city on the basis of activity theory and by means of digital social innovation Smart City concept provides new elements including social communication collaborative design and innovative community to citizen science With the rapid development of science and information and communication technologies ICTs and with the arrival of Web 2.0 social innovation is endowed with digital factors so as to be evolved to digital social innovation DSI which gives various design perspectives on citizen science and also plays an important part in establishing citizen science evaluation model In this paper a citizen science design framework consisting of citizen science content model design model and evaluation model is proposed by discussing related theories models and citizen science cases It acts as not only design lead to inspire two citizen science case practices but also an evaluation term in the view of citizen science The framework and models developed in this research will hopefully be leveraged and refined to support citizen science design in the future Finding the Expectations of Smart Home and Designing the Meaningful Technology for Delivering Customers Satisfaction Yaliang Chuang Lin Lin Chen Yu Shan Athena Chen Smart home is becoming a focus in both literature and product development practices The current study employed a human centered design approach to understand users desires and expectations from their living context Six critical themes were developed via in deep interviews field observations and data analysis They are housed as a supportive friend atmosphere generator theme songs for every moment coordinator and reminder life memory collector and routine builder for young generations Those concepts were partially integrated to define the value proposition for the target user

group of parents with young children This guides the design ideation and video prototyping to illustrate the user experiences Through a focus group discussion the design concepts were validated with six potential customers The results also show that the design concept has the potential to motivate children's behaviors help to build their routine and has the flexibility to fulfill different needs toward the changes of the family's life cycle

Using Frame Analysis to Organize Designers Experience on the Cloud Julija Naskova This paper demonstrates how Goffman's frame analysis is applied in a research on designers' experience with Cloud-based digital tools At the base of Goffman's structure is the primary frame in this case designers' experience with computer-based digital tools These tools transition to the Cloud initiated by business are called fabrications Goffman's structural issues in fabrication such as retransformations and the nature of recontainment are also discussed through contemporary examples These fabrications are used or keyed by active agents from various design fields The data collected showed different levels of understanding of Cloud technology and the application of various tools in everyday design practices Thus the interviewees were clustered into three groups designers developers and artists Their experiences form the creative technology and experimental frame derived from keying of the primary frame Design researchers can selectively borrow elements from frame analysis complex structure to build an effective user experience narrative

Unintended Value Implications of Graphical Representations of Data Milena Radzikowska Stan Ruecker The design of meaningful graphical objects to represent collection items must balance the following amount of useful information that can be communicated through the object's graphical form meaningful graphical difference between individual items or groups of items and restraint in form complexity to allow for the simultaneous display of numerous collection items at a small size How the user interprets difference and sameness and more importantly whether the user attaches hierarchical value to the emergent categories may play a significant role in determining whether that user focuses attention on one set of data over another on one set of processes over another and ultimately on one set of tasks over another This paper examines the significant consequences for the understanding of the user resulting from representation of data files and other objects in a human computer interface HCI and proposes that new approaches may be indicated given the growing complexity of what is being represented and how what is represented can be used

Mapping Communication Design through the Web Giulia De Rossi Paolo Ciuccarelli Design is by nature an interdisciplinary dynamic and fluid discipline To define what design is has proved to be a very difficult if not impossible and meaningless exercise making also the understanding of the evolution of both the design discipline and practice a complex challenge A rapidly changing technological landscape increases the breadth of design both in geographical terms and by extending to new domains merging with different and new disciplines Communication Design especially being closer to the information and the media spheres is the most sensitive and receptive design area Communication Design finds online a fertile ground for its growth and developments thus the online environment and the Web especially can be explored dug and mapped as mirrors of that evolution The aim of our research is to map

through the Web the complexity of the intersections between design as a discipline and design as a field of practice Our exploration and representation of the online design territory covered four online environments Behance Wikipedia Google and the websites of the top 100 design universities The study has been conducted by using digital statistical and visualization methods This exploration seeks neither to confirm theories nor predict the future rather it wants to make explicit and observable what Communication Design has become today It aims to screenshot the state of the art the emerging paths in order to understand where and how it is going to develop The attempt is to make design as a complex phenomenon visible through the construction of a set of maps and representations for professors students and associations These representations are tools to trigger reflections on the discipline and the profession bringing a contribution to the experimental research in this field

A Content Analysis of Wired Magazine and Self Tracking Devices Serefraz Akyaman Living in a modern society is becoming more complex so in order to keep up with a person should accomplish various kinds of task at once Daily life requirements obligations and the capacity of human memory lead us to collect and control our behaviors bodies and lives through self tracking devices Aim of this paper analysis of emerging digitalized self tracking trend through content analysis of Wired Magazine Wired Magazine both in printed and online monthly publish technology related articles how emerging technologies affect culture the economy and politics It reaches more than 30 million people each month through wired com digital edition Since the term quantified self emerged for the first time in Wired Magazine for this reason Wired Magazine is one of the most important sources to be used for content analysis This present study carries out a content analysis of all the issues until December 2016 through self tracking and two other related terms quantified self and lifelogging The usage period and popularity of these terms and the relation network with the main topics and the subtopics are examined As a result it is possible to define Wired Magazine as a medium in which industry academia and users come together and feed each other reciprocally Wired Magazine has contributed significantly and continues to contribute to the development of the digitalized self tracking trend in terms of its content

Interaction Design and Use Innovation for Interactive Products

Geehyuck Jeong James Self Product use innovation is a means to facilitate the design driven innovation approach We explore how the mode of use concept may apply to state of the art product interactions to enhance user experience and provide opportunities for design driven innovation within the interactive product space To achieve this we apply taxonomy of interactions to classify interaction styles as along the two dimensions explanatory or exploratory and discrete or composite Adopting the research through design approach two interactive mood lamps were developed and expressed as high fidelity prototypes These were then used as stimuli to evaluate the influence of interaction style on product experience Results indicated the touch free magic interaction style an interaction providing explorative and composite modes of interaction was initially considered more innovative in terms of use However participants also expressed negative emotions related to dissatisfaction and embarrassment toward the touch free magic interaction due to an inability to intuitively understand the

use functions Implications for the application of use innovation within the interactive product context are finally discussed

### Study of the Implementability of Tactile Feedback While Operating Touch Panel Device From Two Directions of Efficacy and Feasibility

Jien Wakasugi Masayoshi Kubo In a few years the number of apparatuses with touch panel displays like smartphones will increase People who are visually impaired hearing impaired and disabled can use tactile feedback for receiving incoming communications However opportunities for tactile feedback applications are limited Our hypotheses follow as there are haptics patterns suitable for use cases we will design haptics samples of tactile feedback and inspect their effectiveness This study focuses on haptics patterns showing a relationship between the user's impression and various use situations Previous studies have been insufficient so our target subjects inspected a limited number of objects This study consists of two inspections We collected various haptics patterns that users had defined and analyzed the first inspection For the next inspection we manufactured a smartphone prototype We matched the impression of eight haptics patterns types that we got from the subjects in the first analysis with different situations and tested various replies Tests were repeated and recorded for various situations As different haptics vibrations were added to e-mails we inspected whether subjects could distinguish a difference in their meanings Thus we added different haptics patterns that corresponded to various situations We concluded the hypothesis was effective for subjects We could inspect the hypotheses in relation to subjects' impressions of the haptics pattern Additionally we obtained different results between elders and youths Consequently we suggested design guidelines for the new tactile feedback of the smartphone application We suspect that haptics will be possible for a variety of interactive designs

### Sensory Reflection toward Product Design Ideation

Pratiksha Prabhakar Heekyoung Jung Vittoria Daiello As humans' information processing abilities have become more and more disconnected from their senses due to an increasing quantity of abstract information so have design processes There is a demand for designers to include human sensation as part of engaging product forms and experiences This qualitative case study explores the role of senses and their potential use in design ideation A literature review of related theoretical and pragmatic perspectives and a survey of 15-20 product examples that provide unique sensory experiences are analyzed and sorted through four sensory design strategies Sensory Augmentation Conversion Transition and Isolation Using the four strategies as core concepts a Sensory Reflective Framework with a mindful focus on sensory appreciation and translation is proposed to support designers' ideation in creating unique product forms and experiences The paper reports the process and findings of a sensory ideation workshop which was conducted based on the framework and further discusses the development and implications of the framework in supporting designers' sensory ideation

Digital Sensory Science J. Ben Lawlor, Jean A. McEwan, David Labbe, 2023-07-26

Digital Sensory Science Applications in New Product Development provides a comprehensive overview of digital sensory science an area that has broadly been defined as the use of technology to capture or model human sensory perception This book provides methods on how to best recruit and train sensory panels suggestions for data capture and data analysis an



overview of sensory science instruments and information on the use and relevance of virtual and augmented reality to capture sensory perception This book offers practical guidance to researchers in and practitioners of sensory and consumer science alike Explores how technologies create further opportunities around the use of sensory panels instrumentation and flavor biometrics and implicit measures immersion and context and communication of sensory findings Presents these opportunities with case studies Provides guidance for both researchers and practitioners of sensory science in a digital age

**Integrated Storytelling by Design** Klaus Paulsen, 2021-07-06 This pioneering work equips you with the skills needed to create and design powerful stories and concepts for interactive digital multi platform storytelling and experience design that will take audience engagement to the next level Klaus Sommer Paulsen presents a bold new vision of what storytelling can become if it is reinvented as an audience centric design method His practices unlock new ways of combining story with experience for a variety of existing new and upcoming platforms Merging theory and practice storytelling and design principles this innovative toolkit instructs the next generation of creators on how to successfully balance narratives design and digital innovation to develop strategies and concepts that both apply and transcend current technology Packed with theory and exercises intended to unlock new narrative dimensions Integrated Storytelling by Design is a must read for creative professionals looking to shape the future of themed branded and immersive experiences *Proceedings of the 21st Congress of the International Ergonomics Association (IEA 2021)* Nancy L. Black, W. Patrick Neumann, Ian Noy, 2021-04-30 This book presents the proceedings of the 21st Congress of the International Ergonomics Association IEA 2021 held online on June 13 18 2021 By highlighting the latest theories and models as well as cutting edge technologies and applications and by combining findings from a range of disciplines including engineering design robotics healthcare management computer science human biology and behavioral science it provides researchers and practitioners alike with a comprehensive timely guide on human factors and ergonomics It also offers an excellent source of innovative ideas to stimulate future discussions and developments aimed at applying knowledge and techniques to optimize system performance while at the same time promoting the health safety and wellbeing of individuals The proceedings include papers from researchers and practitioners scientists and physicians institutional leaders managers and policy makers that contribute to constructing the Human Factors and Ergonomics approach across a variety of methodologies domains and productive sectors This volume includes papers addressing the following topics Activity Theories for Work Analysis and Design ATWAD Organisation design and management ODAM Ergonomic Work Analysis and Training EWAT Systems HF E HF E Education and Professional Certification Development [Designing for the 21st Century](#) Tom Inns, 2007 An exploration of emergent roles for design and the 21st century designer explored through the work of 21 research teams Over a twelve month period each of these groups held a series of workshops and events to examine different facets of future design activity Each of the contributions describes the context of enquiry the journey taken by the research team and key insights generated through discourse Editor and Initiative

Director Tom Inns provides an introductory chapter that suggests ways that the reader might navigate these different viewpoints

**Transdisciplinary Case Studies on Design for Food and Sustainability** Sonia Massari, 2021-04-25

Transdisciplinary Case Studies on Design for Food and Sustainability a volume in the Consumer Science and Strategic Marketing series analyzes the interconnectivity of sustainability food and design demonstrating the presence of food design in various food related fields of study Broken into six parts the book begins with the theory behind food and design The following five sections include several case studies highlighting the different forms and applications of food design including the use of food design in production and distribution in food and restaurant businesses in territory identity in social food design and with regard to post consumption Using a case study approach to meet the needs of both academics and practitioners Transdisciplinary Case Studies on Design for Food and Sustainability includes practical examples to illustrate food system challenges to explain phenomena and to build theory Includes practical examples to illustrate food system challenges to explain phenomena and to build theory Considers impacts use assessments and scalability assets when presenting projects and case studies Addresses practical problems in food design

*The Architect's Eye* Tom Porter, 1997

Tom Porter explores the way we see and the way we draw architectural ideas He looks at the new ways of depicting the shapes and colours of architectural constructions using modern computer aided design software and virtual reality models

**The senses in interior design** John Potvin, Marie-Ève Marchand, Benoit Beaulieu, 2023-09-05

The senses in interior design examines how sight touch smell hearing and taste have been mobilised within various forms of interiors The chapters explore how the body navigates and negotiates the realities of designed interiors and challenge the traditional focus on star designers or ideal interiors that have left sensorial agency at the margins of design history From the sensually gendered role of the fireplace in late sixteenth century Italy to the synaesthetic d cors of Comte Robert de Montesquiou and the sensorial stimuli of Aesop stores each chapter brings a new perspective on the central role that the senses have played in the conception experiences and uses of interiors

**HCI International 2024 Posters** Constantine Stephanidis, Margherita Antona, Stavroula Ntoa, Gavriel Salvendy, 2024-05-31

The seven volume set CCIS 2114 2120 contains the extended abstracts of the posters presented during the 26th International Conference on Human Computer Interaction HCII 2024 held in Washington DC USA during June 29 July 4 2024 The total of 1271 papers and 309 posters included in the HCII 2024 proceedings were carefully reviewed and selected from 5108 submissions The posters presented in these seven volumes are organized in the following topical sections Part I HCI Design Theories Methods Tools and Case Studies User Experience Evaluation Methods and Case Studies Emotions in HCI Human Robot Interaction Part II Inclusive Designs and Applications Aging and Technology Part III eXtended Reality and the Metaverse Interacting with Cultural Heritage Art and Creativity Part IV HCI in Learning and Education HCI in Games Part V HCI in Business and Marketing HCI in Mobility and Automated Driving HCI in Psychotherapy and Mental Health Part VI Interacting with the Web Social Media and Digital Services

Interaction in the Museum HCI in Healthcare Part VII AI Algorithms and Tools in HCI Interacting with Large Language Models and Generative AI Interacting in Intelligent Environments HCI in Complex Industrial Environments Navigating the Technological Tide: The Evolution and Challenges of Business Model Innovation Bahaaeddin Alareeni, Allam Hamdan, 2024-08-10 In an era defined by technological breakthroughs such as AI blockchain and IoT this book offers a fresh and practical approach to Business Model Innovation BMI It delves into how technological advancements drive new business models and enhance operational efficiency providing actionable insights and real world examples for business leaders strategists operations managers entrepreneurs and students in business and technology disciplines Encouraging diverse research methods including theoretical empirical and multimethod studies it welcomes manuscripts with clear managerial or policy implications Aimed at students scholars researchers professionals executives government agencies and policymakers this book equips readers with tools to succeed in today's dynamic business environment and supports multidisciplinary research to advance innovation management practices Human-Computer Interaction Masaaki Kurosu, Ayako Hashizume, 2025-05-31 This seven volume set constitutes the refereed proceedings of the Human Computer Interaction thematic area of the 27th International Conference on Human Computer Interaction HCII 2025 held in Gothenburg Sweden during June 22-27 2025 The HCI Thematic Area constitutes a forum for scientific research and addressing challenging and innovative topics in Human Computer Interaction theory methodology and practice including for example novel theoretical approaches to interaction novel user interface concepts and technologies novel interaction devices UI development methods environments and tools multimodal user interfaces emotions in HCI aesthetic issues HCI and children evaluation methods and tools and many others Cross-Cultural Design. Applications in Business, Communication, Health, Well-being, and Inclusiveness Pei-Luen Patrick Rau, 2022-06-16 The four volume set LNCS 13311 13314 constitutes the refereed proceedings of the 14th International Conference on Cross Cultural Design CCD 2022 which was held as part of HCI International 2022 and took place virtually during June 26-July 1 2022 The papers included in the HCII CCD volume set were organized in topical sections as follows Part I Cross Cultural Interaction Design Collaborative and Participatory Cross Cultural Design Cross Cultural Differences and HCI Aspects of Intercultural Design Part II Cross Cultural Learning Training and Education Cross Cultural Design in Arts and Music Creative Industries and Cultural Heritage under a Cross Cultural Perspective Cross Cultural Virtual Reality and Games Part III Intercultural Business Communication Intercultural Business Communication HCI and the Global Social Change Imposed by COVID-19 Intercultural Design for Well-being and Inclusiveness Part IV Cross Cultural Product and Service Design Cross Cultural Mobility and Automotive UX Design Design and Culture in Social Development and Digital Transformation of Cities and Urban Areas Cross Cultural Design in Intelligent Environments Human Factors and Ergonomics for the Gulf Cooperation Council Shatha N. Samman, 2018-07-27 Human Factors and Ergonomics HFE is introduced to students academics researchers practitioners policy makers and others in the Gulf

Cooperation Council GCC A holistic approach is taken to emphasize the breadth and depth of HFE by providing both theory and applications in the field Providing HFE perspectives from expert academics from multidisciplinary and culturally diverse backgrounds it contains case studies written by industry professionals highlighting their work from Bahrain Kuwait Oman Saudi Arabia and United Arab Emirates Features The first HFE book for the GCC region with case studies showcasing the economics of ergonomics Presents easy to read chapters covering principles methodologies applications future trends and key terms Encompasses both the theory and application of HFE fields discussing processes technologies and practices Written for readers with no prior background of HFE

### **The Routledge International Handbook of Sensory**

**Ethnography** Phillip Vannini, 2023-11-28 The Routledge International Handbook of Sensory Ethnography reviews and expands the field and scope of sensory ethnography by fostering new links among sensory affective more than human non representational and multimodal sensory research traditions and composition styles From writing and film to performance and sonic documentation the handbook reimagines the boundaries of sensory ethnography and posits new possibilities for scholarship conducted through the senses and for the senses Sensory ethnography is a transdisciplinary research methodology focused on the significance of all the senses in perceiving creating and conveying meaning Drawing from a wide variety of strategies that involve the senses as a means of inquiry objects of study and forms of expression sensory ethnography has played a fundamental role in the contemporary evolution of ethnography writ large as a reflexive embodied situated and multimodal form of scholarship The handbook dwells on subjects like the genealogy of sensory ethnography the implications of race in ethnographic inquiry opening up ethnographic practice to simulate the future using participatory sensory ethnography for disability studies the untapped potential of digital touch and much more This is the most definitive reference text available on the market and is intended for advanced undergraduates graduate students and researchers in anthropology sociology and the social sciences and will serve as a state of the art resource for sensory ethnographers worldwide

**Usability and User Experience** Tareq Z. Ahram, Christianne Falcão, 2025-07-26 Proceedings of the 16th International Conference on Applied Human Factors and Ergonomics and the Affiliated Conferences Orlando Florida USA 26 30 July 2025

**Artificial Intelligence and Social Computing** Tareq Ahram, Jay Kalra, Waldemar Karwowski, 2024-07-24 Proceedings of the 15th International Conference on Applied Human Factors and Ergonomics and the Affiliated Conferences Nice France 24 27 July 2024

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