1. Record Nr. UNISA996464500203316 Culture and computing, design thinking and cultural computing: 9th **Titolo** international conference, CetC 2021, held as part of the 23rd HCI international conference, HCII 2021, virtual event, July 24-29, 2021, proceedings, part II / / Matthias Rauterberg (editor) Pubbl/distr/stampa Cham, Switzerland:,: Springer,, [2021] ©2021 **ISBN** 3-030-77431-7 Descrizione fisica 1 online resource (506 pages) Collana Lecture Notes in Computer Science; ; v.12795 Disciplina 306.0285 Soggetti Intercultural communication Computers and civilization Cultural property Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Intro -- Foreword -- HCI International 2021 Thematic Areas and Affiliated Conferences -- Contents - Part II -- Contents - Part I --Design Thinking in Cultural Contexts -- Digital Literacy-Based User Experience Design for Medication-Allergy Patients Care -- 1 Introduction -- 1.1 Research Hypothesis -- 1.2 Research Process -- 2 Digital Literacy and Social Inclusiveness -- 2.1 Digital Literacy -- 2.2 Digital Literacy of Elderly Generation -- 2.3 Digital Health Care in Asthma Medicine Allergy Care -- 3 User Test of Existing Application -- 3.1 User Experience Analysis on Drug Allergy Alert App. -- 3.2

> Interaction Heuristics -- 4 Digital Literacy-Based User Experience Design -- 4.1 Key Interaction Elements of the UX Strategy -- 5 User Experience and Interface Design -- 5.1 Typography and Color Branding -- 5.2 Self-generate Data Visualization -- 5.3 Alert (SOS) System -- 5.4

Service Flowchart -- 5.5 Wireframe Design -- 6 Conclusions --

and Creating Universally Designed Services -- 1 Introduction -- 2
Background -- 2.1 Inclusive Design Methodology -- 2.2 Service Design Methodology -- 3 Research Approach -- 3.1 Prioritizing Initiatives

References -- Advancing Inclusive Service Design: Defining, Evaluating

Design -- 4 Results -- 4.1 A Working Definition -- 4.2 Method 1: Empathic Service Safaris -- 4.3 Method 2: Inclusive Core Persona -- 4.4 Method 3: Touchpoint Accessibility Assessment -- 4.5 Method 4: Service UD Evaluation -- 5 Discussion -- 5.1 Merging SD and UD Methods to Build a Methodological Framework -- 5.2 Applying the Working Definition to Evaluate the UD of a Service -- 6 Conclusion -- References -- Civic Community Archiving with the Platform for Experimental Collaborative Ethnography: Double Binds and Design Challenges -- 1 Introduction. 2 Memory Making as Cultural and Political Praxis -- 2.1 Ethnographic Studies of Thought Styles, Memory, Evidence, and Trading Zones -- 2.2 From Ethnography to Design and Capacity Building -- 3 The Platform for Experimental Collaborative Ethnography -- 3.1 PECE Software and Research -- 3.2 PECE Architecture and Functionality -- 3.3 PECE Projects -- 3.4 PECE, Writing Culture, and HCI -- 4 Designing PECE-Supported Civic Archives -- 5 PECE Civic Archives in Construction --5.1 Research Data Share (Nairobi, Kenya) -- 5.2 Recollecting Multinational Petrochemical Companies (Taiwan, USA, Vietnam) -- 6 Double Binds and Design Challenges -- 7 Deutero-Learning, Para-Sites and PECE-Supported Civic Community Archiving -- References -- What Could Safety Research Contribute to Technology Design? -- 1 Introduction -- 2 Attempts to Direct AI Design and Use Through Ethics -- 2.1 Between High Hopes, Real Worries, and Gloomy Dystopias -- 2.2 Morally Relevant Themes and Ethical Approaches -- 2.3 Overview of Ethical Principles for AI -- 2.4 Why Ethics Does Not Play a Role -- 2.5 Suggestions for Improvement -- 3 Organizational Safety Research and Its Findings -- 3.1 The Idea of Improving Safety -- 3.2 Linear Accident Models -- 3.3 Focus on Human-Machine Interface -- 3.4 The Impact of Organizational Factors -- 3.5 The Systems Approach to Accidents -- 4 What Could Safety Research Contribute to the Ethics of Al Design? -- References -- User Interface Design of Virtual Conferencing Tools - Towards a Method for Considering Cultural Impact - Exemplified by Zoom -- 1 Introduction and Related Work --1.1 Task Complexity -- 1.2 Determining the Task Complexity -- 1.3 Deriving UI Assistance and UI Elements -- 2 Culture and UI Design --2.1 UI Design for Different Cultural Contexts -- 2.2 Connecting HCI to Culture -- 2.3 Evaluating Six Cultural Environments. 3 Towards Recommendations for Intercultural UI Design -- 3.1 Cultural Interaction Indicators -- 3.2 Hypotheses -- 4 Discussion -- 5 Conclusion -- References -- Infrastructuring for Collective Heritage Knowledge Production -- 1 Introduction -- 2 Frictions in Digital Cultural Heritage -- 3 Infrastructuring Explorations for Bridging a Gap -- 4 Towards Collective Heritage Knowledge Production? -- References -- Core Concepts Linking Exhibit Design and the Visitor Experience in Science Centers: An Early Framework -- 1 Introduction -- 2 Related Work -- 2.1 The Visitor Experience with Interactive Exhibits -- 2.2 Expertise in Exhibit Design -- 2.3 Expert Mental Models -- 3 Methodology -- 3.1 Card Sorting -- 4 Card Sorting Results -- 4.1 Level of Agreement Between Items -- 4.2 Dendrogram Analysis -- 4.3 Finalizing Categories and Category Labels -- 5 DEX Framework -- 6 Implications for Exhibit Design -- 7 Conclusions, Limitations, and Future Work -- References -- Socio-emotional Experience in Human Technology Interaction Design - A Fashion Framework Proposal -- 1 Introduction -- 1.1 Fashion and Collective Emotions --1.2 Design, Culture and Social Experience -- 2 Collective and Group Emotions in Culture and Social Contexts -- 2.1 Cultural Symbolism and Social Context -- 2.2 Emotional Culture -- 3 Symbolic

to Promote UD in SD -- 3.2 Empirical Settings to Inform Generative

Interactionism and Its Function in Social Experience -- 3.1 The Self and Self-representation in Social Emotional Experience -- 3.2 Self, Expectations and Conformity -- 3.3 Feeling Rules -- 4 Emotional Appraisal Towards a Social Model of Experience -- 4.1 Motivation, Emotions and Technological Experience -- 4.2 Fashion Framework of Social Emotions in Technology Interaction Design - A Proposal (FASHEM) -- References -- Human Research in Technology Design -- 1 Introduction -- 2 Design Thinking -- 3 Explaining -- 4 Analysis of Actions in Human Research.

5 Explanatory Discourses and Frameworks -- 6 Human Research and Natural Science in Technology Design -- References -- Research on the Public Design Innovation Method Based on the Sharing Concept

of Cultural Computing -- 1 The Trend of Sharing and Co-creation in Cultural Computing -- 1.1 Cultural Computing Needs to Serve the Public -- 1.2 Cultural Computing Requires Public Participation in Co-creation -- 1.3 The Concept of "public Design Innovation" Based on the Shared Concept of Cultural Computing is Proposed -- 2 Public Design System Framework and Innovative Methods Based on Cultural Computing Sharing -- 2.1 The Basic Characteristics and Structure of the Framework Model -- 2.2 System Framework of Cultural Computing Technology Tool Support -- 2.3 The Implementation Path and Operation Method of Public Design Innovation -- 3 The Practice of Public Design Case Based on Cultural Computing Sharing -- 3.1 Graphic Design Applications in the Shared Concept of Cultural Computing -- 3.2 Space Design Applications in the Shared Concept of Cultural Computing -- References -- Digital Humanities, New Media and Culture -- The Ontology of Mixed Reality Agents Memorializing the Dead and Dying -- 1 Introduction -- 1.1 Case Studies of Existing Mixed Reality Interactive Agent Memorials -- 1.2 Methodology and Structure -- 2 Thanatology in Human Computer Interaction -- 3 Digital Thanatography as an Interactive Non-fiction -- 3.1 From Interactive Non-fiction to Interactive Posthumous Persona -- 3.2 Establishing the Persona in an MR IAM -- 4 Conversational Capacity's Influence on the Posthumous Persona -- 4.1 Natural Language Processing and an MR IAM's Conversational Capacity -- 5 Spatializing the Posthumous Presence -- 6 The Ontology of Mixed Reality Interactive Agents Memorials -- 7 Conclusion -- References -- The Human Mind and Engineering Models -- 1 Introduction. 2 Some Examples Supporting the View of Modelling the Human Mind 'in the Context of the Interaction' -- 3 Conclusions -- References --Social Media Data for the Conservation of Historic Urban Landscapes: Prospects and Challenges -- 1 Historic Urban Landscape, Digital Technologies, and Social Inclusion -- 2 Social Media and the Dynamics of Heritage Co-production -- 2.1 Everyday Heritage on Social Media --2.2 Heritage Appropriation by Online Communities -- 3 Conclusion --References -- Questions in Cognitive Mimetics -- 1 Introduction -- 1.1 Mapping Relations -- 2 Fundamental Questions -- 3 Design Questions -- 3.1 Research -- 3.2 Research Example -- 3.3 Implementation and Design -- 3.4 Design Problems and Representations -- 4 Conclusion and Future Directions -- References -- Memory Modalities Opening-up Digital Heritage Infrastructures -- 1 Introduction -- 2 Making Memories -- 2.1 Memory Making as Social and Cultural Process -- 2.2 Institutional Memory Making -- 2.3 Memory Making of People and Groups -- 3 Shifting the Modalities for Memory Making: The Digital Turn -- 4 Opening up Memory Making in Digital Media Infrastructures -- 4.1 Institutional Activities -- 4.2 Problems, Challenges, and Requirements for Opening up Memory Making -- 5 Digital Memory Modalities: Inquiring the Role of HCI -- References -- Youth

and Algorithmic Memory: Co-producing Personal Memory on Instagram -- 1 Introduction -- 2 Why Study Algorithmic Memory? -- 3 Methodology -- 4 Remembering Algorithmically -- 4.1 A Life of Digital Memories -- 4.2 Algorithms as Singular Actors -- 4.3 What Does This Mean for Memory Making? -- 5 Conclusion -- References -- Culture in the Post Pandemic Era -- 1 Introduction -- 2 Culture and AI -- 3 Decolonisation in Design and AI -- 4 AI, Big Data and Personalisation -- 5 Beyond Human Centredness -- 6 Conclusion - Building a Cross Cultural Design System. References.