

Contents

Foreword

Johannes C. Bernhardt and Sonja Thiel 9

Introduction

Johannes C. Bernhardt and Sonja Thiel 11

Part 1: Reflections

The Role of Culture in the Intelligence of AI

Mercedes Bunz 23

Why AI Cannot Think

A Theoretical Approach

Daniel M. Feige 31

AI and Art

Arguments for Practice

Arno Schubbach 41

The Hidden Costs of AI

Decolonization from Practice back to Theory

Oumaima Hajri 57

Dead End or Way Out?

Generating Critical Information about Painting Collections with AI

Lukas Fuchsgruber 65

Power, Data and Control

AI in the Museum

Oonagh Murphy 73

Managing AI

Developing Strategic and Ethical Guidelines for Museums <i>Sonja Thiel</i>	83
---	----

Museum-AI Assemblages

A Conceptual Framework for Ethnographic and Qualitative Research <i>Christoph Bareither</i>	99
--	----

Part 2: Perspectives

AI with Museums and Cultural Heritage

<i>Baptiste Caramiaux</i>	117
---------------------------------	-----

Troubleshoot?

A Global Mapping of AI in Museums <i>Isabel Hufschmidt</i>	131
---	-----

Digital Curation and AI

Opportunities and Risks for Cultural Heritage Institutions <i>Clemens Neudecker</i>	149
--	-----

Teaching Provenance to AI

An Annotation Scheme for Museum Data <i>Fabio Mariani, Lynn Rother, Max Koss</i>	163
---	-----

The Funding Program LINK—AI and Culture

Five Lessons Learned after Five Years <i>Tabea Golgath</i>	173
---	-----

Discovering Culture with AI

<i>Luba Elliott</i>	181
---------------------------	-----

Post-Truth

Archives, GPT-2 and Fake News <i>Marion Carré</i>	187
--	-----

Impostor Syndrome

GPT-3 between Fact and Fiction <i>Roland Fischer</i>	199
---	-----

Part 3: Applications

Algorithmic Exhibition-Making

Curating with Networks and Word Embeddings

Tillmann Ohm 209

Evaluating the Blackbox

Linking Viennese Art through AI

Nicole High-Steskal and Rainer Simon 217

Clouds of Symbols

The Digital Curator Project

Lukáš Pilka 225

xCurator

AI-Supported Exploration and Curation of Digital Collections

Sonja Thiel and Etienne Posthumus 233

Say the Image, Don't Make It

Empowering Human-AI Co-Creation through the Interactive Installation *Wishing Well*

Yannick Hofmann and Cecilia Preiß 245

CHIM—Chatbot in the Museum

Exploring and Explaining Museum Objects with Speech-Based AI

Oliver Gustke, Stefan Schaffer, Aaron Ruß 257

With AI to Art!

Chatting with Helen of Troy and Co. through IBM Watson

Melanie Fahden and Anja Gebauer 265

Exploring Beyond the Exhibits

Creating Knowledge for Social Robots in Public Spaces

Ana Müller, Michael Schiffmann, Anke Neumeister, Anja Richert 273

Tracking the Visitor

An Optical Indoor System for Visitor Research in Museums

Franz Koefler, Matthias Zuerl, Jitin Jami, Jindong Li, Dario Zanca, Bjoern Eskofier 287

Symotiv

Virtual Insights into the Symphony Orchestra

Michael Zöllner, Markus Bosl, Dirk Widmann, Moritz Krause 295

Notes on Contributors 303

Abstracts 311