

Springer

1st  
edition1st ed. 2020, XXV, 387 p.  
162 illus., 148 illus. in color.**Printed book**

Hardcover

**Printed book**

Hardcover

ISBN 978-3-030-42096-3

£ 44,99 | CHF 66,61 | 49,99 € |

54,99 € (A) | 53,49 € (D)

Available

**Discount group**

Science (SC)

**Product category**

Contributed volume

**Series**

Springer Series on Cultural Computing

**Other renditions**

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ISBN 978-3-030-42099-4

**Computer Science : User Interfaces and Human Computer Interaction**

Earnshaw, R., Liggett, S., Excell, P., Thalmann, D. (Eds.)

# Technology, Design and the Arts - Opportunities and Challenges

- Illustrates the widening intersection and importance of technology and the arts
- Explains how interdisciplinary challenges can be addressed effectively
- Generates new creative ideas through technology's interaction with the arts
- Shares many insights of artists and technologists on the creative process
- Enables current and future opportunities in technology and the arts to be realized

This open access book details the relationship between the artist and their created works, using tools such as information technology, computer environments, and interactive devices, for a range of information sources and application domains. This has produced new kinds of created works which can be viewed, explored, and interacted with, either as an installation or via a virtual environment such as the Internet. These processes generate new dimensions of understanding and experience for both the artist and the public's relationships with the works that are produced. This has raised a variety of interdisciplinary opportunities and issues, and these are examined. The symbiotic relationship between artistic works and the cultural context in which they are produced is reviewed. Technology can provide continuity by making traditional methods and techniques more efficient and effective. It can also provide discontinuity by opening up new perspectives and paradigms. This can generate new ideas, and produce a greater understanding of artistic processes and how they are implemented in practice. Tools have been used from the earliest times to create and modify artistic works. For example, naturally occurring pigments have been used for cave paintings. What has been created provides insight into the cultural context and social environment at the time of creation. There is an interplay between the goal of the creator, the selection and use of appropriate tools, and the materials and representations chosen.

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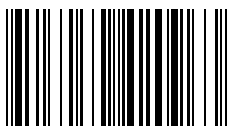
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ISBN 978-3-030-42096-3 / BIC: UYZG / SPRINGER NATURE: SCI18067

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