

Springer

1.
Auflage

2011, XVI, 286 p.

Gedrucktes Buch

Hardcover

Gedrucktes Buch

Hardcover

ISBN 978-0-85729-078-6

£ 149,99 | CHF 200,50 | 169,99 € |

186,99 € (A) | 181,89 € (D)

lieferbar

Rabattgruppe

Science (SC)

Produktkategorie

Nachschlagewerk

Reihe

Human-Computer Interaction Series

Other renditions

Softcover

ISBN 978-1-4471-6869-0

Softcover

ISBN 978-0-85729-080-9

Informatik : Benutzerschnittstellen und Mensch-Computer-Interaktion

Aigner, W., Miksch, S., Schumann, H., Tominski, C.

Visualization of Time-Oriented Data

- A comprehensive overview of the field
- Includes a survey of cutting-edge, interactive Information Visualization techniques for time-oriented data
- Researchers, students and practitioners will benefit from the categorization scheme that makes the field graspable
- Unified characterisation of techniques enables the comparison of different methods along distinct attributes

Time is an exceptional dimension that is common to many application domains such as medicine, engineering, business, or science. Due to the distinct characteristics of time, appropriate visual and analytical methods are required to explore and analyze them. This book starts with an introduction to visualization and historical examples of visual representations. At its core, the book presents and discusses a systematic view of the visualization of time-oriented data along three key questions: what is being visualized (data), why something is visualized (user tasks), and how it is presented (visual representation). To support visual exploration, interaction techniques and analytical methods are required that are discussed in separate chapters. A large part of this book is devoted to a structured survey of 101 different visualization techniques as a reference for scientists conducting related research as well as for practitioners seeking information on how their time-oriented data can best be visualized.

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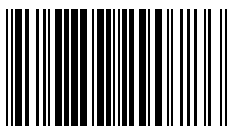
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T: +49 (0)6221 345-4301

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ISBN 978-0-85729-078-6 / BIC: UYZG / SPRINGER NATURE: SCI18067

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