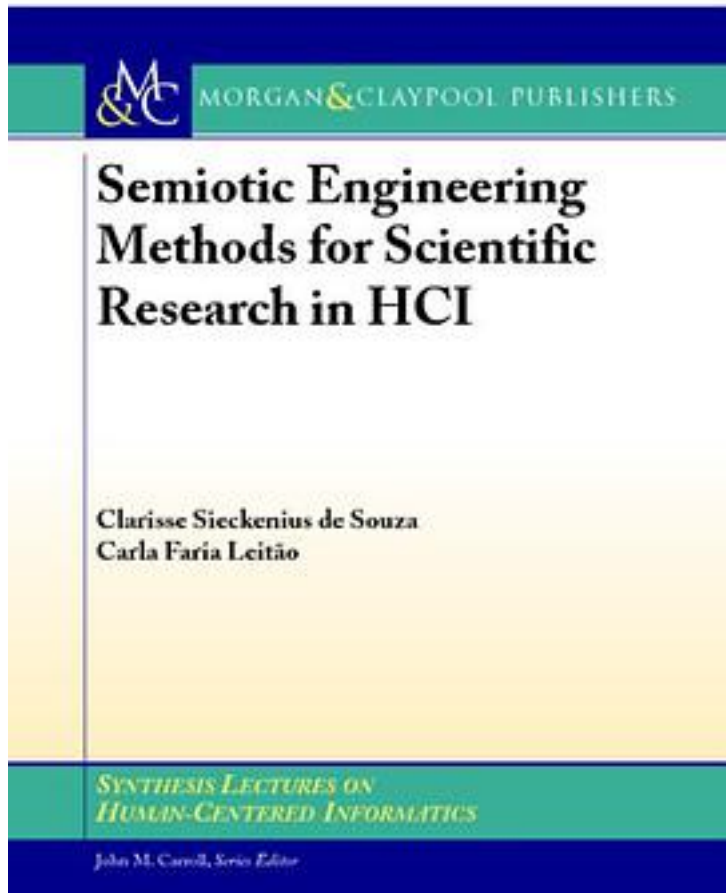# Semiotic Engineering Methods for Scientific Research in HCI

[Semiotic Engineering Methods for Scientific Research in HCI_下载链接1_](#)

著者:De Souza, Clarisse Sieckenius/ Leitao, Carla Faria/ Carroll, John M. (EDT)

出版者:

出版时间:2009-4

装帧:

isbn:9781598299441

Semiotic engineering was originally proposed as a semiotic approach to designing user interface languages. Over the years, with research done at the Department of

Informatics of the Pontifical Catholic University of Rio de Janeiro, it evolved into a semiotic theory of human-computer interaction (HCI). It views HCI as computer-mediated communication between designers and users at interaction time. The system speaks for its designers in various types of conversations specified at design time. These conversations communicate the designers' understanding of who the users are, what they know the users want or need to do, in which preferred ways, and why. The designers' message to users includes even the interactive language in which users will have to communicate back with the system in order to achieve their specific goals. Hence, the process is, in fact, one of communication about communication, or metacommunication. Semiotic engineering has two methods to evaluate the quality of metacommunication in HCI: the semiotic inspection method (SIM) and the communicability evaluation method (CEM). Up to now, they have been mainly used and discussed in technical contexts, focusing on how to detect problems and how to improve the metacommunication of specific systems. In this book, Clarisse de Souza and Carla Leito discuss how SIM and CEM, which are both qualitative methods, can also be used in scientific contexts to generate new knowledge about HCI. The discussion goes into deep considerations about scientific methodology, calling the reader's attention to the essence of qualitative methods in research and the kinds of results they can produce. To illustrate their points, the authors present an extensive case study with a free open-source digital audio editor called Audacity. They show how the results obtained with a triangulation of SIM and CEM point at new research avenues not only for semiotic engineering and HCI but also for other areas of computer science such as software engineering and programming. Table of Contents: Introduction / Essence of Semiotic Engineering / Semiotic Engineering Methods / Case Study with Audacity / Lessons Learned with Semiotic Engineering Methods / The Near Future of Semiotic Engineering

作者介绍:

目录:

Semiotic Engineering Methods for Scientific Research in HCI_下载链接1_

标签

评论

Semiotic Engineering Methods for Scientific Research in HCI_下载链接1_

书评