

<<虚拟现实与增强现实技术及其工业应用>>

图书基本信息

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## 内容概要

Virtual Reality & Augmented Reality in Industry collects the proceedings of the 2nd Sino-German Workshop on the same topic held in Shanghai on April 16-17, 2009. The papers focus on the latest Virtual Reality (VR) / Augmented Reality (AR) technology and its application in industrial processes and presents readers with innovative methods, typical case studies and the latest information on VR/AR basic research results and industrial applications, such as 3D rendering, innovative human-machine design, VR/AR methodology and new tools for assisting in industry, virtual assembly, virtual factory, training and education, etc. The book is intended for computer scientists, IT engineers as well as researchers in Mechanical Engineering.

作者简介

Dr. Dengzhe Ma and Dr. Xiumin Fan are both professors at Shanghai Jiao Tong University, China.

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章节摘录

版权页：插图：The RailCab can show a quite complex behavior, e.g. when a RailCab joins or leaves a convoy. These processes elapse fast and involve numerous variables and data, making it difficult for the engineer to comprehend the course of action and to maintain an overview of the whole procedure. Some prototypes of the RailCab components, e.g. the test bed for RailCab's undercarriage, operate swiftly and their parts mostly move by merely a few millimeters. For the engineer, such tiny motion is hard to perceive. For the development of an advanced mechatronic system like the RailCab, we first apply the specification technique, which is introduced in the previous section, to define a principle solution of the RailCab. Based on the principle solution, we then develop numerous virtual prototypes and test beds for real prototypes, in order to analyze and evaluate the behavior of selected RailCab components and modules. However, the analysis and evaluation of the RailCab and its components can get complex and time-consuming, due to two main reasons.

编辑推荐

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