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| Titolo | Natural Interaction in Medical Training : Tools and Applications / / by Alberto Del Bimbo, Andrea Ferracani, Daniele Pezzatini, Lorenzo Seidenari |
| Pubbl/distr/stampa | Cham : , : Springer International Publishing : , : Imprint : Springer, , 2017 |
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| Descrizione fisica | 1 online resource (VI, 82 p. 31 illus.) |
| Collana | SpringerBriefs in Human-Computer Interaction, , 2520-1670 |
| Disciplina | 005.437 |
| Soggetti | User interfaces (Computer systems)<br>Application software<br>Optical data processing<br>Medical education<br>User Interfaces and Human Computer Interaction<br>Information Systems Applications (incl. Internet)<br>Image Processing and Computer Vision<br>Medical Education |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di bibliografia | Includes bibliographical references at the end of each chapters. |
| Nota di contenuto | Introduction -- Natural Interaction for Natural Interfaces -- Case Studies: BLSD (Basic Life Support and Defibrillation) and Surgical Safety Checklist. |
| Sommario/riassunto | This book covers state of the art techniques for health personnel training using natural interfaces, immersive systems and serious games paradigms. Opening with a comprehensive introduction to the state of immersive visualisation techniques of interaction and simulation used in the industry and training research, the authors then focus on computer vision techniques used to develop realtime training systems effectively, providing recognition of actions and re-identification of persons. Principles of serious gaming applied to immersive natural interfaces are also addressed. The book culminates with the presentation of two prototypes of immersive systems for natural interaction, that the authors have developed and tested for the training |

of medical personnel. These prototypes use the principles and the technologies described in the first part of the book. Natural Interaction in Medical Training offers a unique point of view from medical professionals and computer engineers. .