



# Handbook of Human Factors and Ergonomics in Health Care and Patient Safety

*From CRC Press*

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## **Handbook of Human Factors and Ergonomics in Health Care and Patient Safety** From CRC Press

A complete resource, this handbook presents current knowledge on concepts and methods of human factors and ergonomics, and their applications to help improve quality, safety, efficiency, and effectiveness in patient care. It provides specific information on how to analyze medical errors with the fundamental goal to reduce such errors and the harm that potentially ensues. Editor Pascale Carayon and an impressive group of contributors highlight important issues relevant to healthcare providers and professionals and their employers. They discuss the design of work environments and working conditions to improve satisfaction and well-being, and the reduction of burnout and other ailments often experienced by healthcare providers and professionals. It is a remarkably comprehensive account offering readers invaluable knowledge from individuals who are some of the most respected in the field.

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## **Handbook of Human Factors and Ergonomics in Health Care and Patient Safety** From CRC Press **Bibliography**

- Sales Rank: #3758719 in Books
- Published on: 2006-09-08
- Ingredients: Example Ingredients
- Original language: English
- Number of items: 1
- Dimensions: 1.55" h x 7.36" w x 10.02" l, 3.88 pounds
- Binding: Hardcover
- 1008 pages

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## **Editorial Review**

### **Review**

*"The premise of the book is very timely and appropriate. The epidemic of medical errors has finally been well established and well publicized. Future efforts need to be devoted to improving healthcare, and this handbook covers salient points. There is an impressive array of contributors handling a broad spectrum of topics. The list of topics is extensive without any major deficiencies. This volume should make a substantial contribution to the field."*

- Harvey Murff, M.D., M.P.H.,

*Center for Health*

*Services Research, Vanderbilt University*

*"The key feature is that it is comprehensive. The volume may be thick, but it can be a one-stop shopping for those who would want to find information for human factors related to patient safety and quality. I am not aware of any other sources that come close to this goal."*

- Yan Xiao, Ph.D.,

*Patient Safety Scientist*

*and Human Factors Engineer, University of Maryland*

### **About the Author**

**Pascale Carayonis** Procter & Gamble Bascom Professor in Total Quality in the Department of Industrial and Systems Engineering and the Director of the Center for Quality and Productivity Improvement (CQPI) at the University of Wisconsin/Madison. She received her Engineer diploma from the Ecole Centrale de Paris, France, in 1984 and her Ph.D. in Industrial Engineering from the University of Wisconsin/Madison in 1988. Her research areas include systems engineering, human factors and ergonomics, sociotechnical engineering and occupational health and safety. She is a scientific editor for *Applied Ergonomics* and a member of the editorial board of the *Journal of Patient Safety*. She is the chair of the technical committee on Organizational Design And Management of the International Ergonomics Association (IEA), and is a member of the executive committee of the IEA, in charge of the Ergonomics In Quality Design (EQUID) program and chair of the Science, Technology and Practice committee. Dr. Carayon's current research is funded by the Agency for Healthcare Research and Quality, the National Science Foundation, the Department of Defense, the National Institute on Aging, the National Institute for Occupational Safety and Health and various foundations and businesses. Dr. Carayon leads the Systems Engineering Initiative for Patient Safety (SEIPS) at the University of Wisconsin-Madison.

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#### **Michael Carr:**

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