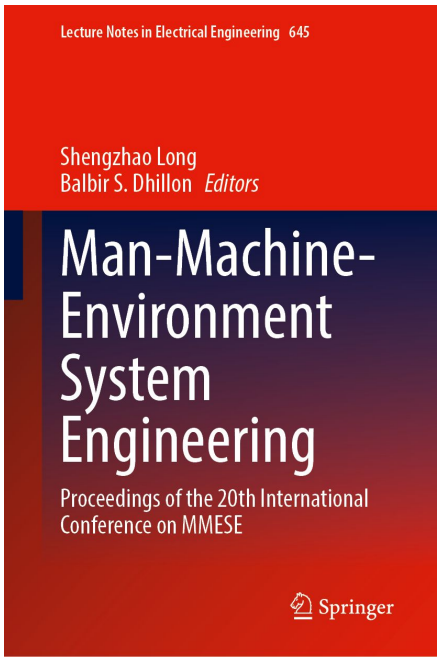

Springer

1st edition

Due 2020-12-25
1st ed. 2020, XVII, 1039 p. 348 illus., 2 illus. in color. In 2 volumes, not available separately.

Printed book
Hardcover

Printed book
Hardcover
ISBN 978-981-15-6977-7
$ 279,99

In production

Discount group
Professional Books (2)

Product category
Proceedings

Series
Lecture Notes in Electrical Engineering

Engineering : Robotics and Automation

Long, Shengzhao, Dhillon, Balbir S. (Eds.)

Man–Machine–Environment System Engineering

Proceedings of the 20th International Conference on MMESE

- Addresses man–machine–environment system engineering (MMESE), a vital human-centered system design principle
- Introduces readers to the top research topics and the latest development trends
- Presents interdisciplinary studies on the concepts and methods of physiology, psychology, system engineering, computer science, and other related disciplines

This bookpresentsselectedpapers introducing readers tothe keyresearch topics and latest developmenttrends in the theory and application of MMESE. The advanced integrated research topic man–machine–environment system engineering (MMESE) was first established in China by Professor Shengzhao Long in 1981, with direct support from one of the greatest modern Chinese scientists, Xuesen Qian. In a letter to Shengzhao Long from October 22nd, 1993, Xuesen Qian wrote: "You have created a very important modern science and technology in China!"MMESE primarily focuses on the relationship between man, machine and environment, studying the optimum combination of man–machine–environment systems, where "man" refers to people in the workplace (e.g.,operators, decision-makers),"machine" is the general name for any object controlled by man (including tools, machinery, computers, systems and technologies), and "environment" describes the specific working conditions under which man and machine interact (e.g.,temperature, noise, vibrationandhazardous gases). The three goals of optimizing such systems are ensuring safety, efficiency and economy. Presenting interdisciplinary studies on the concepts and methods in physiology, psychology, system engineering, computer science, environmental science, management, educationand other related disciplines, this book is a valuable resource for all researchers and professionals whose workinvolves MMESE subjects.

Order online at springer.com/booksellers
Springer Nature Customer Service Center LLC
233 Spring Street
New York, NY 10013
USA
T: +1-800-SPRINGER NATURE
(777-4643) or 212-460-1500
customerservice@springernature.com

ISBN 978-981-15-6977-7 / BIC: TJFM1 / SPRINGER NATURE: SCT19020