

Springer

1st
edition1st ed. 2017, VI, 262 p. 119
illus.**Printed book**

Hardcover

Printed book

Hardcover

ISBN 978-3-319-57785-2

£ 99,99 | CHF 130,00 | 109,99 € |
120,99 € (A) | 117,69 € (D)

Available

Discount group

Science (SC)

Product category

Contributed volume

Other renditions

Softcover

ISBN 978-3-319-86249-1

Education : Science Education

Khine, Myint Swe (Ed.)

Robotics in STEM Education

Redesigning the Learning Experience

- Helps readers develop their understanding about the recent advances in the use of educational robotics in STEM education
- Discusses an effective tool for project-based learning that integrates coding, computational thinking and engineering skills
- Provides a balanced view of theory and practice

This book describes recent approaches in advancing STEM education with the use of robotics, innovative methods in integrating robotics in school subjects, engaging and stimulating students with robotics in classroom-based and out-of-school activities, and new ways of using robotics as an educational tool to provide diverse learning experiences. It addresses issues and challenges in generating enthusiasm among students and revamping curricula to provide application focused and hands-on approaches in learning . The book also provides effective strategies and emerging trends in using robotics, designing learning activities and how robotics impacts the students' interests and achievements in STEM related subjects. The frontiers of education are progressing very rapidly. This volume brought together a collection of projects and ideas which help us keep track of where the frontiers are moving. This book ticks lots of contemporary boxes: STEM, robotics, coding, and computational thinking among them. Most educators interested in the STEM phenomena will find many ideas in this book which challenge, provide evidence and suggest solutions related to both pedagogy and content. Regular reference to 21st Century skills, achieved through active collaborative learning in authentic contexts, ensures the enduring usefulness of this volume. John Williams Professor of Education and Director of the STEM Education Research Group Curtin University, Perth, Australia

Order online at [springer.com/booksellers](https://www.springer.com/booksellers)**Springer Nature Customer Service Center GmbH**

Customer Service

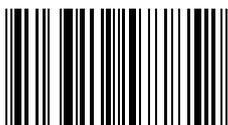
Tiergartenstrasse 15-17

69121 Heidelberg

Germany

T: +49 (0)6221 345-4301

row-booksellers@springernature.com



ISBN 978-3-319-57785-2 / BIC: JNU / SPRINGER NATURE: SCO27000

Prices and other details are subject to change without notice. All errors and omissions excepted. Americas: Tax will be added where applicable. Canadian residents please add PST, QST or GST. Please add \$5.00 for shipping one book and \$ 1.00 for each additional book. Outside the US and Canada add \$ 10.00 for first book, \$5.00 for each additional book. If an order cannot be fulfilled within 90 days, payment will be refunded upon request. Prices are payable in US currency or its equivalent.

Part of **SPRINGER NATURE**