



### Springer books available as

 Printed book

Available from [springer.com/shop](http://springer.com/shop)

 eBook

Available from your library or

► [springer.com/shop](http://springer.com/shop)

 MyCopy

Printed eBook for just

► € | \$ 24.99

► [springer.com/mycopy](http://springer.com/mycopy)



## **Advances in STEM Education**

Series Ed.: Y. Li

*Advances in STEM Education* is a new book series with a focus on cutting-edge research and knowledge development in science, technology, engineering and mathematics (STEM) education from pre-college through continuing education around the world. It is open to all topics in STEM education, both in and outside of classrooms, including innovative approaches and perspectives in promoting and improving STEM education, and the processes of STEM instruction and teacher education. This series values original contributions that view STEM education either in terms of traditionally defined subject-based education or as an educational undertaking involving inter-connected STEM fields. The series is open to new topics identified and proposed by researchers internationally, and also features volumes from invited contributors and editors. It works closely with the *International Journal of STEM Education* and *Journal for STEM Education Research* to publish volumes on topics of interest identified from the journal publications that call for extensive and in-depth scholarly pursuit.

Researchers interested in submitting a book proposal should contact the Series Editor: Yeping Li ([yepingli@tamu.edu](mailto:yepingli@tamu.edu)) or the Publishing Editor: Melissa James ([Melissa.James@springer.com](mailto:Melissa.James@springer.com)) for further information.

### **Series editor**

Yeping Li, Texas A&M University, College Station, Texas, USA

### **International Advisory Board**

Spencer A. Benson, University of Macau, Macau, China

Richard A. Duschl, Pennsylvania State University, USA

Dirk Ifenthaler, University of Mannheim, Germany

Kenneth Ruthven, University of Cambridge, UK

Karan L. Watson, Texas A&M University, USA

### **Recently published:**

Y. Li, R.E. Howe, W.J. Lewis, J.J. Madden (Eds.)

#### **Developing Mathematical Proficiency for Elementary Instruction**

J. Anderson, Y. Li (Eds.)

#### **Integrated Approaches to STEM Education**

An International Perspective

P. Sengupta, M.-C. Shanahan, B. Kim (Eds.)

#### **Critical, Transdisciplinary and Embodied Approaches in STEM Education**

**Submission information at the [series homepage](#) and [springer.com/authors](http://springer.com/authors)**

Order online at [springer.com](http://springer.com) ► or for the Americas call (toll free) 1-800-SPRINGER ► or email us at: [customerservice@springer.com](mailto:customerservice@springer.com). ► For outside the Americas call +49 (0) 6221-345-4301 ► or email us at: [customerservice@springer.com](mailto:customerservice@springer.com).