## Contents

**Part I  Learning Design for Authentic Learning**

- Improving Learners’ Experiences Through Authentic Learning in a Technology-Rich Classroom .................................................. 3  
  Kaushal Kumar Bhagat and Ronghuai Huang

- Analysing Performance in Authentic Digital Scenarios .............. 17  
  David C. Gibson and Dirk Ifenthaler

- Cultivating Creativity by Scaling up Maker Education in K-12 Schools ................................................................. 29  
  Ronghuai Huang and Xiaolin Liu

**Part II  Development and Implementation of Authentic Learning**

- Interactive Electronic Book for Authentic Learning .................. 45  
  Po-Sheng Chiu, Yen-Ning Su, Yueh-Min Huang, Ying-Hung Pu, Pei-Yu Cheng, I-Ching Chao and Yong-Ming Huang

- Use of the Collaboration-Authentic Learning-Technology/Tool Mediation Framework to Address the Theory–Praxis Gap .......... 61  
  Alan Amory

- Analytics in Authentic Learning ........................................... 75  
  Vivekanandan Suresh Kumar, Kinshuk, Colin Pinnell and Geetha Paulmani

- Supporting Reflective Lesson Planning Based on Inquiry Learning Analytics for Facilitating Students’ Problem Solving Competence Development: The Inspiring Science Education Tools .................. 91  
  Panagiotis Zervas and Demetrios G. Sampson

- Case Studies of Augmented Reality Applications for Authentic Learning ................................................................. 115  
  Su Cai
Part III  Optimizing Learning Environment for Authentic Learning

Authentic Learning of Primary School Science in a Seamless Learning Environment: A Meta-Evaluation of the Learning Design .......................... 137
Lung-Hsiang Wong and Chee-Kit Looi

Kaleidoscopic Course: The Concept, Design, and Implementation of the Flipped Classroom .................................................. 171
I-Ling Cheng, Sie Wai Chew and Nian-Shing Chen

Making Without Makerspace, Another Study of Authentic Learning with Augmented Reality Technology ........................................ 189
Chung-Ming Own

Part IV  Next Step for Authentic Learning

Future Trends of Designing Learning in the Global Context ............. 205
J.M. Spector
Authentic Learning Through Advances in Technologies
Chang, T.-W.; Huang, R.; Kinshuk (Eds.)
2018, VI, 216 p. 55 illus., 43 illus. in color., Hardcover