Socio-political Activism and Science & Technology Education

There has been a sustained and growing interest in the multiple ways in which science and technology education might more directly respond to pressing social and environmental agendas. Previous texts have explored the pedagogical implications of ‘issues-based’, ‘decision-based’, ‘knowledge-based’ and ‘context-based’ approaches. Activist Science and Technology Education extends this work and, with empirical examples, frames possibilities and limitations of activism as a generative socio-political referent point for science and technology education theorising. In the first section, authors build an argument for an activist approach and map out the conceptual and pedagogical territory. The chapters in the second section offer developments at the frontier of research and practice, focusing on identified themes of concern. These themes include Consumerism and Globalisation, Technological Advancements, Disruptive Environments, and Biotechnical Developments. The concluding chapter, written by the editors, offers reflections on extant work and opportunities and possibilities for future research and practice.

Features

First volume examining conceptual and empirical issues of activist science and technology education

Explores specific pedagogical themes within compulsory schooling (K-12) and non-formal and informal educational contexts

Gathers together leading authors, all internationally recognised for their work in the area of activist science education

Field of interest

Science Education

Target groups

Research

Product category

Contributed volume}

New Series

SpringerBriefs in Educational Communications and Technology

Series editor: J. M. Spector

Published in collaboration with the AECT (Association for Educational Communications and Technology), Springer Briefs in Educational Communications and Technology focuses on topics of keen current interest in the broad area of educational information science and technology. Each Brief is intended to provide an introduction to a focused area of educational information science and technology, giving an overview of theories, issues, core concepts and/or key literature in a particular field. A brief could also provide: • A timely report of state-of-the-art analytical techniques and instruments in the field of educational information science and technology. • A presentation of core concepts. • An overview of a testing and evaluation method, • A snapshot of a hot or emerging topic or policy change. • An in-depth case study. • A literature review. • A report/review study of a survey, or • An elaborated conceptual framework on model pertinent to educational information science and technology. The intended audience for Educational Communications and Technology is researchers, graduate students and professional practitioners working in the general area of educational information science and technology; this includes but is not limited to academics in colleges of education and information studies, educational researchers, instructional designers, media specialists, teachers, technology coordinators and integrators, and training professionals.

Field of interest

Educational Technology

Target groups

Research

Product category

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Building Virtual Communities of Practice for Distance Educators

As colleges, universities and other learning institutions explore teaching and learning through online environments, online communities of practice may provide solutions to organizational and professional development needs. The purpose of this book is to develop a set of guidelines for creating a virtual community of practice for faculty teaching at a distance that can easily be implemented by faculty development professionals. designing a virtual community of practice can be operationalized using the ADDIE model to guide the process. Based on an instructional systems design process, the ADDIE model emphasizes the five core elements of the instructional systems design process: analyze, design, develop, implement and evaluate; often it serves as a project management tool or to provide a visual aid for organization of relevant tasks.

Features

Brief, evidence-based guide to creating and sustaining virtual communities of practice for distance educators

Facilitates adoption and implementation of virtual education practices

Explicit, expert advice from virtual distance educators and researchers

Contents


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Cyphering Books and the History of School Mathematics Education

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Fields of interest
- Mathematics Education; Sociology of Education

Target groups
- Research

Product category
- Monograph

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Fields of interest
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Target groups
- Research

Product category
- Contributed volume

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- Foreword.- Preface.- Acknowledgement.- 1: Introducing the situational context, macro-socio-
linguistics and key elements of language planning and policy in Malaysia.
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tongue education.
- 7: The revival of a minority language in Malaysia: The dynamics between national linguistic ideology and ethnic linguistic identity.
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Fields of interest
- Educational Policy and Politics; Applied Linguistics; Language Education

Target groups
- Research

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- Monograph

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Series editor: M. B. Paulsen

Volume 29

M. B. Paulsen, University of Iowa, Iowa City, IA, USA (Ed)

Contents

Fields of interest
Higher Education; Educational Policy and Politics; Administration, Organization and Leadership

Target groups
Research

Product category
Contributed volume

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