

4TU.

CENTRE FOR

ENGINEERING EDUCATION

HEErI book Series



New Book Proposal Form

Higher Engineering Education research and Innovation

HEErI is a scientific book series that deals with the past, present, and future of higher engineering education. HEErI is aimed at engineering educators, course and program coordinators, educational management, policy-makers, and educational scientists, who have an interest in innovating engineering education in an evidence-informed way. In each book volume there is attention for the disciplinary perspective, the pedagogical-didactical perspective, and the policy perspective. As engineering education undergoes significant changes and engineering programs worldwide promote evidence-informed education innovations, this book series gives room to present and share the latest insights in all of those: curriculum design, engineering pedagogies and didactics, and engineering education policies.

All books in this series should address the following three key areas:

Engineering curriculum design: e.g. addressing curriculum contents (discipline), complex societal challenges (SDGs), engineers of the future (roles), technological leadership, entrepreneurship, systems thinking, creativity, design, responsibility, inclusiveness, diversity, ICT and data literacy, computational thinking, etc.

Engineering pedagogies and didactics: e.g. technology enhanced learning, activating education, feedback & assessment, learning environment, multi- inter- transdisciplinary learning, constructive alignment, group work, intercultural communication, portfolio development, self-leadership, curriculum agility, reflection in engineering, durable and transferable skills, datafication and AI, etc.

Engineering education policies: e.g. degree programs, education innovation, student cohort, faculty development, careers in education, relation to practice and industry, educational leadership and scholarship, student wellbeing, etc.

ABOUT THE BOOK EDITORS

Name(s):

Academic or professional affiliation:

Email address:

Personal website: (if applicable)

Author biography (including previous book publications if applicable):

ABOUT YOUR BOOK

Title/Subtitle:

Brief summary (40 words max):

Please provide a succinct summary of the work

Full book description (250-500 words):

Please provide a full description of your work. Please take into consideration why a new publication on this topic is needed at this time and how your work is designed to meet the need. What is the purpose of the publication? What new contribution does the publication make to the field? **Please also identify which subthemes of the key areas, as listed on p.1, your book would address.**

Discipline, sub discipline, and keywords:

Please categorize your work based on the most relevant engineering education discipline, e.g. Mechanical engineering, Industrial Design Engineering, Civil Engineering, Computer Sciences, Interdisciplinary, etc.

Please also list **5 Keywords** that best describe your book. *E.g. challenge-based learning, responsible engineering, computational thinking, interdisciplinary education, adaptive expertise, etc*

Added value:

Please describe the added value of the book for engineering education and engineering educators. If possible, please list one or more related or competing titles. How does the proposed publication differ from and go beyond each of them?

Table of contents:

Please attach or include a table of contents, along with an outline of each chapter or contribution of about 250 words per chapter. Please also provide a list of possible/probable contributors along with their affiliations.

(continued)

AUDIENCE

Audience: Please define your audience by highlighting the appropriate boxes below. Please be realistic – no book will be relevant for all audiences.

- Engineering educator (e.g. teacher, lecturer, (assist./assoc./full) professor, course coordinator, program leader, examiner)
- Educational management and/or policy maker
- Educational advisor
- Educational researcher
- Educational support staff
- Engineering disciplinary PhD candidate / post-doc researcher
- Teaching assistant / Student assistant
- (Under)Graduate student
- Other (please specify)

Why will your proposal appeal to your chosen audience(s)?

MANUSCRIPT INFORMATION

Estimated draft delivery date:

Estimated word count:

We promote books of about 60-150pp (25,000-50,000 words) that are hands-on, explicitly relate to education practice, and stimulate all involved in engineering education to learn from it for their own education practice.

Estimated number of tables/figures:

Sample content: Please include or attach any sample chapters, or draft manuscript (if available).

Do you plan on including any additional features in the book? These might include questions and answer boxes, ancillary web materials etc.

REVIEW

The book and role of the series editors

- The book series editors will review all book proposals (this form). Review criteria are:
 - A clear link to engineering education
 - A clear and convincing educational need
 - Intended size of the book 25,000-50,000 words (60-150pp)
 - Aimed at (at least) the target groups of engineering educators (priority), engineering education researchers, engineering education management

- Upon completion the editorial board of the book series reviews the full manuscript on internal coherence, style, and layout.

The chapters within the book

- Chapters of each book need to be peer reviewed (double blind). Please provide the names and email addresses of at least two reviewers per chapter who might be appropriate and willing to provide a detailed and unbiased opinion. One reviewer can be the author of another chapter of the book. At least one reviewer should be independent (i.e. not part of the authors of the book).
- The book series editors will invite chapter reviewers and may or may not follow up on your suggestions.

DISSEMINATION

HEErI, 4TU.CEE and TU Delft OPEN promote an active dissemination of the book series among engineering educators and higher engineering education institutes worldwide. The book editors, HEErI book series editors, 4TU and TU Delft OPEN will use their channels to actively communicate about the book.

In order to get the very best from our books, we encourage close collaboration between our communication teams and our authors to maximize a book's visibility. Please provide any detail you can on the following:

- Speaking engagements – will you be speaking on the topic of your book, or on a related topic at any industry or academic events or training programmes?
- Are you a member or affiliated with a professional or academic organization, whose membership might be interested in your work?
- Do you regularly work or engage with the media on the topic or a related topic of your work?
- Do you have your own communities/followers with whom you regularly engage? These could include social media, a regular blog or a personal/business website through which you can communicate news of the book.
- Do you, or the organization you are affiliated with publish a newsletter or e-newsletter then indicate frequency of mailings and size of mailing list.

Please send your completed book proposal form to:

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