

# SEFI Journal of Engineering Education Advancement



**The practice based journal of the European Society of  
Engineering Education**

**SEFI-JEEA.ORG**

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## About the SEFI Journal of Engineering Education Advancement

The **SEFI Journal of Engineering Education Advancement** offers a route to share ideas, emerging research, experiences and innovations in the field. This peer-reviewed, open-access, online and archived journal is an official journal of SEFI, the European Society for Engineering Education.

The journal aims to support the advancement of engineering education. It welcomes exciting new innovations and ideas in a wide range of areas.

It is an official journal of the European Society for Engineering Education but with a global outlook. The journal recognises that innovation in engineering education is not constrained by borders and while some papers may have a specific European context, we welcome high quality manuscripts on exciting developments internationally.

The journal is primarily focused on learning and teaching of engineering in higher education, though in the widest sense. In addition to papers on higher education practice and approaches, high quality work of interest to the engineering education community are also of interest, such as those addressing engineering practice, lifelong learning, non-traditional entry routes and graduate outcomes.

For more details and to submit your work please visit : **SEFI-JEEA.ORG**

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Aston University, UK  
([g.a.thomson@aston.ac.uk](mailto:g.a.thomson@aston.ac.uk))

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## Editorial

Welcome to the second issue of the SEFI Journal of Engineering Education Advancement and eight more very interesting papers to hopefully enthuse and inspire our readers in their own practice.

Of particular interest to me personally was a paper by a team from the Polytechnique Montreal looking at Oral Assessment techniques an area which is gaining renewed interest in assessing students true understanding and ability in light of the advance of AI tools.

Alongside this we have a couple of enlightening papers from TU Dublin and TU Berlin looking at different ways you might want to adapt to support your students in developing their knowledge, skills and understanding of sustainability issues.

We have some more niche papers including one on the teaching of antenna design from the University of Sheffield, while outreach examples are explained by a group from EPFL Lausanne. Chalmers University looks at some of the practicalities of teaching common modules across a range of different degrees, while the University of New South Wales looks at the concept of ‘Tutorial Laboratories’ to help develop student understanding.

Rounding things off, a team from York University and the University of Ottawa describe a framework they have developed to support lifelong learning.

We are continuing to grow and evolve this journal so please contact us with ideas. If you fancy joining the editorial and review team please let us know

Building this journal is a big collective effort and I would like to thank the contributing authors, our wonderful reviewers, the editors and the support provided by the SEFI Board of Directors and staff in making all this happen. Thank you all!!!

Best regards



Gareth Thomson

Editor in Chief

## SEFI Special Interest Groups

One of the biggest benefits of SEFI membership is the opportunity to get involved in ‘Special Interest Groups’ (SIGs) to share ideas and work on collaborations with colleagues from across the globe on areas of common interest.

Physics

Mathematics

Continuing Engineering Education & Lifelong Learning

Diversity, Equality and Inclusion

Digital Learning

Sustainability

Attractiveness

Engineering Skills

Ethics

Engineering Education Research

Curriculum Development

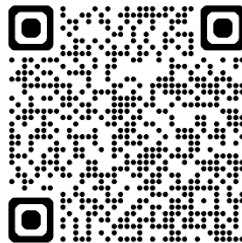
Capacity Building

Quality Assurance and Accreditation

Groups will typically run open workshops at the annual conference and will also likely have a range of ongoing projects from “SEFI @ Work” webinars, to position papers, books and research projects.

Membership of a SIG is very informal and whether you want to lead on a new theme handbook or you simply want to dip in to catch up with the latest ideas it is entirely up to you.

To find out more just go to the SEFI-SIG webpage below.



<https://www.sefi.be/activities/special-interest-groups/>