

## Varietas delectat... Complexity is the new normality

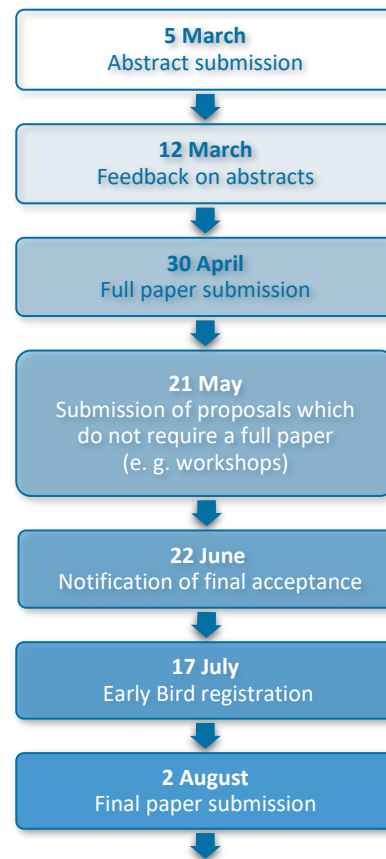
### Industry 4.0 and Diversity in Engineering Education

Creation is not finished! Roles and expectations for universities keep on changing in the 21<sup>st</sup> century whilst the mission of science, engineering and higher education remains substantial. Stakeholders expect *academia* to better promote innovation, reform the knowledge economy, and manage vastly altered student populations.

**Turbulence, interdependency and complexity** characterize the operating environment which is also influenced by socio-cultural-economic, structural and political challenges. **Freedom, openness and creativity determine the digital economy.** Open content and free access to knowledge help keeping collaborative creativity sustainable. **New generation of learning technologies and networks** are ubiquitous and mobile which reshape access to and delivery of learning. **Cutting edge fields** are artificial intelligence, learning self-analytics, adaptive learning, new credentialing, peer learning, user generated content, revolution of assessment.

The themes for the 47<sup>th</sup> annual conference of SEFI are from but not limited to the followings:

- Integrated learning environments for the digital native learners
- Talent management
- Open and online teaching and learning
- Gender, inclusion and ethics
- Impacts of demographics in tertiary education
- Lifelong learning
- New notions of interdisciplinarity in engineering education
- Network Capital
- 4<sup>th</sup> Industrial Revolution
- Diversity in Engineering Education?
- Strong demand for democratic involvement in educational processes
- How to detect and attract talents with new generations of learning technologies and networks?
- New Complexity quest in engineering sciences
- Sustainability reflecting the complexity of modern society
- Fundamentals of engineering education: mathematics and physics



sefi2019@mail.bme.hu