

EDUCON2021 Special Session

Title

Inclusion and Diversity in Engineering Education

Acronym

IDEE'21

Overview

Engineering should attract, promote, foster and retain talents, considering that individuals are different, and they can have characteristics that can require flexibility in the education system in order to guarantee equal opportunities of anyone regardless their gender, race or condition. These characteristics can make the developing of their skills more challenging for the students and for the educational institutions and their professionals.

Some of these characteristics can have a physical reason, such as deafness or blindness, other can be neurological, like autism or attention deficit hyperactivity disorder (ADHD), and other students can be part of groups that are still underrepresented in academia, like women, or they belong to some minorities or ethnical groups.

The IDEE'21 at EDUCON 2021 aims to start a discussion and a reflection about the diversity and inclusion in Engineering Education (EE), identifying the problems and proposing solutions. It also wants to create a bridge from schools to universities, highlighting that many problems that are visible in universities are the results of base problems that appear in early stages of education.

This special track wants to promote new ways to face and deal with the problem of the lack of representativeness in science, technology, engineering, and math (STEM).

Topics

Supporting young female students to enter the Engineering courses

Supporting graduate and undergraduate female students to complete the course

Supporting the development of the careers of women

Students with special needs

Technologies as a tool to integrate students

Fostering underrepresented Groups in the Universities

Peripheral regions, Diversity and Development

Diversity and entrepreneurship

Extension projects from university to foster inclusiveness

Public policies for inclusion

Diversity and job market

Inclusion and diversity for K-12 education

Support for professional transition to Engineering

Support for lifelong learning and training

Learning experiences to promote inclusion and diversity in STEM education

Tools and their use to foster inclusion and diversity

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