



International Conference on Advancements in Engineering Education (iCAEED 2018) 3-6 Dec 2018, Sydney, Australia

CONFERENCE INFORMATION

International Conference on Advancements in Engineering Education (iCAEED 2018) will bring international and national experts in engineering education and research to Sydney to present and share their latest research and practice on engineering education.

The development in engineering and technology is advancing rapidly, which is making the currency and delivery of existing curricula in engineering education challenging. The recent trends and advancements in engineering education will be discussed by many leading educators from all around the world who will gather at iCAEED 2018, Sydney, Australia. The main objectives of this conference are to provide an opportunity for professional interaction amongst the educators, researchers, academics and students, and to showcase the latest developments and future trends in engineering education.

iCAEED 2018 will be held in Sydney, which is the largest city in Australia. The conference is supported by Global Circle for Scientific, Technological and Management Research (GCSTMR) as its 3rd World Congress. GCSTMR endeavors to create a platform for young researchers to exchange ideas and share information with experts in their respective fields. GCSTMR encourages and facilitates trans-national collaborations among its members and associates in research, training and professional activities. Multidisciplinary international conference series run by GCSTMR open vast opportunities for researchers to interact on the global platform and take advantage of knowledge sharing in the digital arena.

iCAEED 2018 will be held at Western Sydney University's Parramatta campus, which is situated 20km from the Sydney CBD and is well connected by rail, road and ferry networks. The traditional landmarks of Sydney including Sydney Harbour, Sydney Opera House and Harbour Bridge are within easy reach of the conference venue as is the Blue Mountains World Heritage National Park.

iCAEED 2018 will feature keynote addresses by world leaders in engineering education. It will cover a wide range of areas within engineering education where leading educators as well as new researchers will be able to exchange their views and ideas. All the abstracts and full papers submitted to iCAEED will be refereed by two independent reviewers and if accepted will be published in the conference proceedings with Australian ISBN Number.

CONFERENCE THEMES

1. Technology in Engineering Education

- a. Current and prospective technologies and tools in engineering education
- b. Issues and opportunities for online delivery of engineering programs - Australian and international perspectives
- c. Library resources for undergraduate and postgraduate education

2. Engineering Education Delivery and Development

- a. Online vs face-to-face

- b. Blended learning
- c. Flipped learning
- d. Student centered learning
- e. Problem-based learning
- f. Resource sharing nationally and internationally
- g. Multi-institutional course delivery across national and international boundaries
- h. Engineering courses focusing on innovation and multi-disciplinary approaches
- i. Student peer learning
- j. Problem solving through innovative solutions

3. Engineering Curriculum Development

- a. Upgrading engineering courses to meet national aspirations and industry demands
- b. Interaction with industry
- c. Course quality and accreditation
- d. Curriculum development
- e. Feedback and reflection
- f. Role of advisory committees
- g. First-year programs
- h. Honours studies
- i. Post-graduate studies
- j. Multidisciplinary engineering subjects
- k. Libraries in engineering education
- l. Science, technology and mathematics in engineering curricula
- m. Communication skill development

4. Ethics and Sustainability in Engineering Education

- a. Engineering ethics
- b. Dealing with plagiarism
- c. Sustainability in engineering design

5. Collaboration with Industry

- a. Intellectual property (IP) issues
- b. Jointly funded research projects
- c. Industry internships

6. Occupational Health and Safety Education

- a. Laboratory safety practices
- b. Workplace safety practices and legislation

7. Engineering Education, Technology and Society

- a. Engineering and public policy
- b. Engineering leadership
- c. Public health

- d. Entrepreneurship
- e. Liberal education
- f. Engineering education and minorities
- g. Technological literacy
- h. Women in engineering
- i. The role of literacy, language, economics, accounting, social studies and other non-engineering subjects in engineering
- j. Role of foreign languages as a medium of instruction.

8. Cross Disciplinary Endeavours

- a. Double degrees involving engineering
- b. Biomedical engineering and lifestyle medicine
- c. Incorporating biological mimicry in engineering design
- d. Applications of data analytics in engineering

9. Other aspects of Engineering Education and Research

- a. Role of professional societies
- b. Introducing engineering standards
- c. Student exchange programs

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Key Dates

Closing date for abstract submission: 29 July 2018

Notification of acceptance/rejection to authors: 19 Aug 2018

Full paper or extended abstract submission due: 16 Sep 2018

Full paper review report to author: 14 Oct 2018

Final paper or extended abstract due: 31 Oct 2018

Early bird registration opens: 19 Aug 2018

Early bird registration closes: 30 Sep 2018

Conference date: 03 to 06 December 2018

Abstract and Full Paper Submission

- Please visit the conference website (<http://www.icaeed.net.au/>) to download the template to prepare your abstract or full paper and follow the link to make the submission via EasyChair.

Opportunity to Publish in Journals

Selected authors will have the opportunity to publish the iCAEED 2018 conference papers in the *International Journal of Engineering, Construction and Computing (IJECC)* (subject to satisfying the criteria of the journal). *IJECC* is an Open Access fully refereed international journal published from Australia.

Registration Fees

Subclass	Early Birds	Birds on Time
Delegates	AUD \$795	AUD \$850
Students	AUD \$450	AUD \$550
Day rate for one day	AUD \$400	AUD \$450
Accompanying family member	AUD \$300	AUD \$350
Conference dinner	AUD \$100	AUD \$100

*International delegates and international students from countries with a per capita GDP of less than US\$ 10,000 (World Bank, 2014) will receive a discount of \$100 on the registration fee.

FURTHER INFORMATION

CONFERENCE WEBSITE: Web: <http://www.icaeed.net.au/>

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