

Association for Research and Promotion of  
Energy Efficiency and Sustainable Development  
SKEEOR - Skopje

Sixth student conference  
Energy Efficiency and  
Sustainable Development



**SCEESD**  
skeeor.feit.ukim.edu.mk

**FIRST CALL FOR PAPERS**



Association for Research and Promotion of Energy  
Efficiency and Sustainable Development



Faculty of Electrical Engineering and Information  
Technologies – Skopje

Invite you to take part in the 6<sup>th</sup> student conference for

## **ENERGY EFFICIENCY AND SUSTAINABLE DEVELOPMENT**

4 - 7 December 2018

Skopje, Republic of Macedonia

## ● **Conference goals and objectives**

The main purpose of this conference is raising the awareness for the need of energy efficiency, renewable energy sources and measures and mechanisms for sustainable development, especially for engineering students – the future problem solvers of the numerous challenges the modern society is facing.

Through the scientific research, the students are encouraged to work on projects concerning energy efficiency and sustainable development. By presenting their projects and participating in the conference discussions they will contribute to the development of novel ideas in these dynamic and promising research areas.

The conference enables students to initiate mutual collaborations among each other, but it also enables them to collaborate with eminent professors and companies with experience and expertise in the field. Apart from the exchange of knowledge and experiences, this is a big opportunity to create lasting contacts that can lead to future cooperation and a professional and personal development.

Furthermore, the conference aims to reach a wider audience and spark its interest in the topics of energy efficiency and sustainable development.

## ● **Scientific fields of the conference**

### **A. RENEWABLE ENERGY SOURCES**

- A1. Direct and indirect usage of renewable energy
- A2. Application of new materials in the renewable energy field
- A3. Design and construction of renewable energy power plants
- A4. Hybrid renewable energy systems for electric power generation
- A5. Power grid integration of renewable energy sources
- A6. Distributed power generation from renewable energy sources
- A7. Renewable energy storage technologies
- A8. Biofuels – production, properties and usage
- A9. New technologies for biomass

### **B. ENERGY EFFICIENCY, AUTOMATION AND MEASUREMENTS**

- B1. Energy efficient electric machines, devices and apparatuses
- B2. Software applications and computer-aided design of electric power systems and renewable energy systems
- B3. Automation of processes and facilities to ensure the utilization of RES

- B4. Measuring the energy efficiency of facilities and processes
- B5. Energy efficient electronic consumers impacts over the power system
- B6. Automation and planning for efficient use of energy
- B7. Energy systems sustainability assessments
- B8. Control and monitoring of sustainable systems

### **C. ELECTRIC VEHICLES AND ENERGY EFFICIENT TRANSPORTATION**

- C1. Electric and hybrid vehicles
- C2. Fuel cell vehicles (FCV)
- C3. Energy efficient transportation
- C4. Managing energy for transportation

### **D. ENERGY EFFICIENCY AND SUSTAINABILITY OF THE ENVIRONMENT, NEW TECHNOLOGIES AND MATERIALS**

- D1. Greenhouse gas emission reduction policies
- D2. Global environmental change and ecosystems management
- D3. Measures, methods and new technologies for reducing the pollution of the environment
- D4. Environmental sustainability
- D5. Landfills, storage and utilization of waste
- D6. New ways of utilizations of nanomaterials
- D7. Smart grids

### **E. ENERGY EFFICIENCY IN FACILITIES, CIVIL ENGINEERING AND ARCHITECTURE**

- E1. Zero energy buildings
- E2. Energy efficient materials in civil engineering and architecture
- E3. Energy efficient buildings control and standardization
- E4. Building structures and environment
- E5. Electrical energy savings in residential and non-residential buildings

## • Participants

- Undergraduate students
- Postgraduate students
- Academic members
- Companies whose work is related to the conference theme

## • Official languages of the conference

- Macedonian
- English

## • Instructions for participants

- Participants that are currently in their undergraduate studies have to write their papers under a mentorship of a professor.
- For participants that are currently in their postgraduate studies, having a professor as a coauthor of their paper is recommended.
- The registration fee for the conference is 10€ per participant.
- The organized accommodation is in a hostel. The price for four nights is 20€.
- To take part in the conference, authors have to apply by sending a completely filled application form including an abstract online <https://goo.gl/forms/nUuNLOmVU9c3ALJ22> until **15.10.2018**. The application form can be found on the official website of the conference <http://skeeor.feit.ukim.edu.mk>.
- Abstracts should be written according to the instructions posted on the official website of the conference <http://skeeor.feit.ukim.edu.mk>
- The deadline for submission of the full paper text is **15.11.2018**.

## • Papers review

Papers will be reviewed by the Scientific Board. If necessary, meetings between conference participants and the Scientific Board will be organized for paper correction.

## • Conference proceedings

The papers that are written according to the official instructions and sent until the deadline, if accepted by the Scientific Board, will be published in the conference proceedings.

## • Location

- Faculty of Electrical Engineering and Information Technologies, Skopje, Republic of Macedonia.

## • Information about the organizers

- **SCEESD** – Student Conference “Energy Efficiency and Sustainable Development”  
[skeeor@feit.ukim.edu.mk](mailto:skeeor@feit.ukim.edu.mk)

- **FEEIT** – Faculty of Electrical Engineering and Information Technologies Rugjer Boshkovik bb, 1000 Skopje, Republic of Macedonia [www.feit.ukim.edu.mk](http://www.feit.ukim.edu.mk)

## • Important dates

**15.10.2018** –Deadline for sending an application

**15.11.2018** – Deadline for submission of the full paper text

**4.12.2018 – 7.12.2018** – Conference