

Greece Section

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Section Vitality

The 2023-2024 Section's elections for the positions of Chair and Vice-Chair have been scheduled from 27th of March 2023 till 10th of April 2023 and the incoming Vice-Chair is the previous Secretary. The elections for the positions of Secretary and Treasurer have been scheduled from 5th of June 2023 till 18th of June 2023. A meeting with the Section Advisory Committee, a committee consisting of the past IEEE Greece chairs, has been organized on 10th May 2023 in order to facilitate the transition and the fruitful knowledge exchange. ExCom meetings have been scheduled on 22nd June 2023 and on 11th July 2023, devoted to the new Officers' informative actions, conference technical co-sponsorship regulations update and decision to organize four thematic open day workshops scheduled in end 2023 first semester 2024, covering all Sections' active research projects funded by European and National grants. The first thematic workshop on current trends and future prospects in research area of Electric Power and Energy has been organized in the National Technical University of Athens on 8th December 2024. It included 15 presentations of the four main Greek Universities (namely the National Technical University of Athens, Aristotle University of Thessaloniki, University of Patras and Democritus University of Thrace) as well as from Industrial and Research Units. This activity is intended to be extended during the first semester of 2024 in respective Workshops on Signal Processing and Communications (to be organized in Aristotle University of Thessaloniki), on Information Technology and Computers, (to be organized in University of Patras) and on Electronics and Control Systems (to be organized in Democritus University of Thrace). These initiatives are expected to enable recording and archiving of current research trends, discussions and cross-fertilization of innovative ideas as well as motivation for retaining and recruiting members with a special focus on senior members and graduate students

Students

12 Greece Section's student branches have scheduled/organized numerous activities fall 2023-beginning 2024 complementing their previous attainments, as follows:

- *University of Western Macedonia - Kastoria STB11281*
 - Open day promoting of existing and new technologies to the students of the Kastoria campus.
 - Organization of (non)technical event in order to expand and share knowledge.
 - Familiarization of Student Branch members with lab equipment in order to assist them in their academic assignments or personal project.
- *International Hellenic University-Serres STB07741*
 - 6G Networks and IoT - Lecture
 - AI Generated Audiovisual Content - Workshop
 - IEEE Day – Lecture
 - IEEE Xtreme - Competition
- *University of West Attica STB08201*
 - learning cyber security – Lecture
 - RAS project game
- *National Technical University of Athens STB08051*
 - Participation in IEEE Xtreme 17.0
 - Organization of NTUA hack two day event on cybersecurity
 - Initiation of Robotalk event concerning Robotics and Automation
 - Financing of drone project of RAS Chapter
- *University of Patras STB50001*
 - Foundation of new Scientific Group (Cybersecurity)
 - Collaboration with a new organization and in hosting GRCPC a new Greek Collegiate Programming Competition
 - Attraction of 26 Student Members and Graduate Members
- *University of the Aegean STB63831*
 - Technical workshop focusing on pedagogical hardware use utilizing robotics and Raspberry Pi
 - Industry experts online lectures on 6G
 - Technical presentation on "IoT Toward Federated Learning in the Industry 4.0 Era: New Paradigms"
- *Macedonia University STB40078950*
 - Collaborative Graphic Design Workshop
 - Members recruiting and creation of a Programming Competitive Team
- *University of Peloponnese-Patras STB07731*
 - Organization of Summer School 3-Day event on AI and Machine learning
 - Creation of Podcast in collaboration with Pulsar Radio University of Peloponnese
 - Development of a Personal Voice Assistant (PVA) in Greek language
- *University of Thessaly-Lamia STB66241*

- Technical meeting with panel discussion
- Special tour and social meeting including fund-raising event
- *University of Ioannina STB11911*
 - Increasing the number of registered teams for IEEEExtreme
 - Reorganization of the respective social media presence
- *Technical University of Crete STB13581*
 - Recruiting campaign through online and in-person workshop activity
 - Reorganization of the respective social media presence on platforms
- *Aristotle University of Thessaloniki STB15121*
 - Promotional presentations on robotics, programming and energy domains
 - Organization of career day with industrial presenters
 - Meeting for member attraction and relations reinforcement

Affinity Groups

The IEEE Greece Section has 5 AGs, specifically, the IEEE National Technical University of Athens HKN AG (Mu Gamma), the IEEE InSIGHT, the IEEE Life Members AG, the Young Professionals AG and the Women-in-Engineering AG. The AGs are partnering with the other IEEE Greece Section OUs and co-organize events

- Women in Robotics - Lecture - co-organization with IEEE IHU RAS Chapter

Chapters

The IEEE Greece Section has 12 technical chapters (Power and Energy Chapter, Communications Chapter, Control Systems Chapter, Signal Processing Chapter, Computer Chapter, Consumer Electronics Chapter, Engineering in Medicine and Biology Chapter, Computational Intelligence Chapter, Electron Devices/Microwave Theory and Techniques/Antennas and Propagation Joint Chapter, Circuits and Systems/Solid-State Circuits Joint Chapter, Vehicular Technology/Aerospace and Electronic Systems Joint Chapter, Industrial Electronics/Industry Applications/Power Electronics Joint Chapter) and more than 20 technical student chapters.

On 14th December 2023, the Power & Energy Chapter organized the 21st Workshop on Power Engineering Dissertations at Aristotle University of Thessaloniki concerning competition of respective final diploma dissertations in this area presented by students attending in all Greek Universities.

On 22nd December 2023, the Hellenic International Power Group organized the 7th Workshop on Power Engineering with international presenters on the following subjects:

Prof. Georgios Kariniotakis (Mines Paris, PSL) “Renewable energy production forecast – state of the art, results of the Smart4RES project and priorities for future research”

Dr. Akilas Stratigakos (Imperial College London) “Data Analysis Techniques for Electric Power Systems and Participation in Electricity Markets”.

Dr. Georgia Pierrou “Charging electric vehicles in electric railway networks: uncertainties and flexibility”

Prof. Dionysios Aliprantis “Electric Roads with Dynamic Wireless Power Transfer”.

Also the Robotics and Automation Chapter held ROS Workshop Series - co-organized with IHU - MSc in Robotics.

Industry

In December 2023 an invited visit of students of National Technical University of Athens has been organized in the laboratory of Tesla Greece, focused on electrical machines design for electric vehicles, hosted at the Innovation Hub of Electric Power Corporation of Greece situated at Paiania near Athens.

Diversity, Equity and Inclusion

Appropriate link is maintained at the Section’s web-site to IEEE DEI statement.

Activities since the last report

Important activities, seminars and workshops are promoted through the Section’s web-site.

Planned activities

As already mentioned in the vitality item, the Section has decided to organize three thematic open day workshops scheduled in the first semester of 2024, covering all active research projects in the domain of the Section funded by European and National grants on the domains of Signal Processing and Communications, on Information Technology and Computers, as well as on Electronics and Control Systems. This activity is expected to render great services both in archiving and diffusing information on current research trends and in motivating member recruiting.

How Region 8 can be of help to your Section, members, and activities

Financial assistance to distinguished Lecturers’ travel and accommodation expenses for presenting “hot” topics to our members.