

IEEE Iran Section Report

November 2021

Table of Contents

Section Vitality	3
Students.....	3
Chapters.....	8
Activities since the last report	10
Planned activities.....	10
How Region 8 can be of help to your Section, members, and activities	10
Pictures.....	11

Section Vitality

IEEE Iran Section Membership Development Committee (MDC) is responsible for recruiting and retaining members. This committee is trying to improve the benefits for the members through MoU and different contacts. The committee also implements member awareness of the value of IEEE membership, financial support for membership, and local benefits for members. The **vision** of this committee is to prevent the decline and increase of the number of members to over 800 people (situation in 2019) after two years (in 2023).

Reasons for reducing membership:

- Membership dues are very high for our members due to local currency devaluation against the other currencies
- Prevention of holding conferences in person due to Covid-19 in the last two years

Executive priorities

- Notices and notifications
- Motivational actions
- Donations
- Payment facility

Activities done by MDC

- Prepare letters to universities to facilitate the payment of grants
- Participate in MGA meetings and webinars and report on them
- IEEE Introduction and Membership Benefits Webinar: Registration / Renewal Training and How to Pay for Membership

Planned Activities

- Hold webinars to express the benefits of membership as well as teach and facilitate the membership process
- Present lectures at the beginning of specialized webinars and encourage students to join
- Provide membership lists for student branches for on-campus activities (email to people who have not specified their university)
- Restrict the issuance of certificates of participation in specialized webinars only for members
- Negotiate with the Conference Committee to provide further discounts on the cost of registering for internal conferences for members
- Contact with the Industry Relations Committee to provide a discount on the cost of some services such as Internet membership fees, etc. to members
- Provide discounts on welfare services-online stores for members

Students

- Currently, we have 58 Student Branches (SB) which some of them are very active. In order to develop this network, we conducted two annual meetings. These will help SB and YP gather together which consequences of improving their connections with each other, new collaborations, discuss new ideas or issues, meeting in person with Iran Section ExCom to discuss challenges and provide them new packages.
- We are planning for the 12th IEEE Iran Section Awards Ceremony which will be held virtually. This meeting is very important due to the gathering of the whole section and beyond. There are some industry sponsors which will support this event through MoU.
- Achieving the position of the top branch, worthy book and selected title in digital content by Tarbiat Modares University (TMU) student branch in the Harekat festival. This festival is one of the important festivals in the country which is held annually.
- Achieving the 37th Place in the World in IEEEExtreme Competition by Khajeh Nasir Toosi University of Technology (KNTU) Student Branch
- Achieving the position of the best counselor in the Harekat festival.
- Achieving the first place in the IEEE PELS Day 2021 competition by Buin Zahra Higher Education Center of Engineering and Technology (BZTE) student branch
- Establishing a benchmark for reviewing student conferences

Planned Activities

- Student Membership Development
- Expanding and developing international activities
- Expansion of domestic and foreign industrial relations
- Expansion of competitions
- Expansion student seminars and workshops
- Expanding activities to startups and working with accelerators
- Scientific and industrial visits and tours
- Cooperation in organizing conferences
- Create a business club
- Scientific trips
- Trying to create CoOp

Affinity Groups**Young Professionals****Mission**

- Inspiring and equipping youth to be proactive and responsible, become more successful professionals, stronger leaders, and more conscientious citizens,
- Provide professional development opportunities for Young Professionals,
- Create the building blocks for lifelong and diverse professional networks: while school ties end at graduation, support from IEEE lasts through your entire career.

Vision

Facilitate successful transition of IEEE student members through young professionals to senior members, as future leaders of the techno-economic ecosystem.

Planned Activities

- Support student members by bridging the transition from young professional to senior membership.
- Provide students and young professionals with career services/advice via talks/seminars/webinars and job fairs/demonstrations.
- Provide students and young professionals with soft skills education via talks/seminars/webinars.
- Provide students and young professionals with technical/professional training via talks/seminars/webinars.
- Enable better networking and engagement between senior and younger members.
- Create a society-wide mentoring community based on volunteering.

Activities done since the last Report

- Infrastructure Asset Management with Power System Application -- with models for predictive maintenance Webinar
- How IEEE PES shaped my professional career & what's in it for you? Webinar
- Climate change and Resiliency Webinar
- Key Insights to Career Management Webinar

Communication Committee**Vision**

Communications Committee strives to improve the identity, brand, and position of the IEEE Iran section at the national and international level through media, personal, and social interactions.

Missions

The Communication Committee pursues the following two major missions:

1. Facilitate, deepen and develop intra-organizational (institutional) communication.
2. Development of communication with the community of stakeholders and audiences outside the association in national and international arenas.

To achieve missions, the Communications Committee designs produces and disseminates printed publications, electronic communications, audio-visual presentations and other communications tools appropriate to the mission.

Planned Activities

- Activate newsletter and website and improve the effectiveness of information for the activities of IEEE Iran Section in both English and Persian languages
- Preparation of reporting instructions from the committees of the IEEE Iran Section
- Preparation of vTools instructions interactively and notification to committees and related sectors in Iran Section
- Pursue the allocation of job advertisements for job seekers and also recruitment for industry owners and companies in the website of IEEE Iran Section in order to make the process of attracting graduates for employment in industrial sectors more effective.
- Defining and allocating a platform for international communications in the Iran Section
- Planning to create a place for registration, management and issuance of automatic certificates of participation in section courses and webinars on the section website.
- Preparation of IEEE Iran Section introduction package to present to different audiences
- Coordinating educational and research activities, competitions, webinars and seminars with useful content for the Industrial Relations Committee
- Propose general policies for defining specialized areas for holding webinars in interaction with committees, chapters and working with student branches to receive ideas and titles for webinars, competitions and seminars
- Preparation of instructions and work process for content production, preparation of standard framework for posters, webinars, etc. and notification to all units in Iran Section
- Planning to create a special resources section for members in the branch website (with the aim of archiving the section webinars and roundtables which is held in Persian)
- Facilitating and developing academic, industrial and business relations in the domestic and international dimension through national and personal relations of the committee members, within the framework of the approved and strategic plan of the Iran Section
- Domestic and international reflection of all activities of IEEE Iran Section among committees, Chapters, domestic and international university complexes, students and graduates
- Effective reflection of holding webinars and seminars with more active participation of chapters and committees and effective notification to university chapters and reflection of relevant news through websites, newsletters, section channels in Telegram and LinkedIn
- Providing a suitable platform for storing and recording information of IEEE Iran Section

Educational Activities Committee (EAC)

- Responsible for managing and conducting lectures, workshops, seminars and webinars (educational events)
- Evaluate and, if necessary, negotiate and advise on requests for events in various fields of electrical and computer engineering
- Proposal to the Board of Directors to issue a license to use the IEEE Iran Section logo

Mission and Vision

Holding or supporting direct and indirect events (courses, workshops, seminars, webinars, lectures, etc.) with the aim of increasing the scientific ability of compatriots to achieve humanitarian goals

Goals

- Maximum use of domestic and foreign capabilities to increase the knowledge of individuals, especially the young generation of the country for humanitarian purposes
- Appreciate the teaching and learning activities of the young generation of the country to leave the future of the country in their hands

- Efforts to strengthen ethics in education and research
- Guiding young people to work in scientific fields

Using the cooperation of faculty members and experts in the fields of:

- Supervising event organizers
- Forming a group and holding cryptocurrency webinars at three levels: basic, intermediate and advanced
- Forming a group and holding soft skills courses applicable in absentia
- Forming a group and holding ethics training courses in science and technology
- Forming a group and presenting instructions and solutions for conducting laboratories online (virtual)
- Forming groups and holding webinars of smart networks,
- Forming a group and holding artificial intelligence webinars
- Forming a group and holding entrepreneurial webinars
- Writing paper and paper mining in databases and citations
- Holding appropriate workshops in cooperation with other reputable scientific associations
- Holding workshops in cooperation with women affairs of Iran Telecommunication Research Center
- Holding appropriate events for high schools, industry and universities with the cooperation of experts and student branches
- Holding training workshops in the post-Corona period, cooperating with other committees and groups of the department, especially the committee of professional activities
- Review and confirm the proposed events for using the logo of the Iran Section
- Evaluation and issuance of digital certificates in Iran Section

Activities done by EAC

- Disruptive Change in University Educational methods After Covid 19 Webinar
- Discover the Golden Point Webinar
- Lecture by Eng. Hassan Etaat, Career Path Design for young graduates
- Lecture by Dr. Mehdi Shami Zanjani on digital transformation
- Lecture by Dr. Karim Mohammadpour Aghdam, Industry Relations Panel
- Near Field Antenna Pattern Measurement Webinar
- Swarm Robotics in Oil Spill Monitoring and Cleanup Webinar
- Introduction to IEEE Women in Engineering
- Haptic Technology in Intraocular Surgeries Webinar
- The first course of workshops for managers and activists in the field of Internet of Things with LoRaWAN approach,
- Step by step principles of starting and developing a startup,
- Developing a business plan and model,
- Digital marketing,
- Legal issues of starting a business,
- Interpersonal Influence in Computer-Mediated Interactions.
- Speech by Maciej Borówka, Chair of the IEEE District 8 Student Activities Committee
- Speech by Prasanth Mohan, Student Awards Officer, IEEE MGA Student Activities Committee

Professional Activities Committee (PAC)

- Professional Activities at IEEE Iran Section encompass meetings, conferences, competitions, networks, publications, and programs focused on the non-technical aspects of technology careers.
- These activities are designed to help members outreach to the public, develop an awareness of professional issues, and develop their skills in such areas as job searching, communications, and project management

Mission & Vision

The missions of IEEE Iran Section's Professional Activities Committee are:

- Develop programs within the scope of professional activities to provide additional value for members of IEEE in the Section
- Recruit volunteers to ensure the continuity of professional activities in the Section
- Promote professional interests of the Iran section members on their professional needs

Objectives

The Professional Activities Committee shall:

- Encourage and support the sections in ensuring the professional growth of the members at all levels in Region 8

- Work with others in the Region to encourage, develop, and nurture programs that stimulate interest in science, technology, engineering, and math of pre-college students and encourage their later participation in the IEEE
- Submit the Professional Development Financial Report as required
- Coordinate the work to optimize the effectiveness of the professional activity interface with Region, state and local government entities
- Encourage student branches to hold events to promote professional awareness.

Responsibilities

As part of its role, Professional Activities Sub-Committee aims at reaching out to members and achieving the aforementioned goals by taking the following actions.

- Organizing workshops
- Funding attendance of speaker(s) in events organized by another IEEE Section
- Representing IEEE and its members at national/international levels
- Facilitating the availability of PA-related resources through webinars, websites, etc.
- Publicizing PA products and services through written material
- Attending PA-related IEEE Activities
- Leveraging production of PA-related materials (offline webinars, etc.)

Activities done PAC

- Appointment of Vice-Chair and Secretary of the Committee
- Determining the structure and formulating the activities of the professional committee in the meeting for a period of 2 years
- 2-year plan correction and notification
- Program of workshops and webinars by professors and specialists abroad
- Program of workshops and webinars by professors and domestic experts
- Coordination of certification
- Website updates and maintenance
- Schedule and manner of digital advertising of committee performance
- Program and method of live broadcast of lectures and webinars
- Launching Parto magazine and preparing the form, template and layout of the magazine
- Holding competitions to solve industry challenges
- The Paradigm of Ensemble and Deep Neural Networks for Big Data and Analytics Webinar
- Disruptive Change in University Educational methods After Covid 19

Standards Committee

Missions

- Improve the quality and application of reliable products through the developments of standards
- Develop new standards for use in national industries
- Promote the recognition of the role of standards in the academic society.

Vision

- Establishment of agreements and MOUs between related organizations such as national standard organizations
- IEEE Iran section and the academic community
- Holding workshops, conferences and seminar

Objectives

- Training and promotion of using IEEE standards in industries in cooperation with the Industry Relations Committee
- Cooperating with relevant technical ministries to prepare relevant national standards
- Cooperating with the country's standards organization to cooperate in preparing relevant national standards
- Proposing international standards to the IEEE Standards Development Committee
- Helping to introduce competent people from Iran to participate in the development of IEEE standards at the international level

- **Planned Activities** Identify, promote and train at least three IEEE standards related to the computer chapter in Iranian industries
- Identify, promote and train at least three IEEE standards related to the power chapter in Iranian industries
- Identify, promote and train at least three IEEE standards related to the control chapter in Iranian industries
- Identify, promote and train at least three IEEE standards related to the electronics chapter in Iranian industries
- Identify, promote and train at least three IEEE standards related to Telecommunications and Information Theory in Iranian Industries
- Identification, promotion and training of at least three IEEE standards related to photonics and electromagnetism in Iranian industries
- Collaborate with the National Standards Organization to develop, translate and edit standards in IEEE-related areas
- Introducing the IEEE capabilities of the Iranian sector to cooperate in the development of international standards by IEEE SA
- Collaborate with relevant ministries to prepare national requirements and standards

Chapters

We have 8 active Technical Chapters as follows:

- 1) Communications and Information Theory Joint Chapter
- 2) Control Systems Joint Chapter
- 3) Electromagnetics and Photonics Joint Chapter
- 4) Power Joint Chapter
- 5) Electronics Joint Chapter
- 6) Computer Society
- 7) Computer Society
- 8) Electronics Chapter

Activities done by Technical Chapters

- Round Table on Sustainable Electricity Supply, peak load 1401 and after (Virtually)
- The second meeting of the Round Table on Sustainable Electricity Supply, peak load 1401 and after (Virtually)
- Cybersecurity and Resilience Enhancement of Smart Grids Webinar
- Fault Location in Power Network using Time Reversal Theory Webinar

Industrial Relations Committee (IRC)

Our active industry partnerships are well-known companies/trade unions in the country which have been mentioned already in our reports however they are listed as follows:

- Iranian Telecommunication Industries Syndicate
- Paya Communication Industries
- Mobinnet Telecommunication Company
- Nian Electronic Co.
- Faraz Co.
- R & D Development Company (Teta)
- Azmoon Keyfiat Co.
- Karen Antennas Technology Co.

Also, we have active industry partnerships with the top universities of the country:

- University of Tehran
- K. N. Toosi University of Technology
- Amirkabir University of Technology (this partnership is for CoOp program)

We have 15 internships this year, some of them are now active as full-time employees in top companies in the country.

We have 4 signed partnerships this year as follows:

- Avid Net Technology
- <https://psp.ir/power>
- Faravid Co.
- Monenco Iran Consulting Engineers

Planned Activities

- Monthly meetings with committee members
- Industry-related events (webinar, workshop, course, panel, etc.)
- Joint Internship Program
- Holding joint meetings with committees and chapters of the Iranian section:
The presence of committee members in the chapters and committees of the Iranian section
- Participation in industrial events: Holding courses
in telecom and other events
- Collaborate with the AFI Region 8 Committee and attend their meetings
- Inviting representatives of Iranian sector groups to join the Industrial Relations Committee
- Memorandum of Understanding with other industrial complexes
- Updating the industry relations page on the Iran section site
- Mentoring program and career path
- Financial support and sponsorship for industry-related issues: as already in the committee's program,
support for the events will continue for the next two years.
- Compilation of white papers
- Review of KPIs and activities of other countries' industry relations committee
- Bilingual IEEE Iran Section Jobsite and advertising it
- Creating a directory of up-to-date topics for holding up-to-date webinars related to the industry

Activities done by IEEE Iran Section IRC since the last report

- Liaise with other committees and affiliated groups to increase interactions
- Holding international communication meetings in the field of industry in Region 8
- Encourage and promote industrial people and active organizations to cooperate voluntarily with the IEEE Iran Section
- Sending committee report to AFI
- Establishing a connection between the Iran section and the Payvast monthly (the most authoritative monthly in the field of communication) and publishing a history of the IEEE Iran Section in one of its chapters
- Supporting the booths of the IEEE Iran Section in conferences and exhibitions.
- Attending the AFI Region 8 Committee and their meetings
- Introducing White paper in the second AFI meeting IEEE Iran Section Vice-Chair
- Committee report in the third AFI meeting
- Translating of white paper on methods for developing TRL-MRL in the telecommunications industry entitled "Investment and Entrepreneurship Opportunities in the Communications and Information Technology Industry" to English

- Support for CoOp project of Amirkabir University of Technology
- Discover the Golden Point Webinar
- Leadership in the Digital Age Webinar

IRC KPIs

- MoUs with other industries and partners
- Meetings with Affinity Groups, Chapters, and Student Branches
- Updating internships and mentorships statics in websites
- Joining industry and entrepreneurship events
- Inviting representatives of other groups and chapters to join IRC

Activities since the last report

IEEE Iran Section has done the following main activities:

- Development of activities of YPs, WiE, and the other Affinity Groups
- Participate in the development of national standards
- Communication of the student sector of the Industrial Relations Committee with the R8 committees such as AFI
- Receive performance reports of committees
- Call for IEEE Iran Section Awards
- Evaluate nominees of section awards
- Funding awards
- Compilation of regulations for holding webinars and workshops
- Review conferences regulations
- Planning for the annual ceremony
- Approve and support the Big Data Challenge Contest
- Support for conferences and workshops
- Financial support for the membership of the students

Planned activities

Our future planned activities are as follows:

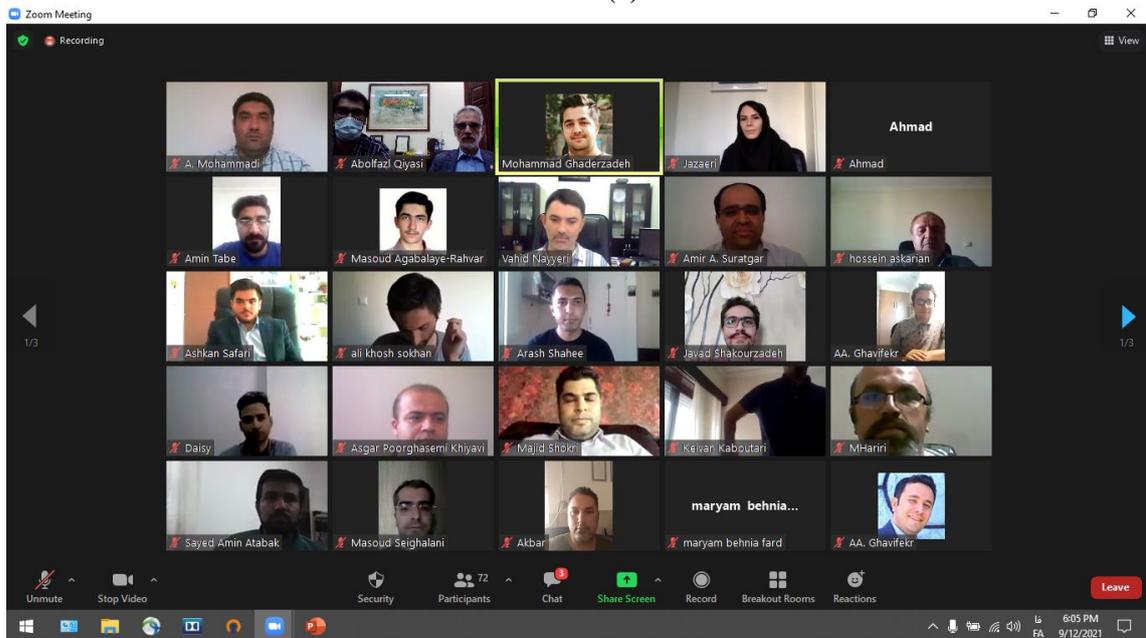
- Promotion of activities in international cooperation (participation in R8 committees)
- Invite prominent international researchers to introduce their program and activities in person or online
- Holding regional and international events in Iran
- Efforts to develop and promote science and educational centers in the country
- Promote and develop industry relations to increase the growth of technology at the national level
- Cooperation with scientific research institutions and scientific associations
- Develop and promote the level of student activities
- Increasing the number of student branches in the country to expand the student network
- Introducing and promoting national awards in the field of education, research, student branches, and volunteer activities
- Increase IEEE membership
- Preparation of Iran Section strategic plan, action plan, and roadmap
- Development of Technical Chapters' activities to expand the network of faculty and student members in the country

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

As we mentioned in our previous report, we are facing the following issues:

- Our members especially students cannot effort it which causes a decrease in membership statistics. R8 can help us to convince headquarters to set the membership fee based on our local currency.
- Although most programs like Member-Get-a-Member (MGM), Future 50, etc. are not available for our members so they cannot take benefit from such a program which causes loss of motivation in the members. We believe that if some programs become available for our members it will motivate our students and members to interact more with IEEE and its benefits

(a)



(b)

Picture 1. IEEE Introduction and Membership Benefits Webinar




IEEE PES Region 8, IEEE Iran Section, and IEEE Young Professionals

Infrastructure Asset Management with Power System Applications – with models for predictive maintenance



Professor Lina Bertling Tjernberg

Professor in Power Grid Technology at KTH the Royal Institute of Technology,
Director of the Energy platform and the Coordinator of Life long learning at the School of Electrical Engineering and Computer Science.

Abstract

The value of making smart decisions gives a reason for adopting Asset Management (AM). AM is defined as a coordinated activity of an organization to realize value from assets. The first step of AM is always the motivation. This lecture introduces the concepts of AM and maintenance as a strategic tool for AM and gives a brief presentation of the systematic method for performing maintenance that are the reliability centered maintenance (RCM) and the quantitative method of reliability centered asset management (RCAM). The presentation concludes with examples from own research including predictive maintenance models using condition monitoring data and machine learning techniques. The results shows that the proposed approach can detect potential wind turbine failures at an early stage.

biography

Dr Bertling's research and teaching are focused on developments of the future sustainable electric power grid with special interest in reliability analysis, predictive maintenance and asset management. She is actively involved as advisor and expert in various professional organizations. Current appointments include: the Program Committee of the World Energy Council, the National Strategic Council for Wind Power, the ISGAN Academy of Smart Grid, the National Committee of CIRED, and she is part of the expert pool for the EU commission.

Dr. Bertling Tjernberg is a Senior Member of IEEE and is a Distinguished Lecturer of IEEE PES. She has served in the Governing Board of IEEE PES (2012-2016) and been the Chair of the Swedish PE/PEL Chapter (2009-2019). She has been an Editor for the IEEE Transactions on Smart Grid Technologies and chaired the first IEEE ISGT Europe Conference.

She is a Member of the Program Committee of the World Energy Council and a National expert in the ISGAN Academy of Smart Grid and National Committee of CIRED. She is a candidate for the IEEE PES President Elect. Information about the election and all candidates here is available here: <https://eballot4.votenet.com/IEEE>



scan me

پنجشنبه ۱۸ شهریور ۱۴۰۰، ساعت ۱۷:۰۰
Thursday Sep. 9, 2021,
17:00 IRDT (UTC +4:30, CEST +2:30)

Register

b2n.ir/IEEEIRANWebinar

Picture 2. Infrastructure Asset Management with Power System Application -- with models for predictive maintenance




IEEE PES REGION 8, IEEE Iran Section, and IEEE Young Professional

**Prof.
Edvina Uzunovic**

Assistant Professor, ECE Department at Worcester Polytechnic Institute,
More than 20 years of experience in the power systems industry and academia,
Serving as a technical officer, senior quantitative analyst, and senior R&TD engineer in several leading power industry organizations.

HOW IEEE PES SHAPED MY PROFESSIONAL CAREER & WHAT'S IN IT FOR YOU?

Abstract

Dr. Edvina Uzunovic will talk about IEEE Power & Energy Society (PES) history and the current PES organizational structure. It is important to know how PES operates, the important committees and how it is structured, such that one can find an interest/benefit for herself/himself. In addition, Edvina will talk about the PES internet sites, PES University and PES Resource Center, and material that one can find there.

Biography

Dr. Edvina Uzunovic has over 20 years of experience in the power systems industry and academia. She was a vital contributor to the success of several leading power industry organizations, ranging from utilities to manufacturers. She fulfilled different roles as a Technical Officer, Senior Quantitative Analyst and Senior R&TD Engineer. In 2012, Edvina transitioned from industry to academia and is currently a Professor in the ECE department at Worcester Polytechnic Institute. Edvina has a B.Sc. from the University of Sarajevo, Bosnia and Herzegovina, M.Sc. and doctorate degree in electrical and computer engineering from the University of Waterloo, Ontario, Canada. Edvina has received several awards including first place at the IEEE PES Student Poster Contest in 1999; the EPRI Awards for 2002 Innovators and Technology Award for the contributions to the FACTS technology; and US National Committee of CIGRE Recognition Awards for noteworthy 2002 and 2006 CIGRE Technical papers. Currently Edvina is volunteering with IEEE Power & Energy Society, actively participating in several PES Committees. She was a PES Vice President for Education in the period of 2016 to 2020. In that period, she has organized and started from scratch a committee for Continuing Education, now currently known as IEEE PES University.

REGISTER:
b2n.ir/IEEEWEBINARIRAN



Tuesday
September 14th 2021
17:00 IRDT (UTC + 4:30)

سه شنبه
۲۳ شهریور ۱۴۰۰
ساعت ۱۷:۰۰

Picture 3. How IEEE PES shaped my professional career & what's in it for you? Webinar

IEEE PES REGION 8, IEEE Iran Section, and IEEE Young Professional

Climate Change and Resiliency

Abstract:
The electric grid is the key enabler of all critical sectors that billions of people across the world depend on, and a driver of economic development. The ever-evolving impacts of climate change and weather events that are becoming more frequent and severe are threatening the ability of the electric sector to deliver these critical functions. The severe impacts of climate change are already being observed across United States. As such, record low temperatures in Texas in the winter of 2021 have resulted in rolling outages, leaving homes amid freezing conditions. The evolving climate change puts great emphasis on developing resiliency planning frameworks to not only mitigate but also adapt to the impacts of severe events on the functions of electric grid. Increasing frequency of events make it inevitable for resiliency planning and solutions to become a part of integrated planning functions in the electricity sector and investment prioritization frameworks including generation, transmission, and distribution. In this presentation, Dr. BahramiRad is going to discuss Resiliency planning of electric power system, not only the climate change and its impacts are evolving, but also the grid is evolving toward a sustainable and renewable future with emerging solutions including Microgrids and distributed energy resources.

Bio:
Shaghayegh BahramiRad is the Vice President of Climate and Resilience at Quanta Technology. She is responsible for assisting cities and utilities with climate change risk assessments for their assets, operations, and services and for developing mitigation strategies and investment strategies for adapting to climate change. Dr. BahramiRad has held several positions in the Energy Sector, including Vice President of Engineering and Smart Grid at ComEd: the electric utility in Illinois. In these roles, she has overseen and/or executed "grid of the future" visions, technical roadmaps, analytical frameworks, and investment strategies of distribution system and communication network; Fiber. She has also been responsible for system reliability, DER integration, grid strategy and analytics, standards, maintenance inspection, emerging technologies, STEM programming, and reimagining the power grid to mitigate and adapt to climate change. She has also developed talent strategies, industry engagement plans, and advocacy programs to support business objectives. She has been the expert witness and testified on several state and federal regulatory proceedings around microgrids, energy storage, investment strategies, and Distributed generation interconnection; 1547. Dr. BahramiRad is an editorial board member of the Electricity Journal, US CIGRE Executive member, an adjunct professor at the Illinois Institute of Technology, and the IEEE/PES Vice President of New Initiatives and Outreach, overseeing the organization's engagement with policymakers globally around technical issues, investment strategies, emerging technologies, and developing plans for the next generation of frameworks including smart cities, and clean energy and running the philanthropy activities of IEEE/PES; Smart Village. She holds several US patents and is the contributor to the United Nations SG7, Affordable and Clean Energy.

Shaghayegh BahramiRad

Register

Sunday
September 19th 2021
17:00 IRDT (UTC +4:30)

یکشنبه
۲۸ شهریور ۱۴۰۰
ساعت ۱۷:۰۰

b2n.ir/IranIEEEwebinar

Picture 4. Climate change and Resiliency Webinar

Key Insights to Career Management

This talk is designed to discuss managing your career. There are 12 important things to keep in mind when living and managing your career to achieve your goals. These will be explained and explored with examples and photographs based on my 47 years as an engineer, manager and executive managing people's careers, and 50 years as an IEEE member (IEEE Life Fellow). Your career is your career, and understanding your priorities (which can change) and your company's objectives can help you have a rewarding and fulfilling career.






John D. McDonald, P.E.

Biography

John D. McDonald, P.E., is Smart Grid Business Development Leader for GE's Grid Solutions utility business. John has 47 years of experience in the electric utility transmission and distribution industry. John received his B.S.E.E. and M.S.E.E. (Power Engineering) degrees from Purdue University, and an M.B.A. (Finance) degree from the University of California-Berkeley. John is a Life Fellow of IEEE (member for 50 years), and was awarded the IEEE Millennium Medal, the IEEE Power & Energy Society (PES) Excellence in Power Distribution Engineering Award, the IEEE PES Substations Committee Distinguished Service Award, the IEEE PES Meritorious Service Award, the 2016 CIGRE Distinguished Member Award, the 2016 CIGRE USNC Attwood Associate Award, and the 2021 CIGRE Honorary Member Award. John is Past President of the IEEE PES, the VP for Technical Activities for the US National Committee (USNC) of CIGRE, the Past Chair of the IEEE PES Substations Committee, and the IEEE Division VII Past Director. John was on the Board of Governors of the IEEE-SA (Standards Association), is an IEEE Foundation Director, and is a Founding Board Member and Treasurer of the Smart Energy Consumer Collaborative (SECC). John received the 2009 Outstanding Electrical and Computer Engineer Award from Purdue University. John teaches a Smart Grid course at the Georgia Institute of Technology, a Smart Grid course for GE, and Smart Grid courses for various IEEE PES local chapters as an IEEE PES Distinguished Lecturer (since 1999). John has published one hundred fifty papers and articles, has co-authored five books and has one US patent.



scan me

پنجشنبه ۱ مهر ۱۴۰۰، ساعت ۱۴:۳۰ به وقت ایران
thursday, september 23rd, 2021 at 7: 00 am EDT

Register b2n.ir/IEEEIRANYWEBINAR

(a)



(b)

Picture 5. Key Insights to Career Management Webinar



کمیته‌های فعالیت‌های آموزشی و حرفه‌ای بخش ایران برگزار می‌کنند:

تحولات در آموزش‌های دانشگاهی پس از کرونا

دکتر سید علی اکبر صفوی

استاد دانشکده مهندسی برق و کامپیوتر
دانشگاه شیراز
رئیس انجمن یادگیری الکترونیکی ایران
مدیر کارگروه تخصصی آموزش‌های الکترونیکی
وزارت علوم، تحقیقات و فناوری
drsafavi.ir

در این وبینار ضمن مروری بر شرایط تحمیل شده بر آموزش‌های دانشگاهی ناشی از ظهور پاندمی کرونا و بیان برخی چالش‌های حاصله، ابتدا مروری کوتاه بر آینده تحولات فناورانه و متناسب با آن تحولات مرتبط با فضای آموزش‌های دانشگاهی صورت می‌پذیرد. در ادامه ضمن بیان مفاهیم اولیه یادگیری الکترونیکی، به تحلیل عملکرد دانشگاه‌ها در طول این دوره پرداخته می‌شود و برخی چالش‌های موجود مورد تاکید بیشتر قرار می‌گیرد. بطور خاص این عملکرد و راهکارها برای رشته‌های فنی و مهندسی مورد بحث دقیق‌تر واقع خواهد شد. در ادامه به رویکردهای نظام‌های آموزش عالی جهان پس از کرونا پرداخته می‌شود و در آخر با پیشنهاداتی برای فضاهای دانشگاهی ایران و مرتبط با استادان، مدیران، کارکنان و دانشجویان جمع بندی صورت می‌گیرد. در تمام بحث‌ها نمونه‌های عملیاتی و تجربه شده نیز مطرح می‌گردد.

شرکت در وبینار برای عموم استادان، مدیران، متخصصین، و دانشجویان آزاد است.

شنبه ۲۷ شهریور ۱۴۰۰ ساعت ۱۸

لینک ثبت نام: www.ieee.org.ir/edu-webinar

Picture 6. Disruptive Change in University Educational methods After Covid 19

In collaboration with
the Educational and Professional Activities Committees

IEEE
IRAN SECTION

23 Tir 1400
14 July 2021 13:00 IRST

The paradigm of Ensemble
and Deep Neural Networks for
Big Data Analytics

- Introduce the **paradigm** of the ensemble and some relevant strategies for their combining function
- Explore how ensembles of **Deep Learning** and evolutionary algorithms can be exploited

Speaker: Gianluigi Folino

He holds a Ph.D. in Physics, Mathematics and Computer Science and since 2001, he works as a senior researcher at ICAR-CNR.

Link: https://www.ieee.org.ir/dnn_webinar

Registration ↓



Picture 7. The Paradigm of Ensemble and Deep Neural Networks for Big Data and Analytics Webinar



Cybersecurity and Resilience Enhancement of Smart Grids



Dr. Amir Abiri Jahromi

School of Electronic and Electrical Engineering University of Leeds

Biography

Currently a Lecturer at the University of Leeds, Amir Abiri Jahromi received his Ph.D. degree in Electrical and Computer Engineering from McGill University, Montreal, Quebec, Canada in 2016. He was a Postdoctoral Fellow at the University of Toronto, Ontario, Canada from January 2018 to December 2019 and a Research Associate at the University of Toronto in 2020 collaborating with Hydro Quebec Research Institute (IREQ). His research interests are in the fields of power system modelling, cyber-physical security, reliability, economics and optimization of power systems.

Abstract

Electric power systems are at the verge of significant technology transformation moving toward a smarter operating environment in which system components are enabled to engage in optimal power system operation and planning. This is happening while the uncertainties in power systems are rapidly increasing due to the massive integration of renewable energy resources, electrification of road transportation, and continuously aging power system legacy assets. Concurrently, the cyber vulnerability of power systems is on the rise by the increased reliance on distributed control and information technology. These rapid shifts in the electric power industry should be addressed properly. Otherwise, power system economics and reliability will be challenged by disruptive and costly electricity interruptions. In this talk, we investigate the accelerated pace of digital transformation in electric power substations such as the emergence of interoperable communication protocols like IEC 61850, deployment of smart grid technologies, adoption of Internet of Things (IoT) devices and cloud services. Despite the unquestionable benefits of this transformation in reducing costs, improving reliability, automating and streamlining protection, control and asset management, it introduces complex cybersecurity concerns that need to be appropriately addressed. Co-simulation platforms are then introduced as a cost-effective solution for studying the vulnerabilities of smart grids to cyberattacks. The importance of data analytics and artificial intelligence for addressing the cyber vulnerability of digital substations is further highlighted.

 05/29/2021

 14:00 PM(Iran)

 Register: <https://forms.gle/4MJqpL2Zqdzzk75A6>

 Login: <https://vc.sharif.edu/ch/ee-webinar1>

Picture 8. Cybersecurity and Resilience Enhancement of Smart Grids Webinar



Fault Location in Power Network using Time Reversal Theory



Dr. Reza Razzaghi

Department of Electrical and Computer Systems Engineering Monash University

Abstract

The development of modern and future power systems is associated with the definition of new approaches for their simulation, control, and protection. To give an example, the increasing connection of massive renewable energy conversion systems is justifying the integration of DC infrastructures (eventually, multi-terminal HVDC) in the current AC power grids. Furthermore, the existing passive distribution networks are evolving by integration of decentralized and intermittent generation units, which results in Active Distribution Networks (ADNs). Therefore, complex topologies are emerging requiring adequate simulation tools capable to reproduce, possibly in real-time, their dynamic behavior. In this context, future operation/protection practices of power networks might rely on the availability of chip-scale real-time simulators (RTS) that will enable the implementation of efficient protection/fault location processes that, in principle, should be capable to comply with the restrictive constraints associated with these complex systems.

Within this context, this seminar presents the integration of new concepts of the fault location in AC/DC systems that can be deployed in chip-scale real-time simulation hardware represented by Field Programmable Gate Arrays (FPGAs).

First, an original fault location method based on the Electromagnetic Time Reversal (EMTR) theory will be presented. It will be shown that the proposed method is suitably applicable to different topologies including MTDCs and ADNs.

Next, a new automated FPGA-based solver for RTS will be presented. The developed FPGA-RTS uses an automated procedure to couple the simulation platform with an offline simulation environment. Thanks to the use of particular parallel computational algorithms, it can accurately simulate, in real-time, Electromagnetic Transient (EMT) phenomena taking place in power converters and travelling wave propagation along multi-conductor transmission lines within very small simulation time steps (in the order of some hundreds of nanoseconds).

Finally, a specific application of the developed FPGA-RTS will be presented for the development of a fault location platform by leveraging the EMTR theory.

 04/27/2021

 10:30 AM(Iran)

 Register: <https://forms.gle/2dW5FhduEnjHGq7d9>

 Login: <https://vc.sharif.edu/ch/ee-webinar1>

Picture 9. Fault Location in Power Network using Time Reversal Theory Webinar



مجمع قدرت IEEE بخش ایران برگزار می‌کند

میزگرد تامین پایدار انرژی الکتریکی، اوج بار ۱۴۰۱ و بعد از آن

محورهای گفتگو:

- سرمایه گذاری برای توسعه ظرفیت نیروگاهی
- چالش‌ها و برنامه‌ی توسعه منابع تجدیدپذیر
- تعرفه‌های برق و یارانه انرژی
- برنامه‌ریزی تعمیرات نیروگاهی

- تامین سوخت در اوج بار
- پیش‌بینی بار و ظرفیت تولید در دسترس
- آثار خاموشی و مدیریت بار روی صنایع



محمود رضا حقی فام
استاد دانشگاه تربیت مدرس
معاون پژوهشی و فناوری گروه مهندسی



حمید حجت جان
وزیر اسبق نیرو



حمید فرید
مشاور مدیرعامل توانیر
معاون اسبق برنامه‌ریزی توانیر



مصطفی رحیمی شهدی
مدیرعامل شرکت مدیریت شبکه برق ایران



محمد صادق قاضی زاده
دانشیار دانشگاه شهید بهشتی
عضو هیئت مدیره توانیر



بوژنگ فلاحتیان
معاون برنامه‌ریزی، وزارت نفت
معاون سابق برق و انرژی وزارت نیرو



کنورک قره‌تپیان
استاد دانشگاه صنعتی امیرکبیر

یکشنبه ۱۸ مهرماه ۱۴۰۰ ساعت ۱۶ الی ۱۸

لینک ثبت‌نام: <https://b2n.ir/IEEEPowerChapter>

Picture 10. Round Table on Sustainable Electricity Supply, peak load 1401 and after

مجمع قدرت IEEE بخش ایران برگزار می‌کند
نشست دوم میزگرد
تامین پایدار انرژی الکتریکی، اوج بار ۱۴۰۱ و بعد از آن

محوه‌های گفتگو:

- برنامه توسعه ظرفیت نیروگاهی تا اوج بار ۱۴۰۱
- تبادل‌ات برون‌مرزی انرژی الکتریکی
- سرمایه‌گذاری برای توسعه ظرفیت نیروگاهی
- موانع سرمایه‌گذاری در تولید برق
- اقتصاد صنعت برق و نحوه توسعه
- تنظیم‌گری در این صنعت

اسدالله صبوری
نائب رئیس سندیکای شرکت‌های تولید کننده برق

امیردولابی نژاد
معاون برنامه ریزی و توسعه مدیریت شرکت مادر تخصصی تولید نیروی برق حرارتی

محمدصادق قاضی زاده
دانشیار دانشگاه شهید بهشتی عضو هیئت مدیره نوابیر

سیدفرشادفاطمی اردستانی
استادیار اقتصاد دانشگاه صنعتی شریف

کنورک قره‌تپیان
استاد دانشگاه صنعتی امیرکبیر

سه‌شنبه ۱۱ آبان ۱۴۰۰ ساعت ۱۵:۳۰ الی ۱۷:۳۰

لینک ثبت‌نام: <https://b2n.ir/IEEEPowerChapter>

Picture 11. The second meeting of the Round Table on Sustainable Electricity Supply, peak load 1401 and after

۲۰ مهرماه ۱۴۰۰
ساعت ۱۷:۳۰ الی ۱۸:۳۰

دکتر سعید سعادت
مدیرعامل محترم مجتمع فنی تهران

کشف نقطه طلایی (Golden Point) با رویکرد توسعه توانمندیهای شخصی به منظور کشف راز موفقیت و رضایتمندی شغلی

چکیده:
بسیاری این پرسش را با من مطرح می کنند چرا برخی از افراد موفق تر از دیگران هستند. چه ویژگی ها و چه رازی است که موجب موفقیت برخی از افراد می شود؟ در این وبینار من تلاش خواهم نمود با ارائه چگونگی رهایی از منطقه امن (Comfort zone) و گذر از منطقه ترس (Fear zone) و ورود به منطقه یادگیری (Learning zone) تا رسیدن به منطقه رشد (Growth zone) و چگونگی کشف نقطه طلایی (Golden Point) این راز را برای شما فاش کنم که چگونه با شناسایی ارزش ها و علائق، کشف توانمندی ها و شناخت نقاط ضعف و قوت، فرصت ها و تهدیدهای محیط پیرامونتان چشم انداز مطلوب خود را ترسیم کرده و برای موفقیت خود همراه با خشتودی، هدف گذاری و برنامه ریزی کنید.

لینک شرکت در وبینار
<https://meetbk.kntu.ac.ir/b/zar-irb-p50>
کد دسترسی: 918307

Picture 12. Discover the Golden Point Webinar

۱۱ خردادماه ۱۴۰۰
ساعت ۱۷ الی ۱۸:۳۰

مهندس ایوب اسماعیلی
مدیرعامل گروه مشاوره مدیریت رایبین

رهبری در عصر دیجیتال

چکیده:
تحول دیجیتال و فضای که امروزه پدید آمده است بیش از هر زمان دیگری نیازمند توسعه قابلیت ها و شایستگی های فردی است و در این میان برای رهبران کسب و کارها تغییر پارادایمهای ذهنی و تلاش برای درگیر شدن با فضای تحول دیجیتال پیش از همیشه اهمیت پیدا کرده است. فرقی نمی کند که شما در حال حاضر هدایت یک کسب و کار را برعهده دارید، یا در سونای شکل دهی آن به سر می برید، یا حتی با رهبران این عصر در تعامل و همکاری برای پیش بردن ایدهها و رویاهای مشترکتان هستید. یادگیری شایستگی های رهبران عصر دیجیتال یک ضرورت محض است. در این وبینار در خصوص اندیشه های ورود به عصر دیجیتال و الزامات رهسپار شدن به آن هم افزایش خواهیم کرد.

لینک شرکت در وبینار
<https://meetbk.kntu.ac.ir/b/zar-irb-p50>
کد دسترسی: 918307

Picture 13. Leadership in the Digital Age Webinar

Mohamed El Dallal is presenting

Industry Ambassador Reports on KPIs

- Track progress
- Help with continuity
- Feedup to the IEEE org on the industry engagement
- Help with developing strong collaboration
- Sharing best practices
- Encourage those who have not reported to do so. Now we are expecting Half year updates
- Format: Simple use the Afi KPIs

Section	Received
Croatia	10/03/2021
Iran	13/03/2021
France	13/03/2021
Lebanon	14/03/2021
Denmark	14/03/2021
Kenya	15/03/2021
Greece	15/03/2021
Sweden	15/03/2021
Tunisia	16/03/2021

IEEE

2:01 PM | psr-wrjz-qaa

Picture 14. AFI Meeting

IEEE Iran Section Awards 2021

فراخوان جوایز سال ۱۴۰۰

آخرین مهلت: پنج شنبه ۳ بهمن ۱۳۹۹
برای کسب اطلاعات بیشتر، مطالعه آیین نامه و نحوه ارزشیابی هر یکی از جوایز به آدرس تارنمای بخش جوایز ایران مراجعه نمایید.
ieeep.org.ir/Awards

IEEE Iran Section Awards 2021

AWARD TO YOU

جوایز

جایزه آموزش و پژوهش رده جوانان

جایزه زنان در مهندسی (WIE)

جوایز اساتید پیشکسوت در امر آموزش و پژوهش

بخش ایران در نظر دارد تلاشگر جوان برتر در زمینه های آموزش و پژوهش مهندسی برق و کامپیوتر برای مقطع ۵ ساله منتهی به ۱۳۹۹/۱۲/۱ را انتخاب و تقدیر نماید از این رو، از فعالان جوان دعوت می گردد، سوای خود در باره زمانی ۱۳۹۴/۱۲/۱ تا ۱۳۹۹/۱۲/۱ به همراه مدارک مربوطه را حداکثر تا تاریخ ۱۳۹۹/۱۱/۳۰ در تارنمای جوایز بخش ایران بارگذاری نمایند.

جایزه زنان در مهندسی، جایزه ای برای ایجاد انگیزه و تقدیر از زنان تلاشگر و خلاق و کارآفرین درعرصه های مختلف فعالیت IEEE در کشور است. اهداف کلی آن ارتقاء فعالیت ها در راستای اهداف کمیته WIE، تشویق، ترغیب و تقدیر از زنان تلاشگر و تأثیرگذار و ارتقای جایگاه IEEE و WIE در ایران است.

در راستای قدردانی از زحمات اساتید برجسته مهندسی برق و کامپیوتر، بخش ایران هر ساله دو جایزه با عناوین اسناد پیشکسوت آموزشی و اسناد پیشکسوت پژوهشی اعطا می کند. اساتید منتخب اعضای پیشکسوت هیئت علمی مهندسی برق و کامپیوتر هستند که دستاوردهای بزرگ و یکنایی را در زمینه های آموزشی و پژوهشی در کشورکسب نموده اند.

(a)

فراخوان جوایز صنعتی بخش ایران

مهلت ارسال: ۳۰ بهمن ماه ۱۳۹۹

برای کسب اطلاعات بیشتر
مطالعه آیین نامه و نحوه ارزیابی جوایز،
به آدرس تارنمای بخش ایران مراجعه نمایید

iee.org.ir/awards

مهندس پیشکسوت
در صنعت

کارآفرینان برتر



 **IEEE**
IRAN SECTION

(b)



The poster features the IEEE Iran Section logo at the top left. It contains two circular photographs: one showing a group of people in a meeting and another showing a group of people on a stage receiving awards. The main text is in Persian, including the title 'فراخوان جوایز دانشجویی سال ۱۴۰۰' (Call for Student Awards 1400) and 'امسال چه کسانی برگزیده هستند؟' (Who will be selected this year?). A list of award categories is provided on the right, and a website URL is at the bottom left.

IEEE IRAN SECTION

امسال چه کسانی
برگزیده هستند؟

فراخوان جوایز دانشجویی سال ۱۴۰۰

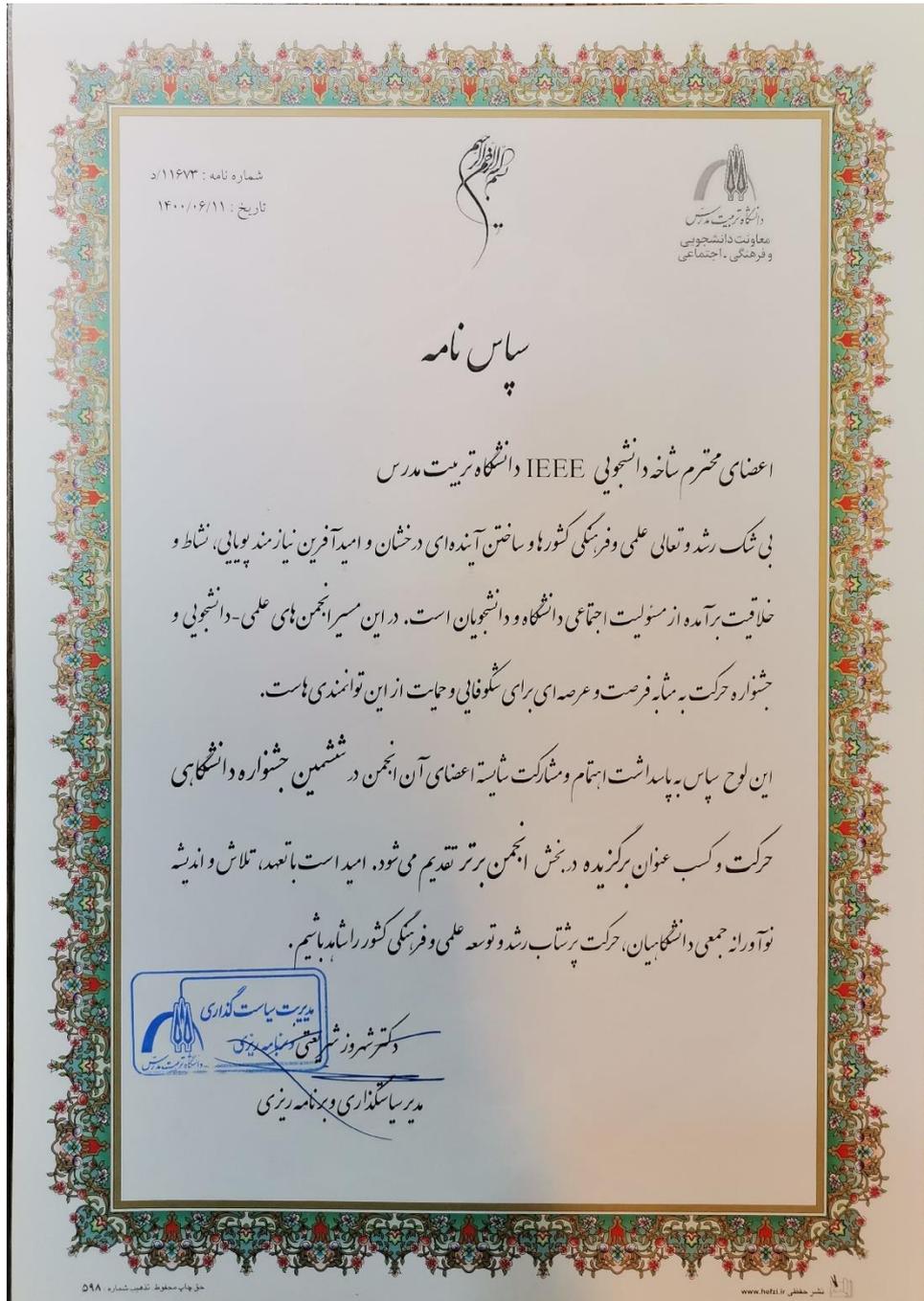
پروژه ک کارشناسی
پایان نامه ک کارشناسی ارشد
رساله ک برگزیده ک دکترا
شاخه ک دانشجویی برگزیده
شاخه های دانشجویی قابل تقدیر
مشاور برگزیده شاخه دانشجویی

به اطلاع می رساند، مهلت نامزدی برای تمامی جوایز، تا تاریخ پنج شنبه ۳۰ بهمن ۱۳۹۹ است که این تاریخ غیرقابل تبدیل است. برای کسب اطلاعات بیشتر، مطالعه آئین نامه نحوه امتیاز دهی هر یک از جوایز به آدرس www.ieee.org.ir/Awards.html بخش ایران مراجعه نمایید.

www.ieee.org.ir/Awards.html

(c)

Picture 15. Call for IEEE Iran Section Awards



(a)

شماره نامه: ۱۱۶۷۳/د
تاریخ: ۱۴۰۰/۰۶/۱۱





دانشگاه تربیت مدرس
معاونت دانشجویی
و فرهنگی - اجتماعی

پاس نامه

اعضای محترم شاخه دانشجویی IEEE دانشگاه تربیت مدرس

بی شک رشد و تعالی علمی و فزاینده کشورها و ساختن آینده ای درخشان و امید آفرین نیازمند پویایی، نشاط و خلاقیت برآمده از مسؤلیت اجتماعی دانشگاه و دانشجویان است. در این مسیر انجمن های علمی - دانشجویی و جشنواره حرکت به مثابه فرصت و عرصه ای برای شکوفایی و حمایت از این توانمندی هاست.

این لوح پاس برپاداشت اهتمام و مشارکت شایسته اعضای آن انجمن در ششمین جشنواره دانشگاهی حرکت و کسب عنوان برگزیده در بخش محتوای دیجیتال تقدیم می شود. امید است با تمهید تلاش و اندیشه نوآورانه جمعی دانشگاهیان، حرکت پرشتاب رشد و توسعه علمی و فزاینده کشور را شاهد باشیم.



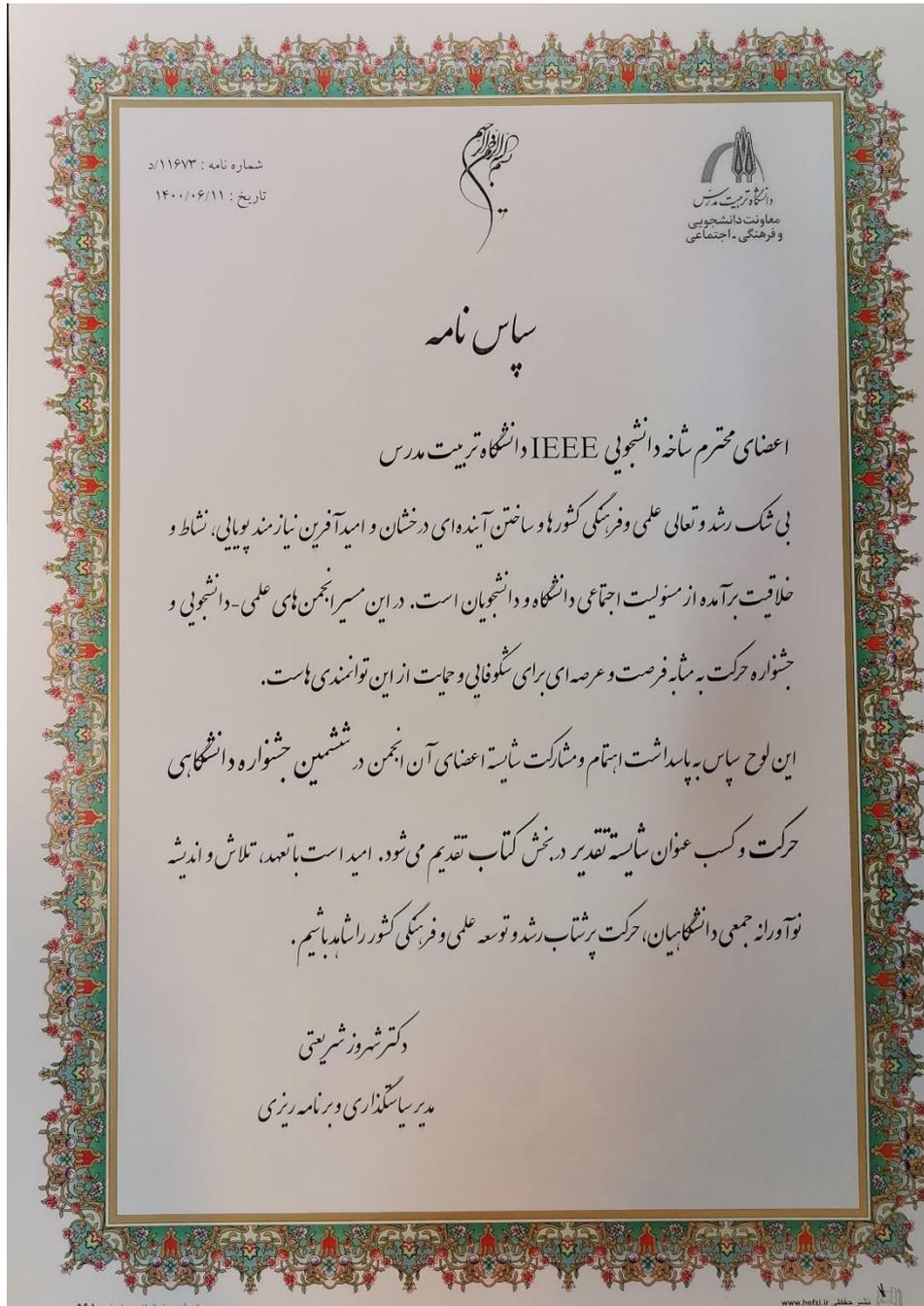
دانشگاه تربیت مدرس

مدیریت سیاست گذاری
دکتر شهروز کبیری
مدیر سیاست گذاری و برنامه ریزی

حق چاپ محفوظ است. تهیه شده است

www.hefi.ir

(b)

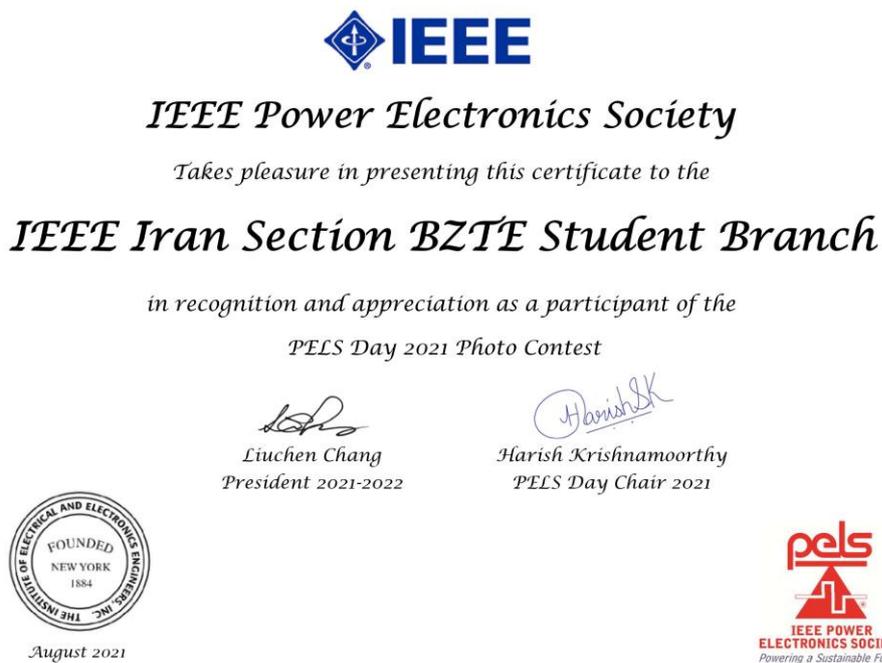


(c)

Picture 16. Achieving the position of the top branch, worthy book and selected title in digital content by Tarbiat Modares University (TMU) student branch in the Harekat festival



Picture 17. Achieving the 37th Place in the World in IEEEXtreme Competition by KNTU Student Branch



Picture 18. IEEE PELS Day 2021 competition