

IEEE Lahore Section **NEWSLETTER**

August 2022

Chief Editor: M. Arslan Shahid



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I welcome you all who are reading the first edition of the IEEE Lahore Section. As you may know, the IEEE was established back in 1884 in the USA. Currently, it has around 4,00,000 members around the world, with more than 50% of its membership outside the USA. Worldwide IEEE is divided into 10 geographic regions. We are in Region 10 (R 10). R 10 is further divided into 60 Sections, with three in Pakistan, namely, Lahore, Karachi, and Islamabad Sections. The Lahore Section is one of the oldest in the region, it was established in 1968.

Dr. Amjad Hussain

▲ The current executive committee (ExCom) of the IEEE Lahore Section is for the term 2021-22. Lahore is a vibrant Section, having 2 subsections, 4 affinity groups, 5 society chapters, and 2 joint chapters.

Our student branch (SB) count has reached 40. It is comforting to note that student branch chapters of many IEEE societies are actively formed in many of the SBs.

It is an immense pleasure to express my feelings after going through amazing humanitarian initiatives taken by our Student branches and section volunteers. Students and technical chapters in cooperation are organizing wonderful and unique technical activities which were recognized by IEEE Societies and MGA. The section office bearers of societies and the Affinity group play a great role in promoting research and technical activities in Pakistan too.

Please feel free to write to me and my team your suggestions for improving the activities, reach, membership retention, and growth rate of the Section, as well as the Section website.

Your active participation is asking for Section and Subsection programs. Altogether, we hope to have an exciting time with many possibilities for professional supplementations.

Welcome Message

Vice Chair, IEEE Lahore Section



Kashif Bashir

I would like to thank the members of the IEEE Lahore Section for their confidence in me to serve as Vice Chair for 2021-2022. IEEE Lahore Section was founded in 1968 and is the region's most active and oldest Section. I began volunteering for IEEE in 2015. I am the founder of the region 10 IEEE COMSOC Summer School Program. This year, we have ambitious objectives for membership expansion, IEEE-sponsored conferences, roles for women in engineering, organizing a mini POCO, IEEE Lahore Congress, technical seminars/summits, technology-focused workshops, student competitions, and distinguished lecturer programs. I shall do my best to match the expectations of IEEE Lahore Section members.

Welcome Message

Newsletter Chair, IEEE Lahore Section



Muhammad Arslan Shahid

I am pleased to welcome you to this 1st edition of the Newsletter of the IEEE Lahore Section. Congratulations to the IEEE Lahore Section Newsletter team for producing this edition. We have tried to include the main events and activities held by and under the IEEE Lahore Section with maximum details and relevant photos.

We have included the history of the IEEE Lahore Section since its birth as many may not be familiar with its journey from the start. Section's executive committee 2021-2022 is also introduced along with their designations.

Highlights of some of the events organized by the IEEE Lahore Section are added to this edition. Three signature events with maximum details are published. Activities by the technical society chapters under the IEEE Lahore Section are also added.

Three technical columns are written by the IEEE members/graduate student member to add value to the document. Awards won by volunteers in Lahore Sections are also showcased. This edition also displays the Call for Papers of the three conferences whose MOUs are signed with the IEEE Lahore Section for its technical co-sponsorship. Researchers and authors are welcome to submit their authentic research.

I strongly recommend you to read this newsletter entirely to see and appreciate the efforts of the volunteer made under the IEEE Lahore Section.

All the professionals, executives, students, and volunteers are welcome to share the content to publish in the next edition of the IEEE Lahore Section's Newsletter. Content can be shared via email to arslanshahid226@ieee.org. Also please share your comments and suggestions via email.

Thank you and Kind Regards,
Newsletter Chair, IEEE Lahore Section

History of IEEE Lahore Section

Since 1968

Since 1947 when Pakistan was created, with two wings, East & West Pakistan, there were a couple of members of IEEE located in this area. Up to 1968, more than one hundred members were residing in both East & West Pakistan. More in West Pakistan especially in the town of Lahore, the capital of West Pakistan, a central place of Electrical activities. Lahore is also the Head Office of the Water and Power Development Authority, the biggest utility company in the country. The IEEE members residing in Lahore felt the need of having a common forum for arranging technical meetings and seminars to increase their technical knowledge.

In accordance with IEEE by-laws collection of petitions for establishing a Pakistan Section was taken in hand. Since members of IEEE were scattered all over the country it took quite some time to collect the requisite number of petitions from IEEE members. The entire process of collecting petitions and submitting them to the Head Office was carried out for a couple of months by WAPDA's Director Mr. I.D Arshad and an American expatriate engineer Mr. Larner, who later on became a Fellow of the IEEE. Therefore, a special resolution was approved for the establishment of the Pakistan Section in 1968. Then Mr. I.D. Arshad was appointed as Chairman of the Section on an ad-hoc basis to conduct elections for the officers of the Section. As a result of the elections, Mr. S.M. Akbari became the first Chairman of the Section for the year 1969.

Framing of the constitution of the Pakistan Section was then taken up which was approved by the Regional Director and IEEE Executive Committee in 1970. With the establishment of the Section in this country, many benefits started accruing to the members living in this area. Technical meetings were regularly held almost every month at which papers were contributed by prominent engineering and IEEE members. To encourage the enrolment of new members it was resolved by the Pakistan Section for allowing them the facility of payment of part of their dues in rupees – IEEE Headquarters agreed to accept but 10% of the annual dues in local currency. This amount was used in turn by the local section to meet the expenses of arranging technical meetings, and seminars and for conducting a membership publicity campaign.

Incidentally, Pakistan Section became one of the pioneer Sections in Region-10.

Mr. S.M. Akbari remained Chairman of the Section up to 1972.

In 1973, Mr. S.M. Vehra was elected Chairman to succeed Mr. Akbari who remained in this position for about six years after repeated elections. The Region-10 Committee proposed an amendment to the PAKISTAN Section Constitution restricting the tenure of office of the Section to a maximum of three years which amendment was accepted by the Pakistan Section and provided as such in the Constitution.

In 1978, Mr. I.D. Arshad was elected Chairman of the Section when the total membership of the Section was increased to 135. This number had gone much below the 100th mark after the separation of East Pakistan in the early seventies when Bangladesh was created. Due to extra efforts put in by the officers of the Section and active support given by Director Region-10 the membership campaign was further speeded up.

During this period members residing in Karachi, a big port city in Pakistan petitioned to form a sub-section which was accepted. Karachi sub-section was formed on May 22, 1978. Due to the untiring efforts and dedication of Mian S. Hasan, previous Vice-Chairman, Secretary, and Treasurer of Pakistan Karachi sub-section was raised to Section level on July 17, 1982, with 76 members. Dr. R.E. Larson the President of IEEE formally inaugurated Karachi Section. A student branch at the University of Engineering and Technology Lahore was also inaugurated by him in 1982. In Dr. Larson's remarks, he rightly mentioned Mr. Hasan as the godfather of the Karachi and Pakistan Section.

The IEEE Islamabad Sub-Section was founded on August 5, 1998, at the conference hall of the Pakistan Engineering Council, Islamabad – the scenic capital of Pakistan. In this inaugural meeting, Dr. Muhammad Akbar was elected its first chairman. Professor Muhammad Zafrullah and Engr. Shahab Hussain were elected as secretary and assistant secretary respectively.

Considering the need for more effective liaison with Professional and Student members, Islamabad Section initiated the Peshawar Sub-Section. This would be associated with Islamabad Section until its maturity to full Section Status.

Now Pakistan has three full sections, Lahore, Karachi, and Islamabad, and one sub-section Peshawar.

All of these sections are actively engaged in the engineering profession and are collaborating with other national professional institutions in arranging symposiums, technical lectures, and seminars of national importance.

Section's Executive Committee 2021-22

IEEE Lahore Section

- **Chair** Dr. Amjad Hussain, Retired.
- **Vice Chair** Mr. Kashif Bashir, KICS UET Lahore
- **Gen Sec** Dr. Adnan Siddique, ITU
- **Treasurer** Mr. Shahid Zulfiqar, KICS UET
- **Chair Student Activities Committee (SAC)** M. Hamza Ihtisham, Industry
- **Past Chair (Ex-Officio)** Engr. Shazeb Rathore, Industry
- **Chair Membership Development (MD) Committee** Dr. Adeel Pasha, LUMS
- **Chair Conferences Committee** Dr. Waqar ul Quonain, PUCIT Punjab University
- **Chair Awards and Recognitions Committee** Dr. Ali Afzal Malik FAST
- **Chair Professional Activities Committee** Dr. M. Atif, UOL
- **Chair Educational Activities Committee** Mr. Ali Raza, GCU Lhr
- **Facebook Admin** Ms. Safoora Saleem, Industry
- **Newsletter Chair** Mr. Muhammad Arslan Shahid, UOL
- **Member ExCom (SSR) Section Student Representative**, Abdur Rehman, UET

Membership and Student Chapters Statistics

IEEE Lahore Section

Membership Grade	2021	2020
Associate Member	4	
IEEE Student Member	334	149
IEEE Graduate Student Member	124	95
IEEE Member	240	161
IEEE Senior Member	49	46
Life Senior	5	5
Life Member	1	1
Total	757	457

Chapters

- IEEE Communication Society
- IEEE Power & Energy Society
- IEEE Industry Applications Society
- IEEE Computer Society
- Antennas and Propagation, Circuits and Systems, Microwave Theory and Techniques and Solid-State Circuits Joint Societies Chapter



Joint Chapters

- IEEE Robotics & Automation Society
- IEEE Control System Society



Affinity Groups

- IEEE Women in Engineering
- IEEE Young Professionals
- IEEE Consultant Network
- IEEE SIGHT



Sub-Sections

- IEEE Bahawalpur Sub-Section
- IEEE Faisalabad Sub-Section

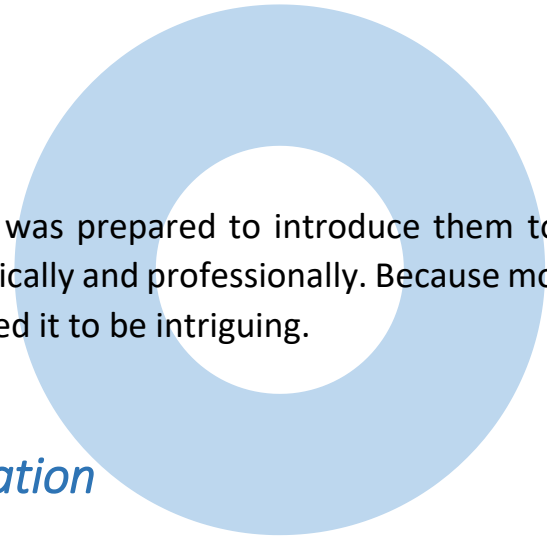


IEEE Orientation

Event Date: February 28, 2022

Venue: Forman Christian University, Lahore

Remarks: For the new batch, an IEEE orientation was prepared to introduce them to the organization. how it can benefit them both academically and professionally. Because most of their questions were addressed, students considered it to be intriguing.



IEEE Orientation

Event Date: March 8, 2022

Venue: Punjab Tianjin University of Technology, Lahore

Remarks: Dr. Muqet from Punjab Tianjin University of Technology organized this orientation. Students were very eager to learn about IEEE. We can only hope that they will emerge as a new Student Branch.

IEEE Lhr. Section Iftar

Event Date: April 12, 2022

Venue: Gourmet Restaurant, Lahore

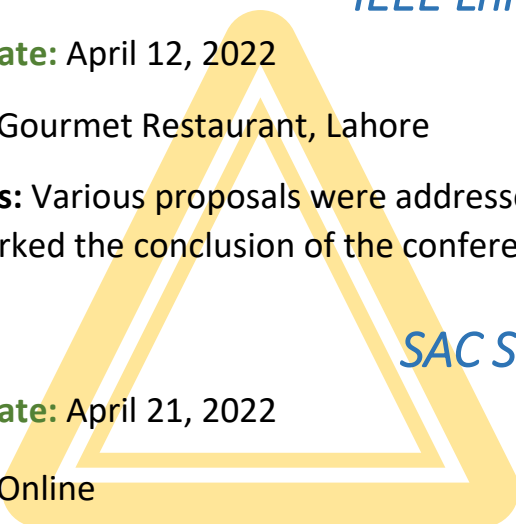
Remarks: Various proposals were addressed at a meeting of the IEEE Lahore section. and an Iftar marked the conclusion of the conference.

SAC STARS Team

Event Date: April 21, 2022

Venue: Online

Remarks: SSR M. Abdul Rehman assembled a group to handle the management, editing, and design. This team's wide diversity is an intriguing aspect. Members of this team come from several universities.



Learn and Earn with Gaming

Event Date: May 25, 2022

Venue: Online

Remarks: This session was planned in conjunction with Game Train. It informs students about the most recent developments in the video game business. More information, including how students might pursue it as a profession

IEEE Orientation

Event Date: June 16, 2022

Venue: UET Narrowal

Remarks: This orientation was conducted by the UET narrow student group to provide a quick insight into the new bees. The orientation was fantastic. the crew was competent and well-organized.

SAC Stars Meetup

Event Date: July 6, 2022

Venue: UET Lahore

Remarks: In sha Allah, the Sac Stars meetup will take place on July 6, 2022. This meetup's goal is to enable students to widen their networks. participation from team members and professionals.

IEEE Lahore Section AGM 2021

Event Date: February 19, 2022.

Venue: University of the Punjab, Lahore.

The Annual General Meeting (AGM) 2021 of the IEEE Lahore Section was held on February 19, 2022, at the Seminar Hall, College of Earth & Environmental Sciences, University of the Punjab, Lahore. It was attended by over 42 participants (including 39 IEEE members). Prof. Dr. Syed Amjad Hussain (Chair, IEEE Lahore Section) joined the



event remotely (via video conferencing), as he was abroad for family commitments. On the ground, he was represented by the Vice Chair IEEE Lahore Section, Mr. Kashif Bashir, who led the event's organization. Mr. Hamza Ihtasham, Chair of Section Student Activities Committee (SSAC) conducted the proceedings and requested Ms. Mehak Agha to take duties as stage co-host. She officially started the meeting with the National Anthem of Pakistan.

Recitation from Holy Quran

Mr. Abdur Rehman recited a few verses from the Holy Quran.

Welcome speech by Dr. Azhar Naeem



Dr. Azhar Naeem, Director of the Electrical Engineering Department at the University of Punjab, gave a welcome note to all the participants. Dr. A. Naeem graciously supported IEEE Lahore Section in hosting this event on the university's premises.



Welcome and introduction to IEEE Lahore Section

Dr. Syed Amjad Hussain, Chair of IEEE Lahore Section, was connected via video conferencing. He welcomed all the meeting attendees on behalf of the Section and informed the audience about the history of IEEE as well as the Section. He emphasized the role of IEEE in advancing

technology for humanity. He also shared the organizational structure of the different Organizational Units (OUs) in the IEEE Lahore Section as well as its two Subsections namely the Faisalabad subsection and Bahawalpur subsection.

IEEE Lahore Section Annual Report by the Chair

On behalf of the Chair IEEE Lahore Section, Mr. Kashif Bashir, Vice Chair IEEE Lahore Section, presented the annual report for the year 2021. Currently, IEEE Lahore Section has the following OUs under its ambit:



IEEE Lahore OUs	Count
IEEE Subsections	2
IEEE Lahore Section Chapters	5
IEEE Lahore Section Joint Chapter	2
IEEE Lahore Section Affinity Groups	4
IEEE Lahore Section Student Branches	42
IEEE Lahore Section Student Chapters	44
IEEE Lahore Section Student Affinity Groups	18
Total	117

The Vice-Chair also informed the attendees about the current status of active members in the section for the year 2021, in comparison with 2020.

Membership Grade	2021	2020
Associate Member	4	
IEEE Student Member	334	149
IEEE Graduate Student Member	124	95
IEEE Member	240	161
IEEE Senior Member	49	46
Life Senior	5	5
Life Member	1	1
Total	757	457

There is a 66% increase in membership, which is welcoming. However, 2020 had particularly low memberships due to covid-19-related uncertainties. The increase in memberships in 2021 is indicative of returning to normalcy. The statistics related to various activities conducted by the OUs in Lahore Section were also reported.

IEEE Lahore OUs	No. of Activities
IEEE Communication Society Lahore Section Chapter	6
IEEE Power Energy Society Lahore Section Chapter	4
IEEE Industry Application Society Lahore Section Chapter	5
IEEE Computer Society Lahore Section Chapter	2
IEEE Robotics and Automation Society Lahore Chapter	1
IEEE Young Professionals Lahore Section Affinity Group	6
IEEE Women in Engineering Lahore Section Affinity Group	100 Webinars
Total	124

The glaring performance of the Women In Engineering (WIE) affinity group was hailed with thumping applause.

The various achievements and awards won by different individuals/OUs of the Section during 2020-2021 were also shared with the assembly, as under:

- Mr. Syed Tanweer Shah Bukhari was selected for IEEE Robotics and Automation Society (RAS) Developing Country Faculty Engagement Program 2020
- University of South Asia Student Branch won \$300 for the proposal submitted under IEEE R-10 EAC's Call for Proposal For "Reaching Local Initiatives.
- IEEE UCET-IUB won "IEEE Regional Exemplary Student Branch Award 2021"
- IEEE UCET-IUB won "IEEE R10 Student Branch of the Month - July 2021"
- The proposal "Awareness on Social Distancing Alert and System Implementation during COVID'19" in response to the IEEE Region 10 & IEEE HAC Special Call for Proposals: Addressing Local Needs During COVID Time has been accepted for funding of \$450.
- IEEE UCET-IUB won \$600 Funding from IEEE YP Local Activity.
- IEEE UCET-IUB won "\$400 by IEEE Region 10 SAC MDLT Fund for "Leading my Branch to Success "
- IEEE UCET-IUB won "\$500 YP STEP Funding - "Are top Grades Enough for Career?"

- IEEE COMSOC Student Competition
 - Ms. Alina Munir, University of Engineering and Technology won COMSOC Honorary Mention on her project “Diagnosis of Specific Phobic Anxiety Disorders Using Virtual Reality Environment”.
 - Mr. Fahad Tanveer, University of Engineering and Technology won COMSOC Honorary Mention on his project “Live Radar”.
- Ms. Rida Zaniab and Saher Afshan won 4th Prize Globally in IEEE IAS CMD Humanitarian Contest 2021.
- Mr. Muhammad Hamza Ihtisham won MGA IEEE Young Professional Achievement Awards 2021.
- Mr. Muhammad Hamza Ihtisham won the IEEE IAS Outstanding Young Member service award 2021.
- Mr. Muhammad Hamza Ihtisham served on IEEE YP EMB Global Committee.
- Mr. Muhammad Hamza Ihtisham served as IEEE IAS CMD Evaluation Committee Member.

The assembly congratulated the high achievers and award winners.

Annual reports of the OUs (ComSoc, SAC, WIE, Computer Society)

- Mr. Kashif Bashir, as Chair IEEE ComSoc Chapter, presented the annual report regarding the chapter’s technical activities.
- Mr. Salheen Bakht, Gen. Sec. IEEE Computer Society Chapter presented the annual report regarding the chapter’s technical activities.
- Ms. Asma Sajid, past-Chair WIE Affinity group, presented the annual report regarding the group’s various activities. Ms. A. Sajid also informed the assembly that the current Chair of the group is Ms. Safoora Saleem (who was previously Gen. Sec. of the group).
- Mr. Hamza Ihtasham presented the report to the Section’s Student Activities Committee, and he also shared the different IEEE-related opportunities for its members. The need for membership drives was emphasized.



- Dr. M. Gufran, Chair of IEEE Faisalabad Subsection, presented the subsection’s annual report on various technical and non-technical activities.
- Ms. Nosheen Khan, on behalf of the Chair IEEE Bahawalpur Subsection, presented the subsection’s annual report of various technical and non-technical activities.
- Dr. Tanweer Shah Bukhari represented the IEEE RAS joint chapter and presented the chapter’s activities and achievements. He emphasized the importance of IEEE grants for faculty.



Address by Dr. Kamran Abid

Prof. Dr. Kamran Abid from the Institute of Electrical, Electronics and Computer Engineering, thanked IEEE Lahore Section ExCom. He was pleased to host this assembly on the University of Punjab’s premises. He expressed his commitment to hosting and engaging with more IEEE-related activities/events in the university. He had to cut his address short due to an emergency. He has presented a shield as a token of thanks by Mr. Shahzeb Rathore, past Chair of IEEE Lahore Section.



Approval of the IEEE Lahore Section budget for the year 2022



Mr. Shahid Zulfiqar, the Treasurer of the IEEE Lahore Section, presented the proposed budget for the year 2022 and opened the discussion for any concerns. The WIE and YP affinity groups’ Chairs requested an increase in funds. The matter was debated. Eventually, the YP budget was increased by PKR. 5,000. WIE’s budget stood as presented. There was no further debate, and the matter was closed. Details of the complete budget breakdown are available with Mr. Shahid Zulfiqar, Treasurer IEEE Lahore Section, and can be requested if required.

Keynote address & closing remarks by Dr. Waqar Mahmood

Dr. Waqar Mahmood, Director of KICS-UET Lahore, shared a brief Introduction of the Al-Khwarizmi Institute of Computer Sciences (KICS), UET Lahore, and its ongoing projects with different organizations.



Address by Dr. Yasir Daniyal, Dean CS, UMT Lahore

Dr. Yasir Daniyal was requested to share with the assembly the benefits and opportunities. He apprised the audience of the different aspects



relevant to raising IEEE membership among the academic institutions of the Lahore region.

Address by Dr. Wajahat Qazi, COMSATS Lahore



Dr. Wajahat Qazi shared with the assembly his thoughts as an entrepreneur and academic, on the importance of industry-academic linkages under IEEE.

The meeting ended with group photos with participants and dinner.

Awards



IEEE Pakistan Student/YP/WIE/Student Congress 2022

Event Date: February 26-27, 2022

Venue: Royalton Hotel, Faisalabad

Introduction:

It was two days IEEE Pakistan Congress where students from Kashmir to Karachi participated. 1000+ students from over 70 universities and 40+ cities of Pakistan took part to make this historical Congress. It was hosted by IEEE



Faisalabad Sub-Section and organized by the IEEE Faisalabad Sub-Section and IEEE Lahore Section. This congress is now holding the record for the highest number of participants in any IEEE Pakistan congress. More than 400 participants were from outside the universities of the Faisalabad region. Participants were not only the students, there were Engineers, Doctors, professors, and industrials also who participated in this historical IEEE Pakistan congress.

The university which had the highest number of participations from Faisalabad in this congress was UET Lahore Faisalabad campus, The University which had the highest number of participations outside Faisalabad was Superior University Lahore. A huge number of participations were from the IEEE Karachi section. IEEE Islamabad section showed good participation as well.

Day 1

- Mian Idrees Chairman Sitara group talked Faisalabad becoming the “Manchester of Pakistan” and the way textile boomed and also, he addresses about the importance of Academia-Industry Linkage, and how universities lack industrial standards. He intrigued the fresh minds of youth that they could be the next Mian Idrees of Pakistan. He also



addressed the importance of Academia-Industry linkage and how our education system lacks the practicality of Industrial work.

- Atif Munir Sheikh, President of FCCI, talked about product increment and investment opportunities. When he started talking about how technological advancements have opened the way to a new world of business, he just conquered the hearts of our audience. He also talked about Industry-academia collaboration which will help both sectors in finding brilliant professionals and job opportunities will be generated.



- Mr. Kashif Bashir, vice chair IEEE Lahore section, Mr. Kashif briefly talk about IEEE history and its mission for humanity. He also encouraged students and professional to join IEEE membership.



- Haider Mairaj, CEO of Askolay, told 10-12 myths of digital Manjan, with his charismatic personality and unique sense of poetry he delivered his message in a very subtle way. He talked about the advancement in the IT industry and how we can grow our IT community. "Why are students afraid to join the digital world?" and how many counties progressing in the IT field and contributing to the National economy?



- Mr. Muhammad Ali, a senior trainer of the Youth Club, had a motivational session with students to make them future leaders. He had a soulful session explaining spiritual connectivity with the creator and His plans. He also talked about the only resistance we all are facing is the lack of confidence in our personalities.



- Muhammad Faheem Anwar, Country Manager CISCO NetAcad, talks about the CISCO Academia program. He emphasizes Academia and Industrial Collaboration, He also talked about the drastic change in industries with the technology innovation.



- Panel discussion consists of Miss, Tosheeba Sarwar (CEO of Tehmina Durrani Foundation), Mir MAK (Chairman academy), Prof Dr. Shehzad Sarfraz (Director FAST-NU CFD CAMPUS), Prof Dr. Mehrun-Nisa (Chairperson Dept. of Nutrition GCUF), Prof Dr. Zahra Batool (Chairperson Dept. of Sociology) and Prof Dr. Waqar Mehmood (Director, KICS-UET), Panel discussion solved the most of the queries of our young generation about different topics related to our panelists' fields.



- Mr. Adnan Aslam (CEO Digi Khaata) Addressed the youth with his success story of a young Entrepreneur who has always been a stream of game changers and risk takers. He shared his story with passion and determination in his eyes which was a great motivation and inspiration for all of us.



- Dr. Wajahat Qazi (Co-Founder, NeoCog (Pvt) Ltd) talked about the future of the Man-Machine Society, that how Artificial Intelligence revolves the mankind. Artificial intelligence can dramatically improve the efficiencies of our workplaces and can augment the work humans can do. When AI takes over repetitive or dangerous tasks, it frees up the human workforce to do work they are better equipped for—tasks that involve creativity and empathy among others.



- Mir Muhammad Ali Khan (Chairman eCadmeY) talked about Youth Employment. He had a heartwarming and motivational session with young students. He also guided us about the current market employment situation and how we can create our places in this competitive market. Youth employment thus benefits social development. It also benefits economic development by facilitating the entry of young skilled people into the productive sectors of an economy and enabling the economy to sustain or increase its productivity and competitiveness in the global marketplace.



- Prof Dr. Yasir Ayyaz (CPD/Chairman, NCAI) talked about Artificial Intelligence for All. He informed about the key roles of AI and its integral involvement in human life. Artificial intelligence can dramatically improve the efficiencies of our workplaces and can augment the work humans can do. When AI takes over repetitive or dangerous tasks, it frees up the human workforce to do work they are better equipped for— tasks that involve creativity and empathy among others.



- Waqar Baig talked about scholarships. How students having low CGPA can apply for scholarships Waqar Baig directed the students towards the right path of getting a scholarship. Without assistance from an outside source, students may have trouble paying for the degree. Scholarships help students have more time to focus on their studies. He also had a little Q/A session with students to solve their queries in this regard.



- Ch Muhammed Yousuf (Regional Director, Superior Colleges) addressed Emotional Intelligence. How does the Will Power of a man make him worthy of society? Emotionally intelligent people are not only good at thinking about how other people might feel but they are also adept at understanding their feelings. People with a high degree of emotional intelligence know what they're feeling, what their emotions mean, and how these emotions can affect other people. Emotional intelligence is important at work so you can perceive, reason with, understand, and manage the emotions of yourself and others. Being able to handle emotions gives you the ability to guide and help people, and it can help you be happier and more successful.



- Day 1 concluded with award ceremony and Qawali Night. Mr. Kashif Bashir Vice Chair IEEE Lahore Section (Manager KICS-UET), Dr. Muhammad Gufran Chair IEEE Faisalabad Sub section (Chairman EE Fast Nu), Mir Muhammad Ali Khan Chairman, eCademy PVT Ltd and Dr Yasar Ayaz from NUST, Prof. Dr. Ali Qureshi, Chair IEEE Bahawalpur Subsection distributed the awards in awards ceremony.



DAY 2

- A panel discussion was held in which representatives of different IEEE divisions (CS, IAS, COMSOC, RAS, PES, WIE) leaders namely Mr. Salheen Bakhat, IEEE computer Society



Lahore Chapter, Mr. Syed Rizwan Naqvi, IAS Lahore Chapter, Ms Safoora Saleem, WIE Lahore Chapter, Mr. Kashif Bashir chair COMSOC Lahore chapter, Tanveer Bukhari, RAS Lahore Islamabad joint chapter, Dr. Aon Abbas, PES Lahore Chapter, Mr. Moiz young professional addressed the value of IEEE membership and provided information on how to access various research papers, journal articles, and experts from all around the globe via IEEE membership. There were a lot of fresh ideas and motivations for young people to join IEEE because of the variety of IEEE groups. Our audience really liked and eagerly engaged in the session, which is unusual for these sorts of group conversations.



- Mr. Zubair Gill (CEO, GoogleBiz) had a session with the enthusiastic audience about Microsoft Azure, He elaborated on the interesting features and attributes of Microsoft Azure. He also added that our future lies in learning everyday advancements in technology and programming languages. Mr. Zubair also highlighted the easiness of using Microsoft Azure.



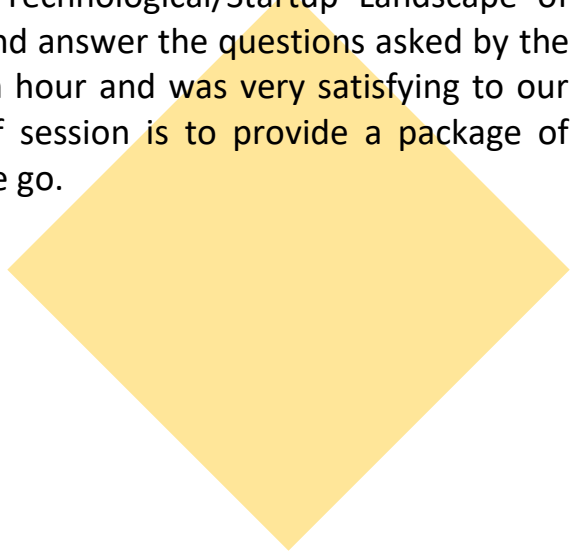
- Dr. Muhammad Gufran (Chair IEEE Faisalabad Sub Section) talked about the Rise of AI in IoT and how IOT over a decade transformed lives and will continue to do so very rapidly, Dr. Muhammad Gufran also discussed how AI and IoT are making our daily lives easier and faster. He in his session said that we can observe and even compare ourselves with our lives back in the 19's and we will find the differences that how IOT had, changed our living styles. IoT will have a drastic effect on waste management. With the seamless integration of light, heat, and air conditioning that reacts to you, a lot of money could be saved on those bills. For food, anything you don't eat in your fridge will be recorded so you can examine trends and patterns



- Then a Panel consisting of Mr. Farhan Tufail (CEO Invictus) Mr. Bilal (Director Startup Grind) Mr. Inaam Afzal (Chair, FCCI Startups) Mr.



Awais Zaidi (CEO Slick Starter) discussed “Technological/Startup Landscape of Faisalabad – Challenges and Way Forward” and answer the questions asked by the audience, this panel discussion went over an hour and was very satisfying to our audience. The main purpose of this type of session is to provide a package of different disciplines under one roof and in one go.



- Mr. Shajeel Afzal (CEO of LES Academy) explained multiple ways of Freelancing and how people tapped earnings through it and the scope of freelancing, He said that after the pandemic freelancing has become more popular because now most organizations have adopted the concept of work from home. But let's not confuse freelancing with work from home because freelancing makes you your own boss.



- Mr. Tamoor Pardesi (YouTube Freelancer) had an interesting interaction with the audience as more people are interested in making money on YouTube. Mr. Tamoor through his cheering way of delivering the session was very inspirational. He guided very few details of making money through YouTube and he also guided how we can increase our subscriptions by using other social media platforms. He also responded to many young YouTubers' questions. It helps us feel deeply connected to a cause and empowered with the knowledge to take action on issues we care about. YouTube is the place you can find an audience, join a community, and create impact, both online and off. People and organizations who are committed to driving positive social change belong here.



- The next Panel consists of Mr. Umair Ahmad (CEO, Beep Technologies) Mr. Inaam ul Haq Mansoor (Co-Founder EPTeck) Adeem Mirza (CEO DigiMaster & Amazon) Discussed ECommerce. The Panel also explained the ways



how Amazon provided an opportunity to a common people for their startups and introduce their products, E-commerce has now become a new world of buying and selling products ranging from needle to ship. Our panel highlighted the ideas and ways

of making new paths in this journey. Very small but technically critical steps are necessary to grow your business in this world of digital shops.

Closing Ceremony

- The closing Ceremony started with Fireside Chat with Dr. Aftab A. Maroof (Rector, FASTNUCES). He distributed many awards like Best Ambassador, Best student Participation, and many IEEE awards (At the end of two days congress lunch were given to participants) He also appreciated our chief guests for their valuable thoughts and time and also appraised the organizing team who had been working since the very first day. He said that organizing such a big event is not an easy task but we did it and we are looking forward to many more. All the best to the organizing team for future endeavors.



Awards

Award detail is as follows: IEEE Exemplary Student Branch Award won by Syeda Iqra from IEEE UCET IUB Student Branch, runner up of this award was Nimra Naeem from IEEE COMSATS University Islamabad, winner of Outstanding IEEE Student Branch Chapter Award was Moiz Ahmed (IEEE PES Student Branch Chapter UET Taxila), runner up was Syed Ashar Ali (IEEE SSUET Computer Society - Karachi Section), winner of the Outstanding IEEE Student Branch Counsellor Award was Dr. Asjad Amin - IEEE Lahore Section UCET IUB Student Branch, runner up for this award was Dr. Abi Waqas - MUET Jamshoro IEEE Karachi, winner of Outstanding IEEE Student Chapter Advisor Award was Engr. Aoun Muhammad - PES UCET IUB chapter, runner up was Anum Farooq - WIE UCET IUB, winner of Outstanding IEEE Student Volunteer Award was Owais Liaqat - IEEE UCET IUB student branch, runner up of this award was Bakhtawar Nawaal – UET-Taxila, winner of Outstanding IEEE WIE Affinity Group Award was IEEE UET SB WIE-Lahore Section and runner up was NFC Faisalabad, winner of Outstanding IEEE WIE Leadership Award was Safoora Saleem - IEEE Lahore Section and runner up for this award was Sundus - Advisor SSUET, winner of the Outstanding IEEE WIE Student Volunteer Award was Sumaiya Aziz - IEEE HIET and runner up for this award was Shifa Mansoor- IEEE UCET IUB. Outstanding IEEE Young Professional Leadership Award was Muhammad Aftab ur Rehman and runner up was Muhammad Arslan Shahid.

Sections and Sub-Sections' Meeting

The IEEE sections had a combined meeting at the same time as the conference sessions. The following issues were raised at this crucial gathering: In the future, a quarterly newsletter of the region will be created, a WhatsApp group of all student branch chairs throughout Pakistan will be created, Distinguished Lecture Programs will be implemented, and national and international awards for professional IEEE members will be suggested.

Mr. Muzammil from Islamabad section, Mr. Moiz Rehman Memon, Dr. Atif Fareed, Dr Muhammad Faisal, Mr. Somro and Ms Sadaf presents IEEE Karachi section. From Lahore section Mr. Kashif Bashir, Shahid Zulfiqar, Hamza Ihtsham, Mr.



Tanveer Bukhari, Dr. Waqar ul Qounan, Ms Safoora Saleem, Mr. M. Arslan Shahid, Mr. Rizwan Naqvi, Mr. Salheen Bakhat, Mr. Abdul Rehman attended the meeting.

Gallery: Awards Distribution



ICTN ASIA – Pakistan Tech Festival 2022

Event Date: March 16, 2022

Venue: Expo Centre, Lahore

The ITCN Asia exhibition, the biggest IT and telecom extravaganza in Pakistan, was organized with the joint efforts of the Institute of Electrical & Electronics Engineers (IEEE) Lahore Section and E-Commerce Gateway Pakistan (Pvt) Ltd (the first event management company in Pakistan that is registered as a member of UFI, the “International Association of Exhibition Organizers”, France) on 16th and 17th March 2022. More than 200 companies’ stalls were present from Government, Cloud, Data Center, Cybersecurity, ERP, Education, Banking & Finance, Health & Pharma, E-commerce, Artificial Intelligence, and Robotics. The team has also attended the networking dinner.



Mr. Kashif Bashir, Manager Training KICS UET Lahore, and vice chair IEEE Lahore Section have signed an MOU with an e-commerce gateway to provide support for the ITCN exhibition in Lahore. With the efforts of the IEEE Lahore Section, more than 1500 students from different universities participated in this exhibition mainly from the University of Lahore, University of Lahore, Shareef Engineering College of Technology, ITU, UCP, COMSAT, USA, UMT, Fast NU, etc.

Prof. Dr. Waqar Mahmood, Mr. Kashif Bashir, Shahid Zulfiqar, and Dr. Usman Ghani from Al-Khwarizmi Institute of Computer Science (KICS) UET Lahore attended Pakistan's largest IT Expo 20th ITCN Asia 2022 in Expo Center Lahore on 17 March 2022. KICS team was welcomed by Mr. Umair Nizam Vice president of E-Commerce gateway and a souvenir was presented to Prof. Dr. Waqar Mahmood.

A networking dinner was also organized in which more than 200 industry representatives of different companies attended and discussed the opportunities in the IT sector after COVID-19. KICS Team discusses the opportunities in the IT sector with CEO pasha group Badar

Khushnood. Mr. Kashif Bashir discusses the high-tech training at KICS UET Lahore and how IEEE can provide benefits to the software industry. Mr. Badar appreciates the work and is invited to collaborate.

Meeting with CEO Pasha Badar Khushnood, Mr. Kashif Bashir, Shahid Zulfiqar, Hamza Ihtisham



There was a side meeting that happened with Mr. Shahzaib Rathore, past chair IEEE Lahore section. Mr. Adnan Siddique, faculty member ITU and general secretary IEEE Lahore Section, Mr. Shahid Zulfiqar treasure IEEE Lahore section, Mr. Rizwan Naqvi, Membership development, and Mr. Tanveer Bukhari, member of IEEE robotics automation society discussed the opportunities and benefits in IEEE. Future events were discussed. IEEE Lahore Section delegation

with Mr. Shahzaib Rahore in the center along with Mr. Kashif Bashir, vice chair IEEE Lahore Section, Mr. Adnan Siddique, faculty member ITU and general secretary IEEE Lahore Section, Mr. Shahid Zulfiqar treasure IEEE Lahore section, Mr. Rizwan Naqvi, Membership development, Mr. Tanveer Bukhari, member IEEE robotics automation society.

Mr. Kashif Bashir also met Ms. Jahan Ara Former President of PASHA and CEO of Katalyst Labs. He discussed the importance of skill development courses for young students.



At the end of the event, Mr. Kashif received a souvenir from Organizer ITCN Asia Mr. Umair Nizam Vice president of E-Commerce gateway. The organizer thanked Mr. Kashif Bashir and the team for helping with this event. ITCN 2023 will again collaborate with IEEE Lahore Section.



The University of Lahore students' participation in ITCN Asia.



Superior University students' participation in ITCN Asia.





Sharif College of Engineering and Technology students' participation in ITCN Asia.



COMSAT and ITU students' participation in ITCN Asia.

Gallery



Lahore Section Delegates at ITCN Asia.



MOU Signing Group Photo.



Mr. Kashif Bashir is presenting IEEE badge to Abdul Wahab Director ABFA Technologies (Pvt) Limited.



Mr. Kashif Bashir is presenting IEEE badge to Dr. Gufran.



Mr. Kashif Bashir is presenting IEEE badge to Mr. Umair Nizam VICE President Ecommerce gateway.



Mr. Kashif Bashir is presenting IEEE badge to Sajjad Kirmani CEO Infogistic.

IEEE ComSoc Lahore Section

A summit on Artificial Intelligence in Information and Communication 2022

Event Date: May 19, 2022

Venue: UET Lahore

IEEE ComSoc Lahore Section has organized a summit on Artificial Intelligence in Information and Communication 2022 in collaboration with Al-Khwarizmi Institute of Computer Science, UET Lahore, Power & Energy Society (PES), and University of Faisalabad (TUF) on 19 May 2022, 10 AM-2 PM at KICS UET Lahore Seminar Hall. 70 Students participated in the event physically while more than 200 joined online via social media. There was no registration fee for this event.



The event started with the recitation of the Holy Quran by Mr. Dawood Khalid. Followed by National Anthem.

Ms. Amna Mir was the event moderator. Ms. Amna called Prof. Dr. Waqar Mahmood for a welcome message. He is currently serving as Sultan Qaboos IT Chair at UET, Lahore. In addition, he is the Director of Al-Khwarizmi Institute of Computer Science (KICS) - a center of excellence for ICT research and development in UET, Lahore. He talked about the opportunities for students in research. He also shared the projects completed at KICS UET Lahore. Secondly, Mr. Kashif Bashir, Chair of IEEE



COMSOC Lahore Chapter came on stage. Mr. Kashif Bashir is the Chair of the IEEE Communication Society and Vice-chair of the IEEE Lahore Section. He talked about the IEEE organization and the benefits of students in joining the IEEE and COMSOC chapter. He also announced COMSOC student competition details and the importance of Artificial Intelligence to the participants.

The third speaker was Dr. Wajahat Qazi from COMSATS Lahore. He shared his research work on AI. He also told students about the importance of AI in the Future of Information and Communication. The fourth speaker of the summit was Prof. Dr.



Muhammad Usman Ghani Khan from UET Lahore. He talked about the projects his team working on under the AI center. He showed real-time video experiments and implementation of Artificial intelligence in crowded



management, data science & information technology. The fifth speaker of the summit was Mr. Mazhar Javed from UMT Lahore. He talked about Artificial Intelligence in Business Applications. How businesses are using AI in their daily work and getting the best results.

All e-commerce organizations are using AI to boost their business. He also shared real-time coding from his research and showed the results of using AI in business. The sixth



speaker of the summit was Dr. Yasir Niaz from the University of Lahore. He is doing research in the area of agriculture and citrus production. He shared his work on the detection of different diseases in plants by using affordable drones. His team is working to boost the agriculture sector in Pakistan. He urged students to work in this area as Pakistan is mainly dependent on its agriculture.



The seventh speaker of the AI summit was Prof. Dr. Adnan Abid from Virtual University Pakistan. He talked about “Artificial Intelligence for Machine Translation- (Sign Language Translation). He shared his research work with students and showed them sign language. He also showed the importance of AI in NLP technology. How students can start their work on NLP and software used to improve the programming in sign language interpretation.



The eighth speaker of the event was Mr. Lie Wing from Huawei talked about the opportunities for students in networking and cloud computing. He also shared Huawei's business model and presence worldwide. He encourages students to avail the free Huawei certification which is for a limited time. The ninth speaker of the session was Mr. Farhan Ali from Huawei Pakistan. He also told the audience about the advancements in AI technology and its commercial application in the IT industry. He also shared the statistics that by 2025 More than 97% of the industry will be using cloud services in their organizations. He also offered free Huawei cloud certification to the audience. At last Mr. Rehman (on behalf of Dr. Majid Hussain) came on stage and shared his experience regarding the event. Mr. Kashif Bashir distributed the shield among guests and speakers. Names are Mr. Kashif Bashir, Dr. Wajahat Qazi, Prof. Dr. Muhammad Usman Ghani Khan, Mr. Mazhar Javed, Dr. Yasir Niaz, Prof. Dr. Adnan Abid, Mr. Farhan Ali, Mr. Lie Weing, Amna Mir, Muhammad Hamza Ihshtiam, Rizwan Naqvi, Shahid Zulfiqar, Ali Yasin, Husnain, Muhammad Sajawal, M Rehman, M Mubeen. A group Photo was taken after the event.



IEEE Women in Engineering Lahore Section

Tech Tehwar 2.0

Objective: Making trending technology stacks accessible for anyone to celebrate the technology trends with tech enthusiasts.

Description: The WIE (Women in Engineering) Section in collaboration with Microsoft Learn Student Ambassadors (MLSA) Lahore community and multiple other tech communities organized Tech 2.0 تہوار at COLABS on March 12 (Virtual) and **March 19, 2022** (On-Site). The event was focused on making trending technology stacks accessible to all and celebrating the technology trends with fellow tech enthusiasts.



Several collaborators assisted in orchestrating the event, including Sections & Subsections), Microsoft Learn Student Ambassadors, GDSC GC University Lahore, TECHUB, GDSC FAST Islamabad, HMU Host, IET On Campus UET KSK, UET ACM Student Chapter, Zivallo, GDSC Comsats University Abbottabad, Digicon Valley, Hack Club MUET SZAB, Hult Prize Fatima Jinnah Women University, Human Care Foundation, Code Movement Pakistan, MSAC PUCIT, AWS Community Pakistan, GDSC Bahria University Lahore Campus, Pakistan Society of Industrial Engineers, Puzzle Solution, Skinpro, Vertix IT Sol, Xperiteq, MLSA Fatima Jinnah Women University BWP, HMU Training, Devsinc, DevWeekends, Sunlo Community, Dekhlu Community, COLABS, Think CONNECTS, STUCK and Computer Science Society GCU Lahore.

The online session was characterized by multiple talks from various professionals, such as Mr. Arsalan Khatak (Technical Program Associates-MLH), who presented on “Getting Started with Open Source”. Additionally, Mr. Ahsan Ayaz (Software Architect-Syncron) discussed “Surprising Tool to bridge the gap between Devs and QAs”, Mr. Adil Shehzad (MCT & Devops Engineer) presented on “Automating AWS infrastructure using Terraform and GitHub Actions,” and Mr. Saad Hassan (Full Stack Blockchain Engineer – Geek21.to) elaborated on Blockchain & Web 3.0.

During the on-site session, Mr. Rehmat Qadir (Sr. Director of Engineering at Devsinc) talked about planning a career as a developer, and Mr. Ahsan Ellahi (Director of Engineering at Devsinc) discussed career building according to the current tech industry. The On-Site



session also had a panel discussion on “Immersing into the Tech-perineurial and Community Ecosystem” in which Ms. Maria Sadaf (Ecosystem & Partnership Expert), Ms. Saba Kalsoom (Ecosystem and Partnerships Lead at COLABS), Mr. Usman Aslam (Lead Coordinator at COLABS), Mr. Fahad Ashiq (MCT & Mentor at MLSA Lahore), and Mr. Saad Aslam (Software Engineer i2c) were the key speakers.

Giveaways:

- 5 gift hampers from Devsinc
- 3 JetBrains Licenses
- 2 Linux Silver Hosting Plans
- Special 50% Discount on all Hosting Plans
- GitHub Swags
- 10 Pedawar Jaggery Boxes

Gallery



The Web Summit 3.0

The WIE (Women in Engineering) Section in collaboration with COLABS and Binance organized The Web Summit 3.0 at COLABS on **June 5, 2022**. It was Pakistan's First-ever in-person conference with Binance. Binance is the largest crypto exchange by trade volume and one of the fastest in the world.

About this Programme

Web 3.0 is the next evolution of the Internet, and it's coming in a big way. This isn't something that will happen in the distant future rather it has already begun to roll out and will be fully established in upcoming years. In the wake of this evolution, we at COLABS with our ecosystem empowering initiative COGROW aim

to equip our community with the latest technologies and The Web 3.0 Summit is in line with this goal.

This event focused on the future of crypto and how blockchain technologies helped to improve the adaption of cryptocurrencies, with a thorough analysis of how well other verticals of crypto like De-Fi, NFTs, Leveraged, and Swap Tokens will do in the future. The conference aimed to further the understanding of what's happening in the blockchain space while helping them gain insight into this emerging industry.

Several collaborators assisted in orchestrating the conference, including Blockship, Stack Pakistan, Deaf to Tawk, Epiphany, Google Developer Groups Islamabad, Stacks Pakistan, Microsoft Learn Student Ambassadors - Islamabad, Microsoft Learn Student Ambassadors - Lahore and Think Connects.



This conference was sponsored by Xord, Bookme.pk, CEO Times and WIE Lahore section. There were two chat sessions, five keynote sessions, five panel discussions, and a workshop in the summit. There were 200 IEEE members and 77 non-IEEE members who participated.

Impact on Community

- Featured a series of keynote sessions and interactive discussions by some of the most well-known pioneers of Web 3.0, which helped students to learn about this technology in more depth. They directly interacted with speakers and panelists
- The students were thrust into a professional network where they had the opportunity to meet, learn from, and even collaborate with major industry players, developers, designers, investors, and pioneers in crypto or blockchain.
- The participants were able to claim their NFTs.

Giveaways

- Goodie Bags were given by WIE IEEE Lahore
- Free chocolate shakes and pizza
- AWS Swags



IEEE UOL Student Branch

An IEEE YP Funded Seminar Modern Trends to Regulate the Output Frequency through Power Electronic Converters

Event Date: May 18, 2022

Venue: The University of Lahore

IEEE UOL Student Branch in collaboration with the Department of Electrical Engineering, The University of Lahore.

The goal was to increase the familiarity with the single-phase frequency controller. The objective was to study the evolution of the single-phase frequency controller for various applications.

The seminar was useful for students and young researchers as they would be able to familiar with the development of the single-phase frequency controller. The harmonic analysis of the output voltage would help them to examine its power quality.

Opening Ceremony

The ceremony started with the recitation of the Holy Quran and then the National Anthem of Pakistan. The host welcomed the guests

- Prof. Dr. Amjad Hussain (Chair, IEEE Lahore Section)
- Hamza Ihtisham (SAC Chair, IEEE Lahore Section)
- Safoora Saleem (WIE Chair, IEEE Lahore Section)
- Syed Rizwan (IAS, IEEE Lahore Section)
- Dr. Ghulam Abbas (Head and Associate Professor, EE UOL)



A speech was given by Prof. Dr. Amjad Hussain. He thanked the organizers for inviting him. He then briefed about IEEE and its history.

The Seminar & the Contests

Speaker: Dr. Naveed Ashraf (Assistant Professor, EE UOL) delivered the first part of the seminar. Muhammad Arslan Shahid (Lecturer, EE and Branch Counselor, IEEE UOL Student Branch, The University of Lahore) conducted the first contest. After that, the speaker: Dr. Naveed Ashraf (Assistant Professor, EE UOL) delivered the second part of the seminar. Then Muhammad Arslan Shahid conducted the second contest.

After that, a Lucky Draw was conducted by Ms. Saba Mahmood (Lecturer, EE and Adviser of Women in Engineering, IEEE UOL Student Branch, The University of Lahore).

Closing Ceremony

The host welcomed the guest of honor Prof. Dr. Asrar ul Haq Sheikh (Pro-Rector, Engineering and Technology, UOL and IEEE Life Fellow). The host then welcomed the chief guest Mr. Uzair Raof (Deputy Chairman BOG, UOL)

A speech was given by Prof. Dr. Asrar ul Haq Sheikh. He congratulated Mr. Muhammad Arslan Shahid on winning funding from IEEE Young Professionals under the category of Local Activity Funding for this event. He also shared his views about the organization of this technical seminar.

Prizes (A total of PKR 10,000 Cash along with the goodies) were the distributed to the Contest winners by the chief guest

- Contest 1 Winners: Abdur Rehman and Awais (Lecturers, EE UOL)
- Contest 1 Runner Up: Abdul Wahab (Student of EE, UOL)
- Contest 2 Winner: Muaz Saeed (Student of EE, UOL)
- Contest 2 Runner Up: Minahil Sohail (Student of DPT, UOL)



A Souvenir was presented to the guest of honors by the chief guest.

Guest of honors was:

- Prof. Dr. Amjad Hussain (Chair, IEEE Lahore Section)
- Prof. Dr. Asrar ul Haq Sheikh (Pro-Rector, Engineering, and Technology, UOL)
- Hamza Ihtisham (SAC Chair, IEEE Lahore Section)
- Safoora Saleem (WIE Chair, IEEE Lahore Section)
- Syed Rizwan (IAS, IEEE Lahore Section)
- Dr. Ghulam Abbas (Head and Associate Professor, EE UOL)
- Qasim Ihsan (Club & Societies, UOL)



A Souvenir was presented to the Speaker by the chief guest. A Souvenir was presented to the Organizing team by the chief guest. A Souvenir was presented to the chief guest by Prof. Dr. Asrar ul Haq Sheikh. In the end, a group photo was taken.

The audience was entertained by an entertainment Session at the last.

More than 200+ people attended the event.

Summary of his talk:

Explored the evolution process of the single-phase frequency controller for various applications like electric traction systems, grinding mills, and induction heating systems. The characteristics of the direct AC-to-AC frequency controller were compared with the indirect AC-to-AC converter to explore their potency to use in various fields. Operational features of some latest single-phase frequency controllers were explored. One converter for frequency step down and one for frequency step-up operation was selected for a demonstration that how they can be realized in a computer simulation-based environment. The power quality analysis of the output voltage for various frequency operations was also carried out with the help of an analytical pulse selective approach that would help the participant to apply some other non-sinusoidal period waveforms to determine their harmonic contents. The practical constraints and generation of control signals for real-time application were also discussed. In short, this talk provided a platform for young researchers and students to explore the analysis and realization of the switching converters.

IEEE ITU Student Branch

IEEEXtreme 15.0 Winners

IEEEXtreme is a global 24 hours coding competition hosted annually by IEEE. IEEE is the world's largest technical professional organization dedicated to advancing technology for the benefit of humanity

IEEE ITU Student's Participation:

IEEE ITU student branch participated in the IEEEXtreme 15.0 programming competition. IEEE student members at ITU had bagged the top three national positions in IEEEXtreme 15.0 programming competition. ITU bagged the top three national positions in the previous competition as well. Due to their best performance and consecutively winning two competitions, ITU has improved its global rank considerably. IEEE ITU student team has been ranked 222, 274, and 761 in IEEEXtreme15.0 and was ranked 798, 1234, and 1264 in IEEEXtreme14.

IEEE ITU Student Branch Achievements:

IEEE ITU student members had achieved the top three national positions in IEEEXtreme 15.0 programming competitions.

Team CNTRLFREAKS:

Umair Aamir Butt from the Department of Electrical Engineering and Shuja Mehmood from the Department of Computer Science secured 1st position in IEEEXtreme 15.0 programming competition all over Pakistan.



Team BEAUTIFUL MINDS: Fatima Nazir, Ahmad Bashir, and Muhammad Affan from the Department of Computer Science secured 2nd position in IEEEXtreme 15.0 Programming Competition all over Pakistan.



Team PYTECHTICKS:

Muhammad Faizan Khan and Rafay Aamir from the Department of Electrical Engineering and Ruhail Zubair from the Department of Computer Engineering secured 3rd position in IEEEXtreme 15.0 Programming Competition all over Pakistan



Understanding Research Methods



Author: Muhammad Hamza Ihtisham
Member IEEE

After getting admission to a university, the first thing student think about is innovation and then future security. To secure a better future in terms of a Job or Business you need a strong idea of your final year project. The process of selection of a final year project is not that simple; to develop an extraordinary Final year Project you need to consider the following aspects of your field interest.

- Find the social problem or create a question in your mind to find the answer.
- Calculate the impact of your project after five years, either a business idea or a research-based project.
- Sustainability of your project.
- Humanitarian Aspect of your project.

After selecting the project, you need to define a sophisticated timeline or road map to complete and test your project at least 1 month before time.

The biggest opportunity to initiate your professional life always comes with the exhibition and interpretation of your project in some exhibition or interview or some international platform. Most students got their job based on their final year project; most students got a scholarship and many students transform that project into a complete business model. Therefore, the game of your professional career is much based on your final year project exhibition. Always use strong technical words while exhibiting the project or describing your project in some interview.

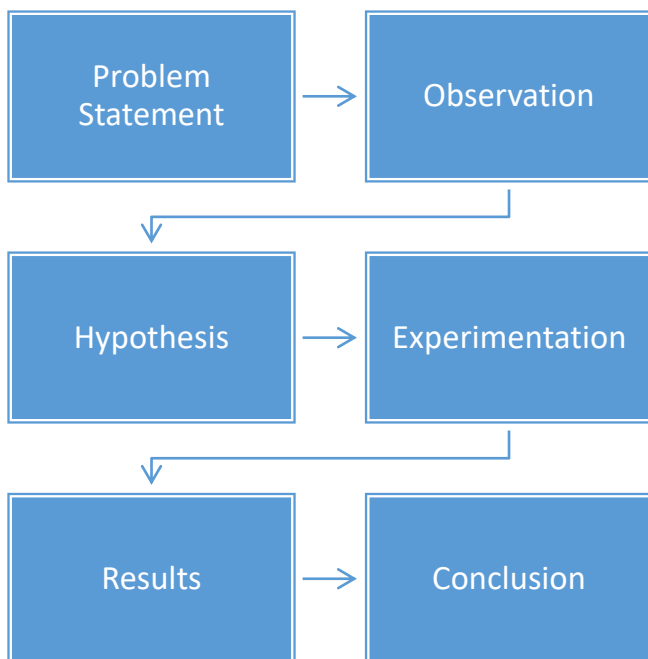
This is an era of competition, if you want to compete yourself with the students of the world top ranked universities you need a strong document endorsed by the experts in that field. This document is usually known as a research paper. A research paper is a document of research on a particular topic or project. A research paper requires you to form an opinion on a topic and assertions with facts found through your research. There is a different kind of research papers.

- Analytical
- Argumentative
- Definition Paper

- Compare and Contrast
- Cause and Effect Paper
- Interpretative Paper
- Experimental Research
- Survey Research

Engineers and scientists used to write Experimental Research papers aimed to explain a certain outcome or phenomenon with certain actions and their reactions. You need to describe your experiment with supporting data and then analyze it sufficiently.

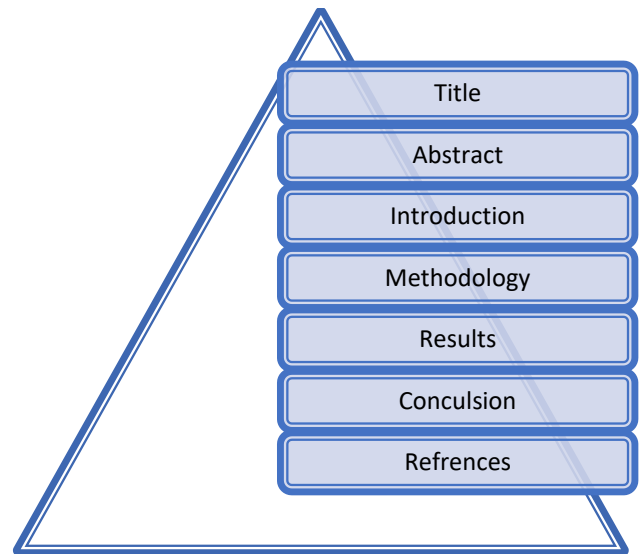
Now, the question arises of how we can write an effective research paper in a compact interval of time. Scientific research is all based on the scientific methods that we used and studied in school.



In every technical research or project write-up, all you need is to find the answers to these blocks. After getting the answers

to all these blocks, we write in research paper with the following points.

- Title
- Abstract
- Introduction
- Methodology
- Results
- Conclusion
- References



In the pyramid, there are three content variables, Dependent, Independent, and Support. Independent, there are two parameters Title and Abstract. This Title and Abstract completely depend on the Independent content parameter. The independent content is that one you have to discover with your experimental and analytical skills. Now the new question is

How do fill up these content variables?

I have a pro-tip for you, write down all possible “WH” questions related to your project on a paper and just write down their answers on the word processing tool. Let's discuss the parameters one by one.

Title

This dependent parameter is the trademark of your research document based on your research or project. The title should be unique and concise.

Abstract

The abstract is another dependent parameter, which is a complete extract of all of your research. People usually write abstracts in the last. However, I recommend you outline the Abstract in the beginning; it will help you to be concise and organized. Then after writing a complete paper make it, more mature and technically sound.

Introduction

This is the first independent parameter of your research paper that holds the Background Information of your project. To absorb that information you need to read and understand different research papers according to your field. You can easily access them using Google Scholar. These research papers will help you to write a well-described Introduction and history of your project. The following things must need to be part of a good Introduction.

- Background Information of your project.
- Describe your Problem Statement
- Why you are addressing this specific problem?
- Problem Relevant History.
- Algorithms and Tools used in previous research.

- Small comparison of Algorithms and tools based on your technical understanding.
- Your Project Hypothesis.
- The hypothesis clearly stated your target.
- Brief Introduction of your project.
- Start with supporting topics

Methodology

This is the most important part of your research paper. The methodology is like the backbone of the research document; all essential things are linked with this part. You have to describe this part with your extraordinary skills. The following things consolidate your methodologies. I recommend you split your Methodology part

1. Overview

In this part, describe a brief overview of your project. Split your project into two sub-headings based upon the modes, classes, or types. Then describe each mode, class, or type in different paragraphs. The overview of the project must contain the project's final product images with proper captions and headings.

2. Project Design

The core, the major portion of your complete technical document and research is the project design. The best way to describe your design is to draw a Block Diagram of the complete project and define it into small portions e.g., Mechanical part, Electronic Part, Software Part, Web-Interface Part, IOT Part, etc. Then describe each block with the help of

flow charts to support your algorithm and figures with proper captions. Description of each block is mandatory; you can split a block into further sub-blocks for a better approach.

3. Major Processes

In the last of your methodology portion describe the major processes you used in your project and consolidate your argument with the “WH” question. Major processes may be Image Processing, Signal Processing, Power Transmission, Machine Learning e.t.c. You must have to explain this process in a very concise and technical manner. Only this process will give the essence of novelty in your project so choose your words wisely and try to give more information in a few words. You must explain how this process(es) helps you to finish this project. Use a Flow chart to express your process.

Results

Results play a major key role to support your hypothesis. You have to express those results in very simple and attractive manners. Add development time and small cost/power analysis as well. It would be great if you can add life to your project. Use tables and figures to express your results. Also, explain why your results are better and how they will add impact on your hypothesis. The best method of verifying results is a calculation of Efficiency. Must add the efficiency of your result compared with other results.

Conclusion

This is the final independent part of the paper; the conclusion is like the final verdict from your side to support your research. You have to describe your hypothesis, explain the results and discuss how these results verified your hypothesis. Try to add the impact of your project on your country and the problem you are developing this project for. It would be more appropriate if you add small comparisons of your results with the previous researcher’s results. In the end, you have to add some positive remarks about your project for future aspects.

References

This is the supportive content variable, which supports the facts of all content. There are different kinds of references researchers used while writing research content e.g., Chicago, APA, ISO, MLA, IEEE, ISO, etc. We, engineers, use the IEEE style to add our references to our research content.

Test your Research Skills

- What is research and what makes a Good Research Project?

- What are your Planning and Management skills for Research?

- How do you know you have been a good researcher at the end of project?



Losing Blue Skies – A Report on the Air pollution Crisis in the Metropolitan City of Lahore



Author 1: Dr. Muhammad Adnan Siddique
Member IEEE



Author 2: Ehtasham Naseer
Graduate Student Member IEEE

Lahore is the capital city of Punjab province and the second largest city in Pakistan. The city enjoys good business and educational facilities, attracting people from other regions of Pakistan. The urban population has increased exponentially in this area, especially over the past few decades. Facilities necessary for socio-economic life, like transportation and business centers, have therefore increased tremendously as well. The city's environment has taken a heavy toll. Consequently, the air pollution level has elevated way ahead of the safe limits leading to an increased burden of air pollution-related diseases. There has been an increase in the emissions from brick kilns, burning of petroleum products for combustion processes in industries as well as motorized vehicles, and crop residues. The

situation becomes even worse when the air pollutants get suspended in the lower boundary of the atmosphere in the winter months and form a dense blanket of haze, called smog. The city has experienced many episodes of smog since 2011, which has resulted in deleterious effects on public health. Primary schools have been shut down several times during previous winters to safeguard school-going children from excessive exposure to smog. This has resulted in adversely affecting educational activities as well.

Smog is the mixture of many dangerous air pollutants, where particulate matter 2.5 (PM_{2.5}) shares the major portion. Having a size of fewer than 2.5 microns, it tends to penetrate deep into the lungs and enter the

bloodstream. According to World Health Organization (WHO) guidelines, the annual mean concentration of PM_{2.5} should be less than 5 µg/m³ while the 24-hour mean concentration should be less than 15 µg/m³. However, most developing countries are suffering from a very high concentration of PM_{2.5} as compared to recommended values. Therefore, WHO has defined four intermediate levels to gradually control the concentration of PM_{2.5}. According to these guidelines, the first target is 75 µg/m³ for a 24-hour average and 35 µg/m³ for an annual average.

the annual mean concentration values of 103.42 µg/m³, 70.82 µg/m³, and 89.64 µg/m³ are recorded for the years 2019, 2020, and 2021 respectively. These values are 17 times (on average) more than the recommended annual mean value i.e. 5 µg/m³. This alarming situation demands a long-term emission control policy so that the citizen can breathe in a clean environment without any fear and enjoy the blue skies once more.

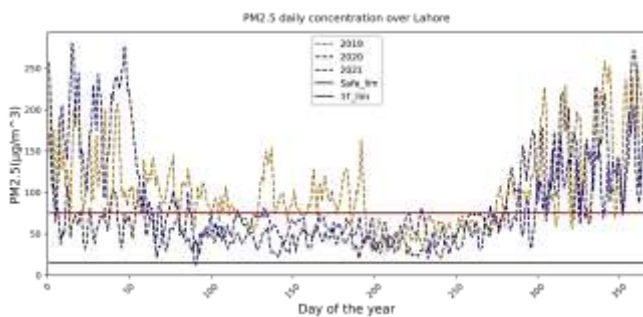
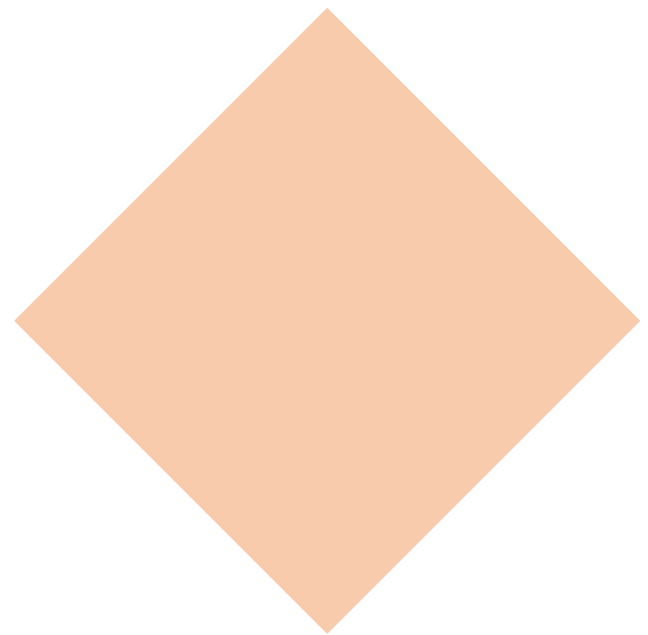


Figure 1: 24-hour average concentration of PM_{2.5} over the metropolitan city of Lahore

In Figure 1, the 24-hour average concentration of PM_{2.5} is plotted for the last three years i.e. 2019, 2020, and 2021. The data has been derived from the U.S. Embassy and Consulate’s air quality monitoring station, installed in Lahore and Copernicus Atmosphere Monitoring Service (CAMS). The green and red lines indicate the safe limit and first target (1T) value (suggested by WHO to gradually control the concentration of PM_{2.5}) respectively. This time series analysis indicates that the 24-hour average concentration remains high even from the first stage target value i.e. 75 µg/m³. The severity of the situation can also be observed in the winter season when the PM_{2.5} value touches approximately 300 µg/m³. Similarly,



Internet of Things and Internet of Medical Things (Everything thing that can be automated will be automated)



Author: Muhammad Arslan Shahid
Member IEEE

Internet of Things (IoT) is a platform that bridges to connect the physical world with cyberspace and has a multi-disciplinary approach which led to various fields revolutionizing many aspects in them.

One of the fields where IoT has been phenomenal is traditional healthcare paradigms. The Healthcare industry is employed with the emerged service of IoT and Sensor Networks to improve the performance and quality, thus providing high value to patients. During the time when COVID was at its peak, IoT has been employed in various applications to provide contactless help and services. Researchers and Engineers called it “When IoT meets e-Health.”

e-Health in the field of healthcare has offered improvement in the prevention, treatment, and related information management of diseases. IoT provides intelligent transportation, public safety, and healthcare monitoring, and here emerges the Internet of Medical Things (IoMT) which is widely applied to provide personalized healthcare monitoring for users.

Keeping in view the challenges during the COVID-19 pandemic several outcomes have been reported as a result of research and experimentation. Self-tuned IoT-based quadcopters have been designed and launched to provide personalized services for users. Special healthcare vehicles have been introduced which are also based on IoT. Learning-based Task Migration with Bargaining Strategy is being used in the IoT for e-Health applications. IoT-based contact tracing using blockchain is introduced which has helped to build information management systems.

The patients diagnosed with some disease had to stay under care in the hospital during the treatment which led to an increase in the cost and the fact many of the patients do not have access to such facilities in rural and remote areas.

With the advancement in technology and with the help of IoT, diagnosis and treatment have become efficient which has also led to increasing the operational efficiency of the healthcare industry. Various devices such as smartwatches and other miniaturized devices have been developed for health monitoring.

Hospital-centric healthcare system has been transformed into a patient-centric system to a significant extent. IoT has been a major contributor to remote and global communication wirelessly and e-Health is one of the successful examples we see nowadays.

Issues involved in IoT for e-Health include privacy of patient data, the digital divide, the role of government and other stakeholders, behavior, and adoption by medical doctors and hospitals. However, during and after the COVID-19 crisis IoT has a hype growth in the e-Health sector. COVID-19 infected patients' data have been monitored to determine the relevant information and hence its treatment. IoT has maximized the knowledge of diseases and treatments among people.

It's the beginning of machines taking over the world. After refrigerators, watches, speakers air-conditioners, etc., now e-Health is the breakthrough of the modern world.

If you think the internet has changed your life, think again. The Internet of Things is about to change it all over again!

Awards & Achievements

IEEE Lahore Section, Technical Chapters, Affinity Groups, Student Branches, Volunteers

- ▶ IEEE UCET-IUB won **\$600 FUNDING BY IEEE YP LOCAL ACTIVITY.**
- ▶ IEEE UCET-IUB won **"\$400 BY IEEE REGION 10 SAC MDLT FUND FOR "LEADING MY BRANCH TO SUCCESS"**
- ▶ IEEE UCET-IUB won **"\$500 YP STEP FUNDING - "ARE TOP GRADES ENOUGH FOR CAREER?"**
- ▶ IEEE COMSOC Student Competition
 - Ms. Alina Munir, University of Engineering and Technology won COMSOC Honory Mention on her project **"DIAGNOSIS OF SPECIFIC PHOBIC ANXIETY DISORDERS USING VIRTUAL REALITY ENVIRONMENT"**.
 - Mr. Fahad Tanveer, University of Engineering and Technology won COMSOC Honory Mention on his project **"LIVE RADAR"**.
- ▶ Mr. Muhammad Arslan Shahid won **\$693 FUNDING BY IEEE YP LOCAL ACTIVITY.**
- ▶ Ms. Rida Zaniab and Saher Afshan won 4th Prize Globally in **IEEE IAS CMD HUMANITARIAN CONTEST 2021.**
- ▶ Mr. Muhammad Hamza Ihtisham won **MGA IEEE YOUNG PROFESSIONAL ACHIEVEMENT AWARDS 2021.**
- ▶ Mr. Muhammad Hamza Ihtisham won **IEEE IAS OUTSTANDING YOUNG MEMBER SERVICE AWARD 2021.**
- ▶ Mr. Muhammad Hamza Ihtisham serving as **IEEE YP EMB GLOBAL COMMITTEE.**
- ▶ Mr. Muhammad Hamza Ihtisham serving as **IEEE IAS CMD EVALUATION COMMITTEE MEMBER.**
- ▶ Mr. Syed Tanveer Shah Bukhari selected in **IEEE ROBOTICS AND AUTOMATION SOCIETY (RAS) DEVELOPING COUNTRY FACULTY ENGAGEMENT PROGRAM 2020**
- ▶ University of South Asia Student Branch won **\$300 FOR THE PROPOSAL SUBMITTED UNDER IEEE R-10 EAC's Call for Proposal For "Reaching Local Initiatives.**
- ▶ IEEE UCET-IUB won **"IEEE REGIONAL EXEMPLARY STUDENT BRANCH AWARD 2021"**
- ▶ IEEE UCET-IUB won **"IEEE R10 STUDENT BRANCH OF THE MONTH - JULY 2021"**
- ▶ 2021, proposal of the project **"AWARENESS ON SOCIAL DISTANCING ALERT AND SYSTEM IMPLEMENTATION DURING COVID'19"** in response to the IEEE Region 10 & IEEE HAC Special Call for Proposals: Addressing Local Needs During COVID Time, has been accepted the funding \$450.



INTERNATIONAL CONFERENCE ON EMERGING TRENDS IN ELECTRICAL, CONTROL, AND TELECOMMUNICATION ENGINEERING (ELECTE)

www.electe.uol.edu.pk | Hybrid Mode

2-4
DECEMBER 2022

The University of **Lahore**
Lahore, **Pakistan**

Call for Papers

Department of Electrical Engineering, The University of Lahore, Pakistan is going to organize the “International Conference on Emerging Trends in Electrical, Control, and Telecommunication Engineering (ELECTE’22)” on 02-04 December 2022, at The University of Lahore, Lahore, Pakistan.

The purpose of the conference is to provide an international forum for cross-fertilization of ideas from academia representatives, researchers, practicing engineers, students, industrialists, scientists, professionals, policymakers, investors, and other parties in areas related to electrical, electronics, and telecommunication engineering in particular, and allied fields in general. The conference gathers people from all around the world to share and discuss on a wide spectrum of ground-breaking and advanced technologies in the field of electrical, control, and telecommunication engineering.

Paper Submission Deadline	Aug 30, 2022
Notification of Decision	Sept 30, 2022
Camera Ready Version Deadline	Oct 30, 2022

Topics

- Electrical Energy System
- Electronic Devices, Circuit Design and Applications
- Communication Theory and Systems
- Computing and Intelligent Systems
- Digital Signal Processing
- Network and Distributed Systems
- Security and Privacy
- Emerging Engineering and Technology Trends
- Sustainable Development, Environment & Society

For sub-topics visit the website

Prospective authors are invited to electronically submit regular papers of their work in English language before the deadline. For further details, visit the website.

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Organizers



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Scan to Visit the Website

International Conference on Open Source Systems and Technologies 14th-15th December, 2022

16th IEEE ICOSST 2022

Hybrid: In-Person and Virtual Conference

Introduction

Open-Source Software (OSS) is an established cross-disciplinary paradigm for distributed enterprise computing and e-Government. It is helping organizations both public and private to keep control on the cost of development and deployment. OSS has not only changed the way software applications are architected, deployed, and consumed but also they are engineered to provide large distributed cross-platforms and frameworks. ICOSST 2022 will be held as a hybrid event. Presenters may choose to present their papers in person in UET Lahore and/or virtually. Presenters must provide their choice of presentation format after their papers have been accepted.

Al-Khwarizmi Institute of Computer Science, UET, Lahore, Pakistan in Technical Co-sponsorship with Lahore IEEE Computer & Communication Societies, Lahore Section, (R10), Pakistan are organizing a two-day event to invite researchers and practitioners from across the world to share their ideas and experiences related to the state-of-the-art and the future of Open Source systems and technologies, software applications, databases, networks, information security, OSS and social innovation, embedded computing, Internet of Things, next generation web technologies, cloud computing, virtualization, AI for knowledge discovery, automation, Diagnosis, Treatment, Prevention, Evolution, Control and Prediction etc. ICOSST will create a scientific venue where participants can share ideas, strategies, and policies for tackling the development, research and adaptation challenges related to open-source tools and open-source development environments for their customized requirements majorly in following areas.

Call for Papers

Last date of Article Submission is 31 August 2022

SOFTWARE & SYSTEM

- ✓ Blockchain technology
- ✓ Remote sensing
- ✓ Software engineering
- ✓ Distributive Databases
- ✓ Geographical Information Systems
- ✓ Data warehousing
- ✓ Data Mining and Statistical Analysis
- ✓ Open source Software for Business Intelligence and Strategy
- ✓ Open source Data
- ✓ Open source Education
- ✓ Web Tools and Technologies
- ✓ Human-Computer Interaction Virtual Reality
- ✓ Games and Entertainment

CLOUD COMPUTING & BIG DATA

- ✓ Big data models, theories, algorithms, approaches, solutions
- ✓ Big data retrieval, processing, analysis, and analytics
- ✓ Big data maintenance, management, and operations
- ✓ Big data for social networks
- ✓ Mobile processing of big data
- ✓ Cloud Networking
- ✓ Cloud management, orchestration and automation
- ✓ Cloud resource management and optimization
- ✓ Mobile networking and computing for cloud and fog/edge computing
- ✓ Mobile networking and computing for cloud

ARTIFICIAL INTELLIGENCE

- ✓ Artificial Neural Networks
- ✓ Deep Artificial Neural Networks, Convolutional Neural Networks
- ✓ Explainable AI
- ✓ Machine learning, Deep learning
- ✓ Computer Vision
- ✓ Speech Processing
- ✓ Image Processing, Document Image
- ✓ Processing, Optical Character Recognition
- ✓ Natural Language Processing
- ✓ Data Mining
- ✓ Big Data Analytics
- ✓ Robotics and Automation, Multi-agent Systems

NETWORK SECURITY & IoT

- ✓ Green Communications Systems and Networks
- ✓ Communication & Information Systems Security
- ✓ Cloud & Fog/Edge Computing, Networking and Storage
- ✓ Ad-hoc and Sensor Networks
- ✓ Next Generation Infrastructure and communication protocols for IoT
- ✓ Cloud Computing and Big Data for IoT
- ✓ Artificial Intelligence algorithms for resource constrained IoT devices
- ✓ Blockchain in IoT Standards and Application Scenarios

IMPORTANT DATES

CONFERENCE DATES

14-15 December, 2022
Wednesday-Thursday



SUBMISSION DEADLINE
31 August, 2022



ACCEPTANCE NOTIFICATION:
1st November, 2022



CAMERA READY SUBMISSION
15th November, 2022

CONTACT

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ICEEST-2022 Virtual

International Conference on Electrical Engineering and Sustainable Technologies
Green World with Electrical Engineering

2nd Call for Papers

14-15 Dec. 2022
Lahore Pakistan

Call for Papers

The International Conference on Electrical Engineering and Sustainable Technologies (ICEEST) [ONLINE] will be held at the Department of Electrical Engineering, University of Engineering and Technology, Lahore (New Campus), during 14-15 December 2022. The purpose of the conference is to provide an international forum for cross-fertilization of ideas from academic researchers, practicing engineers and industry representatives in areas related to Electrical Engineering and allied fields in general. The conference will include presentations of technical papers and keynote talks on issues of contemporary significance in Electrical Systems, Renewable Energy Systems, Signal Processing, Artificial Intelligence, Control Theory, Sustainable Technologies, and other areas of Electrical Engineering. The IEEE is technically cosponsoring ICEEST 2022. We wish you all to participate in the IEEE ICEEST 2022 Lahore, Pakistan.

Organizer



Technical Co-Sponsors



International Speakers



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USA



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Fellow, IEEE
Aalborg University, Denmark



Prof. Dr. Valentina E. Balas
University of Arad, Romania

Important Dates

- **Paper Submission Deadline** 25th July 2022
~~30th June 2022~~
- **Notification of Decision** 15th Oct 2022
- **Final Paper Submission** 15th Nov 2022

Topics

The topics will cover research and activities across all fields related to Electrical Engineering & Sustainable Technology including, but not limited to, the following topics:

- Power System Protection, Monitoring, and Control
- Electrical Power Generation, Transmission, Distribution, and utilization
- Electrical Machines
- Power Electronics
- Wireless Power Transfer
- Embedded Computer System
- Robotics
- Green Communications
- 5G and Heterogeneous Networks
- E-Health
- Cryptocurrency
- Quantum Cryptography and Communications Applications
- Smart Grids
- Electrical Energy Storage
- Electro-Chemical Energy Conversion
- Electric Vehicles
- Renewable Energy Technologies
- Data Mining/Machine Learning Tasks
- Artificial Neural Networks / Deep Learning
- Algorithm for Big Data
- Optimization
- Big Data Analytics and Demand Response
- Cyber and Physical Security
- Other selected topics from Electrical Engineering & Sustainable Technologies

Paper Preparation & Submission

Prospective authors are invited to electronically submit regular papers of their work in English no later than 30th June 2022. Papers must be original and not have been previously presented or published. Limitation is to 6 full pages, including paper title, authors and affiliations, figures and references (maximum size 2MB). Authors are requested to prepare the manuscripts in the IEEE two-column format template and to translate it in PDF. No other format in the submission and in the final version can be accepted.

Sample IEEE template and more detailed information can be found on our website: <https://conferences.usf.edu/iceest/2022>



ICIT 2022

INTERNATIONAL CONFERENCE ON IT AND INDUSTRIAL TECHNOLOGIES

3-4 OCTOBER, 2022



CALL FOR PAPERS

ICIT'22 identifies key IT areas and research interests among researchers and IT practitioners from Pakistan and all over the world. It will provide a platform for sharing knowledge and expertise among the participants. It will also promote research collaborations in crucial IT areas, facilitate interactions for joint proposal writing, and assist in exploring avenues for exchanging ideas between academic and research institutions of international repute. ICIT'22 will help in understanding and identifying the technological requirements and problems of Pakistan after the implementation of China-Pakistan Economic Corridor (CPEC) Project. Moreover, it will propose solutions for some of the identified problems.

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- Business Intelligence
- Embedded Systems / IOT
- Information Security / Blockchain
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- Image Processing, and Pattern Recognition
- Internet Applications
- Smart Grids
- E-Learning
- Emerging Agricultural Technologies
- Textile Technology
- Computational Science
- Multimedia Technologies
- Ubiquitous / Pervasive Computing
- Green Computing

TECHNICAL PAPERS

ICIT'22 draws researchers, application developers, and practitioners from a wide range of IT areas to promote high-quality research findings, and innovative solutions towards challenging local industry problems.

INVITED TALK

Meet the field experts from both industry and academia, a great opportunity to get wisdom from the market experts to transform ideas into reality.

PHD SYMPOSIUM/POSTER PRESENTATION

ICIT'22 provides an international forum and an open-invitation event for PhD students and their supervisors to present original research results, as well as the exchange and dissemination of innovative and practical development experiences.

PANEL DISCUSSION

The ICIT'22 will set aside space for those who wish to pursue a discussion of a particular topic or issue. The panel discussion is the choice of a good topic as the focus for discussion and panelists who bring differing perspectives and are confident in making clear arguments in a live situation.

WORKSHOP/TUTORIAL

ICIT'22 includes workshops and tutorials that complement the main conference, with the goal of expanding new directions of industrial research.

IMPORTANT DATES

PAPER/PHD SYMPOSIUM/POSTER SUBMISSIONS

JULY 15, 2022 (EXTENDED)

NOTIFICATION OF ACCEPTANCE

AUGUST 15, 2022

CAMERA READY DUE DATE

SEPTEMBER 12, 2022

CONFERENCE DATES

OCTOBER 3-4, 2022



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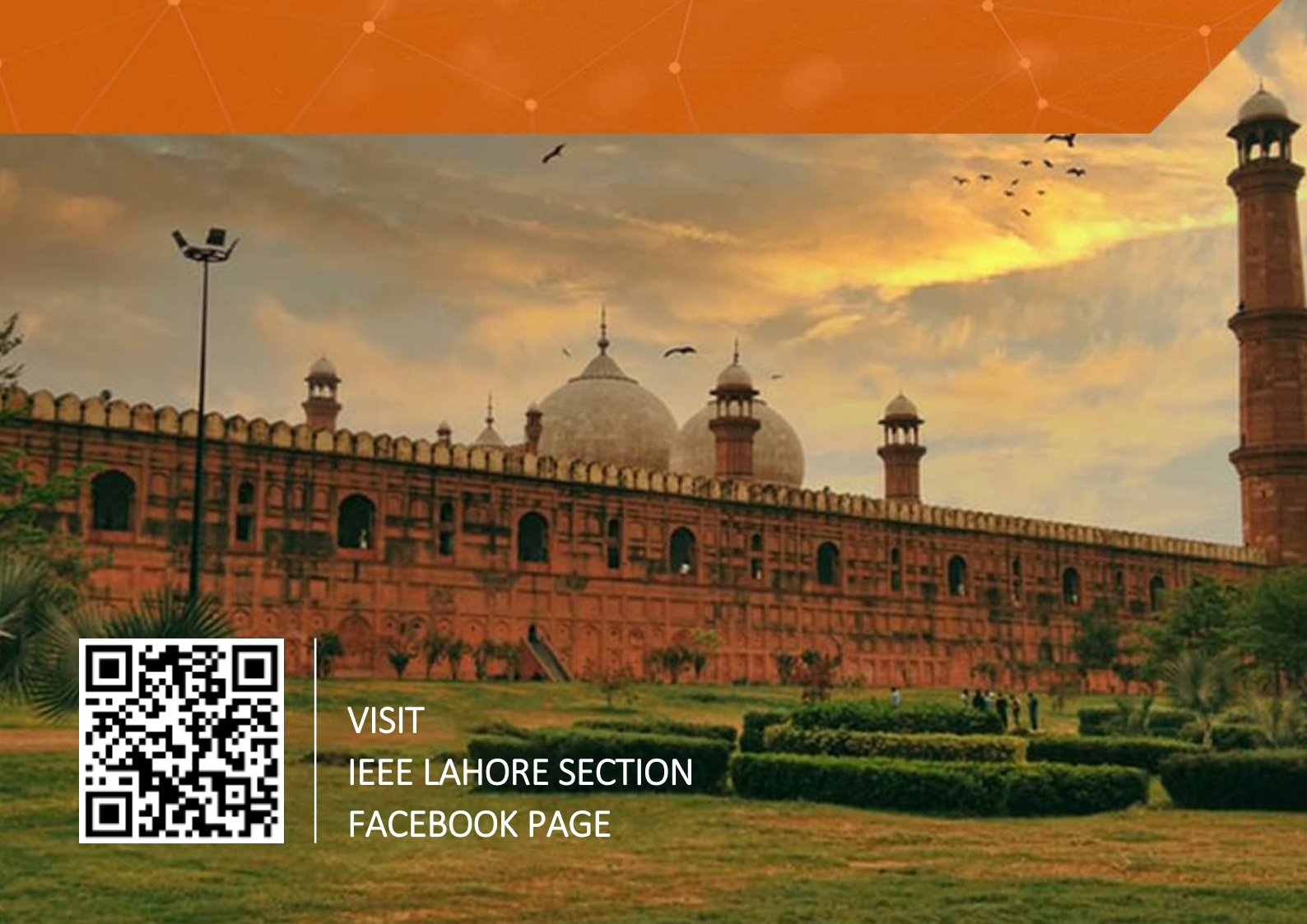


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