COMPUTER SCIENCE DEPARTMENT

COMSATS University Islamabad

Lahore Campus

Newsletter

Spring 2K18

Newsletter

Message From Dean

I welcome you all on the behalf of Computer Science Department. In comparison to other disciplines our students are getting more skillful in this modern technology. We see our students as excellent programmers, researchers and analystsv in future. We are well aware of everyday breakthroughs in modern technology and thus are committed to equip you with advanced competencies to manage the growing needs of sciences and technologies. Our highly qualified faculty members ensure that you have a solid technical grasp on different subjects to apply this knowledge practically.
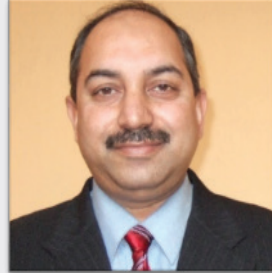
Dr. Asad Hussain

Message From Chairman

Almost everyone is using social networks for the exchange of messages. Most of the messages are "forwarded as received". Because it is the easiest way and shortest time taken, however many of these are the largest source of rumors, propaganda and brain washing of society.

كَفٰى بِالْمَرءِ كَذِبًا أَنْ يُّحَدِّثَ بِكُلِّ مَاسَمِعَ

آدمی کے جھوٹا ہونے کے لے یہی کافی ہے کہ وہ جو کچھ سنے بلا تحقیق اسے بیان کرتا پھرے

Be careful, need to verify from authentic source before you forward any message or video. Usually it takes a few minutes. If you don't have few minutes then better is not to forward. Being the part of information science & technology, it is a very useful and challenging R&D problem to design an application and filter which can recognize the authentic messages.

Dr. Zulfiqar Habib

Message From HOD

I humbly request faculty of computer science department to devote their full synergy for preparing our students as successful citizens and computer science professionals that can face all challenges of life. The future of youth is in our hands and we should play our role to the best of our capacity. I also request my dear students to work hard and focus on your study. The field of computer science is very demanding but you require skills to compete with your fellows across the globe. Good luck to faculty and students for the next semester.

Dr. Ghulam Rasool

Meeting with HOD

A meeting of CS department was held on the 11th of May 2018, It was conducted by HOD(CS), Dr. Ghulam Rasool. The agenda of meeting was to convey some important instructions regarding Final Exams of Semester Spring 18. Some other information about the PhD opportunities and the OG contracts extension was shared with the CS faculty. It was also announced that the summer break will be awarded to the faculty only after the submission of their corresponding results. At the end, HOD appreciated the whole faculty and staff for their remarkable efforts towards research and studies.

TEDxCOMSATS Inauguration

On 13th of February 2018, the department of Computer Science CUI, Lahore campus organized the first National Level TEDx in all the campuses of CUI. TEDxCOMSATS was an international conference, on the theme of "Loug kya Kahein gey" speakers were invited from all over Pakistan. CS faculty member Mr Imran Raza was the chief organizer. The event was set – up with the collaboration of COMSATS Literary Society (CLS) and hosted at Aiwan-e-Iqbal Lahore.

TEDxCOMSATS Talk

On 13th of February 2018, Dr. Wajahat Qazi was invited to deliver motivational talk on "The rise of Trans-humans and Artificial Intelligence" [at TEDxCOMSATS] and was live streamed in more than 100 countries.

Best Paper Award

"NiHA: A Conscious Agent" by Dr. Wajahat Qazi, Syed Tanweer Shah Bukhari, Dr. Andrew Ware and Dr. Atifa Athar was awarded the best paper at the conference "COGNITIVE 18" at Spain on 22nd of February 2018 under the banner of IARIA "International Academy, research and Industry Association ".

TPC for ICCOINS

Department of Computer Science faculty member Dr. Abid Sohail Bhutta is appointed as a TPC (Technical Program Chair) for ICCOINS 2018, Kuala lumpur Malaysia.

ACM Students Chapter

CUI Lahore ACM Student Chapter has been officially chartered by ACM on 9th April 2018. It is good news for CS students and faculty upon recognition of CUI Lahore ACM Student chapter. The world's largest educational and scientific computing society, delivers resources that advance computing as a science and a profession. ACM provides the computing field's premier Digital Library and serves its members and the computing profession with leading-edge publications, conferences, and career resources. Student Chapters provide unique opportunities for networking, mentoring and bonding over common interests. They provide support both within the student community and to local communities outside the institution.

Invited Talks at ICEET

Superior University hosted IEEE's ICEET (International Conference on Engineering and Emerging Technologies) on 23rd of February 2018 in Lahore. Students from CS Department were invited speakers in this conference and given the entire session on robotics to exhibit their research and knowledge. Syed Tanweer Bukhari is currently a PhD student being supervised by Dr. Wajahat Qazi, led the entire session and Mr. Atif Altaf an MS student, Mohammad Samad, a bachelor's student presented their work at this conference.

IEEE RAS Chapter

Computer Science department of CUI lahore has become one of the pioneer of IEEE RAS (Robotic and Automation Society) student chapters. COMSATS University Islamabad, Lahore Campus recently granted the charter of the chapter. Mehmood Hussian is the founding chairperson, who is a graduate student perusing his degree in MSCS. Dr. Wajahat Mehmood Qazi is faculty incharge, who is also the Vice Chair of IEEE RAS Pakistan Lahore Section.

Research Productivity Award

A graceful ceremony for the distribution of Research Productivity Award held at campus on 13 April for the research contributions made by the faculty of Lahore campus. A total of 217 faculty members received the awards. The awards were distributed by the Honourable Rector CUI, Professor Dr. Raheel Qamar, Tamgha-e- Imtiaz. Professor Dr. Qaisar Abbas,Director of Lahore campus,Professor Dr. Muhammad Ahmed Farooqui, Head of Academics and Research, and Professor Dr. Asad Hussain, Dean of Faculty of IT also attended the ceremony.
Allah Bux Sargano, Amjad Ali, Amna Khan, Farooq Ahmad, Ghulam Rasool, Hamid Mirza Turab, Humaira Afzal, Imran Raza, Iram Noreen, M H Chaudhary, Mahwish Waqas, Mudasser Naseer, Muhammad Aksam Iftikhar, Muhammad Shahbaz, Saher Tabbasum, Saima Rathore, Syed Asad Hussain, Touseef Tahir, Umera Imtinan, Usama Ijaz Bajwa and Zulfiqar Habib from CS Department of CUI, Lahore Campus were awarded and appreciated for their work.

BlockChain Technology

On 16th of May 2018, Seminar held on BLOCKCHAIN TEHCNOLOGY. Mr. Mudaser Iqbal, Founder & CEO of Blockchain Expert Solutions, joined us on Saturday to help us knowing about the secure online platform of cryptography. "A BLOCKCHAIN is a continuously growing list of records, called blocks, which are linked and secured using cryptography", told to the audience. In his speech, he discussed about what Blockchain, can do and what can be its practical use in the field. This is not related to the people working in offices only but also people working in academia. This seminar was helpful for the awareness of merits and the scope of the Blockchain in future.

E-Rozgar Program

CS Department organized a seminar on E-Rozgar program with collaboration of PITB. A team of highly qualified and experienced IT professionals nominated by Prof. Dr. Umer Saif (Chairman PITB/VC ITU) visited CS Department of CUI Lahore Campus and delivered important seminar on E-Rozgar program imitated by Honorable Chief Minister Punjab to CS faculty and students. The major objectives of E-Rozgar project are to provide training opportunities to youth for self-employment using internet based freelancing.

Ph.d Defence

The oral defence of PHD scholars Mr. Muhammad Abdul Qayyum (Registration No.CIIT/FA10-PCS-001/LHR) and Mr. Zaigham Mushtaq (Registration No. CIIT/SP11-PCS-001/LHR) was held on Monday March 19, 2018 and Thursday 26th April, 2018, in which they openly defended their topic of thesis "Computer vision based pattern matching and displacement detection during fabric printing" and "Multilingual Source Code Analysis for Recovery of J2EE Environment" respectively.

Visit to PSCA

A visit to PSCA (Punjab safe City Authories) Headquaters lahore, for the students of Computer Science Department was arranged on Tuesday 22nd May 2018. Students visited the different sections of center and were briefed about Punjab Police Integrated Command and control Center (PPIC3) for the surveillance, security and monitoring of whole city. The visit has provided the CS students a great insight about the use of advanced technology systems like automated face recognition system, Integrated traffic management system, number plate detection system, emergency alert systems, and numerous other systems used by them. The Operation Commander briefed the delegation on various topics as well. PSCA is keen to absorb capable youths in its workforce.
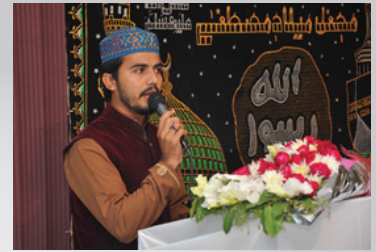
Anti-Smoking Walk

Department of Computer Science, CUI lahore organized an Anti-Smoking Campaign on Friday, 6th April 2018. Multiple activities were held to spread awareness about adverse effects of smoking. A Seminar on "Smoking is Killer" awareness by medical point of view was organized. Senior Faculty member Nadeem Ghafoor Ch described hazards to health associated with active and passive smoking. During Namaz-e-Juma Khutba Islamic point of view about smoking's impairment of religious obligations was elaborated. An "Anti-smoking Campaign Walk" was lead by Worthy Director CUI Lahore. A large number of students and faculty members participated in the walk. Worthy director emphasized the students to become the ambassador of Anti- Smoking and convince smokers to quit smoking. Dr Ghulam Rasool, Head of CS Department and other CS faculty members organized the campaign to make CUI Lahore a 100% smoking free Campus.

Mehfil-e-Milad

On 12th of May 2018, on the welcoming of Holly month of Ramadan, CS Department participated in organizing spiritual "Mehfil-e- Millad". The whole faculty gathered for the event. The Milad commenced with the recitation of a few verses from the Holy Quran. Naats recited by Nadeem Liaqat Bodla, a staff member. Mr. Nadeem shed light on some events from the Holy Prophet's (PBUH) life before reciting Qaseeda Burda Shareef. He refreshed the souls of the audience by reciting the Holy Naat. Sweets distributed among teachers during the Milad. At the end of the event, Dua made for the entire institute.

Power of Belief

A Seminar held on a spiritual topic "Power of Belief", organized by "PIXTERS" under the supervision of a CS faculty member Ms. Maria Nazir and presented by the honorable Dr. Rao M. Adeel Nawab on 4th of May 2018. "There is no greater power than belief, the belief in the power of self and its ability to manifest all your desires". "A positive thought is thousand times stronger than a negative thought", addressed by Dr. Rao M. Adeel Nawab. He also put some thoughts on how to live a life of high achievement.

Food Competition

On 9th of May 2018, the time came to put your burger munching skills to the test and get going when GodFather burgers brings their juicy and scrumptious burgers for a "Food Competition" to our own campus under the supervision of Mr. Zaheer A. Gondal. This activity was quite refreshing for all the faculty members and the students in the CS Department. It help them to tie up with each other in relaxed manner. There was a competition to finish the burger of huge size of 8"(inches) in 12 minutes for a single person, 6 minutes for 2 buddies and 3 minutes for 4 buddies. Students enjoyed the event very much. The award for the winner was "No payment" of the burger. You had to pay for the burger if you lose the challenge of completing the burger in given time.

Student Week

MOUSIKE RAVE 2.0

MOUSIKE RAVE 2.0" was organized by Talha Khalid, Ahmed Butt, Awais Sheikh along with their team(ROSHAN SAFAR) under the supervision of a CS faculty member Ms. Asmara Safdar on 30th of March 2018 at N-Block. Students of this society are actively helping the needy students and the children of shelter homes. To support and promote their social cause, they arranged this event. This event gave an awesome experience to the students by bringing their favourite DJ Toshi. This event was recreational and gave the fun time to all the students. The raised profit was used to help the needy student to support their education.

Auto Show

Ms. Tooba Ahmed and Sir Huraira Hussain, along with their team members, organized the fourth "Auto Show" in CUI, LHR on 31st of March 2018. Boys with custom cars did some cool "drifting" to arouse the crowd to start the event. The most curious part of the event was the female drivers for the Women Empowerment. Group of six girls led by Ms. Tayyaba Tariq came on their personal bikes and inspired many female students and other girls. Ms. Tayyaba Tariq and owner of Saif Traders were chief guests. "We will provide free bike training for females on the show", they announced. "Tariq Carz" and "Saif Traders" sponsored the event. "

Pet Show

The fourth Pet show of CUI, Lahore Campus was organized on 2nd of April, 2018.In this show, students brought their pets for the competition, from adorable cats to incredibly viscous looking dogs. Everyone was hoping for their pet's victory. Shields and certificates were distributed among the participants and winners.

Jandal 18

COMSATS Literary Society organized this event to nourish the literary taste among students as they tried to promote Urdu literature through "Mehfil-e-Mushaira and Bait-Baazi, Jandal 18' " on 3rd of April 2018. Abbas Tabish, Nazeer Qaiser, Ahmed Hammad, Nadeem Bhaabha, Afzal Ajiz, Shafqat-ullah Mushtaq, Ahmed Ata Ullah , Naaz Butt, Tajdeed Qaiser and Shah Nawaz Zaidi were invited to grace the occasion. Students of other universities from Lahore such as UET (University of Engineering and Technology), GCU (Government College University), LUMS(Lahore University of Management Sciences) and UOS (University of Sargodha) participated in Bait-Baazi. The show was mesmerizing and the students had shown a lot of potential in the Urdu Literature. "Dr. Qaisar Abbas", Director of CUI Lahore Campus, graced the occasion by being the chief guest of the ceremony and awarded the guests with shields.

Paint Ball

Paintball is a competitive team shooting sport in which players eliminate opponents from play by hitting them with spherical dye-filled gelatin capsules that break upon impact. "We learn very important lessons like sportsmanship from such games, because we have to play in a group, we have to save our teammates from the opponent's bullets and get to "Flag" first to win the game", said by students. The participants eliminated as soon as the players hit by the pellet. The last team standing won the match. The participants were given bulletproof vests, body suits and protective helmets to avoid injury from the otherwise harmless pellets. Dr. Wajahat Qazi and his team of faculty and students participated in the event. "It was very thrilling and competitive sport", said team.

Closing Ceremony

On 4th of April 2018, final of inter departmental cricket tournament was organized in CUI Lahore Campus on the last day of Student week as the closing ceremony and Mr. Mohammad Irfan joined us for the ceremony as the chief guest of the ceremony. He addressed the audience of CUI Lahore Campus saying that they are providing opportunities to their students to enhance their sports skills and these opportunities can provide their students a chance to make their name in different sports. Furthermore, he appreciated the team work of both teams and encouraged them to keep playing with such enthusiasm and spirit. He also presented the trophy to the winning team.

Research Productivity
Journal Publications

1. M Sajid, I. A. Taj, U. I. Bajwa, N. I. Ratyal, Facial Asymmetry based Age Group Estimation: Role in Recognizing Age-Separated Face Images, Journal of Forensic Sciences, Impact Factor: 1.127.

2. A. Sikandar, W. Anwar, U. I. Bajwa, X. Wang, M. Sikandar, L. Yao, Z. L. Jiang, Z. Chunkai, Decision Tree Based Approaches for Detecting Protein Complex in Protein Protein Interaction Network (PPI) via Link and Sequence Analysis, IEEE Access, Impact Factor: 3.244.

3. Sara Sameen, Muhammad Sharjeel, Rao Muhammad Adeel Nawab, Paul Rayson, Iqra Muneer, Measuring Short Text Reuse for the Urdu Language, Volume: 6, Issue:1, pp: 7412-7421, Impact Factor: 3.244

4. Yousra Asim, Basit Raza, Ahmad Kamran Malik, Saima Rathore, Lal Hussain, Mohammad Aksam Iftikhar, A multi-modal, multi-atlas-based approach for Alzheimer detection via machine learning, International Journal of Imaging Systems and Technology, Impact Factor: 1.139.

5. A Hannan, U. I. Bajwa, S Riaz, U. Arshad, S Saleem, In vitro Salmonella Typhi Biofilm Formation on Gallstones and its Disruption by Manuka Honey, Pakistan Journal of Pharmaceutical Sciences, Volume: 31, Issue:1, pp: 129-135, Impact Factor: 0.682.

6. Muhammad Tahir, Mingchu Li, Naeem Ayoub, Usman Shehzaib, A Novel DDoS Floods Detection and Testing Approaches for Network Traffic based on Linux Techniques, International Journal of Advanced Computer Science and Applications (IJACSA), Volume: 9, No. 2, pp:341-357, Impact Factor: 1.324.

7. N.A. Mian, Farooq Ahmad, Agent Based Architecture for Modeling and Analysis of Self Adaptive Systems Using Formal Methods, International Journal of Advanced Computer Science and Applications, Volume: 9, No. 1, pp:563-567.

8. Touseef Tahir, Ghulam Rasool and Muhammad Noman, A Systematic Mapping Study on Software Measurement Programs in SMEs, e-Informatica Software Engineering Journal, Volume: 12, Issue: 1, pp: 133–165, ISI.

9. Zeshan, F., Mohamad, R., Ahmad, N. Othman, M. B., Jubrail, S. A., Hussain, S. A., Ahmad, A., Ali, A., Ashraf, M., Babar, I., Context-Aware Ontology and Web Services Discovery for Distributed Embedded Real-Time Systems, Malaysian Journal of Computer Science, Impact Factor: 0.74.

10. N. I. Ratyal, I. A. Taj, U. I. Bajwa, M Sajid, Pose and Expression Invariant Alignment based Multi-View 3D Face Recognition, KSII Transactions on Internet and Information Systems, Impact Factor: 0.452.

11. Hafiz Tanveer, Muneer Ahmad, Furkh Zeshan, A Penalized-Likelihood Image Recontrcuction Algorithm For PET Exploiting Root Image Size, International Journal of Advanced Computer Science and Applications (IJACSA), Impact Factor: 1.324.

12 Mehwish Fatima, Saba Anwar, Amna Naveed, Waqas Arshad Cheema, Rao Muhammad Adeel Nawab, Muntaha Iqbal, Alia Masood, Multilingual SMS-based Author Profiling: Data and Methods, Natural Language Engineering, Impact Factor 1.065.

13 Asim, Y., Raza, B., Malik, A. K., Rathore, S., Hussain, L., & Iftikhar, M. Aksam, A multi-modal, multi-atlas-based approach for Alzheimer detection via machine learning, International Journal of Imaging Systems and Technology, Volume: 28(2), pp: 113-123, Impact Factor 0.571.

14 Saleem Zahid, Shahbaz Akhtar. Abid, Nadir Shah, S. Hussnain A.N, and Waqar Mehmood , Distributed Partition Detection with Dynamic Replication Management in a DHT-based MANET, IEEE ACCESS, Volume:06 , pp: 18731 - 18746 , Impact Factor 3.26.

15 A. Tahir, Shahbaz.Akhtar, Nadir Shah (2017), Logical clusters in a DHT-Paradigm for scalable routing in MANETs, Computer Networks (Elsevier), Volume:128, pp:142-153, Impact Factor 2.516.

Conference Paper

01 Tayyaba Fatima, Raees Ul Islam and Muhammad Waqas Anwar "Morphological and Orthographic Challenges in Urdu Language Processing: A Review" 13th Workshop on Asian Language Resources, Collocated with 11th edition of the Language Resources and Evaluation Conference (LREC 2018).

02 Muhammad Noman ; Touseef Tahir ; Ghulam Rasool , A systematic mapping study on success factors of implementing measurement processes in SMEs, ICACS Conference, (February, 2018)
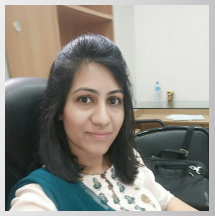
03 Yasir Hussain, Ghulam Rasool, A taxonomy of mobile games based on structural similarity CACS Conference, (February, 2018).

04 Muhammad Noman ; Touseef Tahir ; Ghulam Rasool , A systematic mapping study on success factors of implementing measurement processes in SMEs, ICACS Conference, (February, 2018)
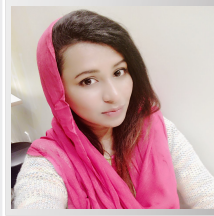
New Hiring

Mamoona Tasadduq
Lecturer-CS

Muhammad Nasir
Lecturer-CS

Zeenat Afzal
Lecturer-CS

Momina Shaheen
Lecturer-CS

Syed Burhan
Lecturer-CS

Kanza Hamid
Lecturer-CS

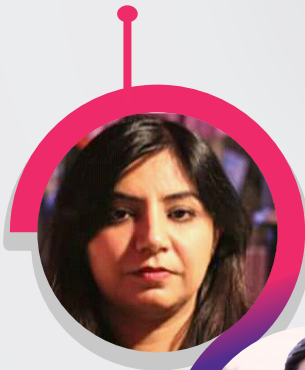## Newsletter Team

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Hamza Rizwan