



IEEE COMPUTER SOCIETY  
LAHORE SECTION ANNOUNCES

# ICOSST 2018

19<sup>th</sup> -21<sup>th</sup> December, 2018

12<sup>th</sup>

International Conference on Open Source  
Systems and Technologies(ICOSST)



IEEE Computational Intelligence Society  
Lahore Section



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Al-Khawarizmi Institute of Computer Science (KICS)  
University of Engineering & Technology, Lahore, Pakistan

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## IEEE ICOSST'18

Open-Source Software's have emerged as a cross-disciplinary paradigm for a large spectrum of computing applications. It helps in many ways, keeping the software market away from monopolies and providing innovative solutions. It not only helps the organizations to keep a control on the cost of development and deployment but also kept them ahead in terms of technology and robustness. OSS has also changed the way software applications are architected, deployed, and consumed but also they are engineered to provide large distributed cross-platforms and frameworks.

It has now established as a cross-disciplinary paradigm for distributed enterprise computing and e-Government. It is helping organizations both Governmental and non-Governmental to keep a control on the cost of development and deployment. OSSs have 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.

## MEETING OF THE MINDS

IEEE Computer Society Lahore Section in technical collaboration with KICS UET Lahore, is organizing a three-day conference 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 software like virtualization, knowledge-bases, surveillance, automation, etc. ICOSST-2018 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 the customized and enterprise grade applications.

We KICS UET are high motivated to set this conference as an example thus keeping up with the traditions we have invited 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 software like Virtualization Big data, Cloud computing, Internet of Themes, Data Analytics and Security.

At ICOSST KICS, UET you will be able to know about new technology, latest research trends. This year we have researcher participation from 11 countries different countries and PH.D. Review Panel from 35 countries.



## HOW ICOSST'18 IS DIFFERENT FROM ITS PREDECESSOR

The conference program emphasizes evidence-based practice, educational innovation, practical application, and peer to peer networking and collaboration.

The goals of the conference is to provide a transformative professional development experience through bringing together the scientific experts to catalyze and advance scientific knowledge about blockchain present the most recent research findings, and promote and enhance scientific collaborations around the world.

ICOSST'18 will be bringing together community leaders, scientists, and policy leaders to promote and enhance programmatic collaborations to more effectively address regional, national and local responses to Elderly Population around the world and overcome barriers that limit access to care and services.

Highly focused promotional campaigns using all kind of media will increase the visitor footfall from all major verticals.

There would be special arrangements for facilitating the experience of visitors making their visit a well-planned and productive experience.

ICOSST'18 is going to raise the standards of management and organization to a much higher level far surpassing the expectations set by **ICOSST 2017**.



The especially designed ambience and environment for business deals and negotiations arrangements of meeting rooms, discussion corners and presentation theatres for exclusive business talks and knowledge exchange.

**“Our Resources for your Assistant”RESEARCH LABS:** Currently the following Research Labs are operating at the Institute:

- Embedded Systems & Enterprise Software Solution.
- Software System Research Group
- Next Generation wireless LAB
- Bio Informatics LAB
- Alternate Energy Research & Innovation
- High Performance Computing lab.
- Data Science Lab
- Centre for Language Engineering
- Artificial Intelligence LAB
- Internet of Things (IOT) Lab
- Energy Efficiency & Control Lab (EECL)
- Industrial Automation & Control Lab.

## ENGAGE YOUR BRAND WITH THE TRUE POTENTIAL OF EMPIRICAL MARKETING:

- Trying to decide whether there is true value in blockchain or not.
- Evaluating the size of the market opportunity.
- Developing new services and products that will utilize blockchain.
- Repositioning existing services and products to utilize blockchain, or Already utilizing blockchain solutions



## BLOCK CHAIN IMPACT

Blockchain a technology that came to stay for good, the flow of knowledge will obviously change in a decentralized system, everyone will benefit from free and reproducible data, and the innovation power of such a friction-free information system can increase many-fold. It is one of the fastest-growing technology markets, providing endless solutions for secure business transactions. Aite Group predicts that the blockchain market will grow to more than \$6.2 billion by 2020. Despite this, the term "blockchain" remains mysterious and confusing to most people, who are unaware of the potential gains it offers.

Lambert Heller from TIB [4] makes the case of the "crucial advantages" of the use by education and research institutions of the new business model of blockchain technology with "**smart contracts**" for **scientific archiving**. He envisions the possibility for the universities to participate in networks with block chain technology by contributing with server capacity or by winning, buying/selling crypto currency. Meanwhile, the funding agencies or governmental institutions as stakeholders could provide a crypto-currency for the specific network. He sees the possibility for research institutions to make their own block chain network and discusses the extent to which these networks can be open or closed to the public and why.

In the actual context of the accountability of the institutions to the society, the exposure of the "smart contracts" to the public scrutiny weighs as an advantage for the institution success.

Another idea, coming from the director of the Knowledge Media Institute from UK's Open University, specialized in distance learning, and is to make a **public ledger of validated academic qualifications** with high impact on the recruitment of the graduates. But the biggest impact would be the "cut out of the middleman in distance learning: the university". That would be, in his words, "the University of one". This is already happening he says, but the added value of the technology to this model would be in the added trust.

## BLOCKCHAIN STATS AND FACTS

The Blockchain market is expected to be more than \$3 trillion by 2024



90%



90% of North American & European Banks Are investing on Blockchain

Over the last five years, VCs have invested more than \$1 billion into blockchain companies.



It is estimated that banks could save \$8-12 billion annually if they used blockchain technology.

75% of all Bitcoin ATM's are in the United States, and some overseas Bitcoin ATM's only dispense US dollars.



After Japan, Switzerland is the next to begin accepting Bitcoin payments to cover your taxes. 64% Bitcoins were never used and might never be used.

FBI owns 1.5% of world's total Bitcoins



Times Higher Education cites: “Everyone in the system can check what a student has learned which certificates they have accumulated rather than having to rely on a particular institution to store these data” [5]. This model implies, in my understanding, self-made curricula to get a self-made specialization, while the technology provides all the necessary certifications for everyone to see

### Fast and Secure Money Operations

Blockchain has its roots in cryptocurrency, so the idea of fast and secure fund transfer makes perfect sense. No matter what operation you choose to execute through blockchain by means of cryptocurrency accepting payments, paying vendors or subcontractors, or transferring wages to employees blockchain makes the process smooth and secure.

### Smooth supply Chain Operation and Proof of Provenance

Businesses whose processes are tied up in shipping and logistics know how much paperwork and stress it takes to manage and keep everything in order. In most cases, it is hard to keep track of the current location of goods and shipments in real time. Delays with shipments can affect businesses, resulting in additional overhead and strained relations with those dependent on a partner's smooth supply chain operation.

### Safe storage of Data

The idea behind cloud storage is simple all blockchain users can mutually store data on each other's computers by renting additional hard drive space. Stored data is encrypted, and access is limited to those who have the cryptokey. Blockchain offers a solution that enables businesses to reduce costs, earn more money and keep their data secure from cybercrime.

### Healthcare

No industry requires more data to be processed daily than the healthcare sector. From patient admittance to recording surgical results, every patient represents a torrent of data that must be kept accurate, accessible and secure. No technology can satisfy these requirements like blockchain.

## BENEFITS OF YOUR PARTICIPATION

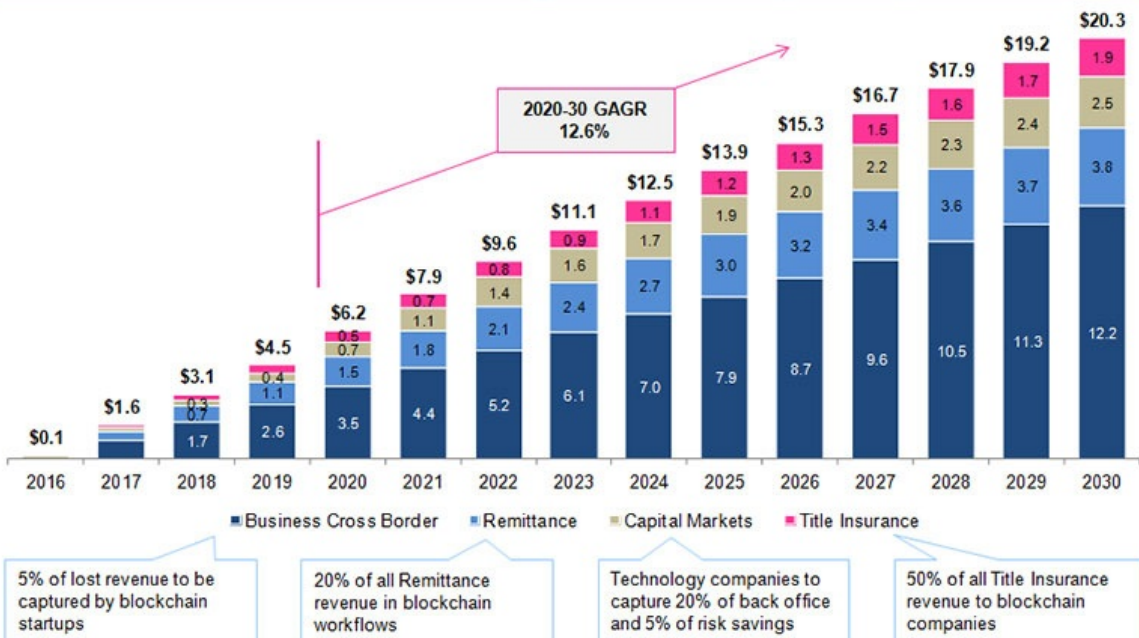
**Reach a global audience** of senior decision makers, middle management and young professionals working in the infrastructure and industrial sector.

**Showcase your activities & expertise** at ICOSST'18 this will be an opportunity to exhibit your ideas with the world.

**Have a voice** in a specially arranged forum on best practices in the industry, and interact with key players from the infrastructure industry in high powered sessions.



### Blockchain Technology Revenue Pool (\$ billions)



Source: Autonomous Research, Aite Group

### ENTERPRISE BLOCKCHAIN SURVEY

SAP has conducted a survey among its SAP Blockchain Community members. Our members are customers and partners, each sharing an interest and need to learn more about blockchain and its adoption as a technology to improve our lives. The highlights of the survey are shared in the infographic below, based on more than 200 responses, primarily from senior business leaders, supply chain managers, innovation & strategy officers and business analysts.

SAP [www.sap.com/blockchain](http://www.sap.com/blockchain)

#### 1 EARLY ADOPTION



92% of survey respondents view blockchain as an opportunity



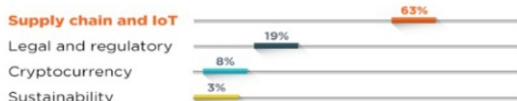
Only 3% of survey respondents are using blockchain in a production today



84% of survey respondents are currently engaged in blockchain related activities

#### 2 LEADING USE CASES

##### MOST PROMISING BLOCKCHAIN USE CASES



##### MOST IMPORTANT BLOCKCHAIN ATTRIBUTES



#### 3 FUTURE IMPACT



76% of survey respondents view that operational supply chain will be replaced by Smart Contracts in 5 - 10 years

83% of survey respondents assume that blockchain will become the system of trust

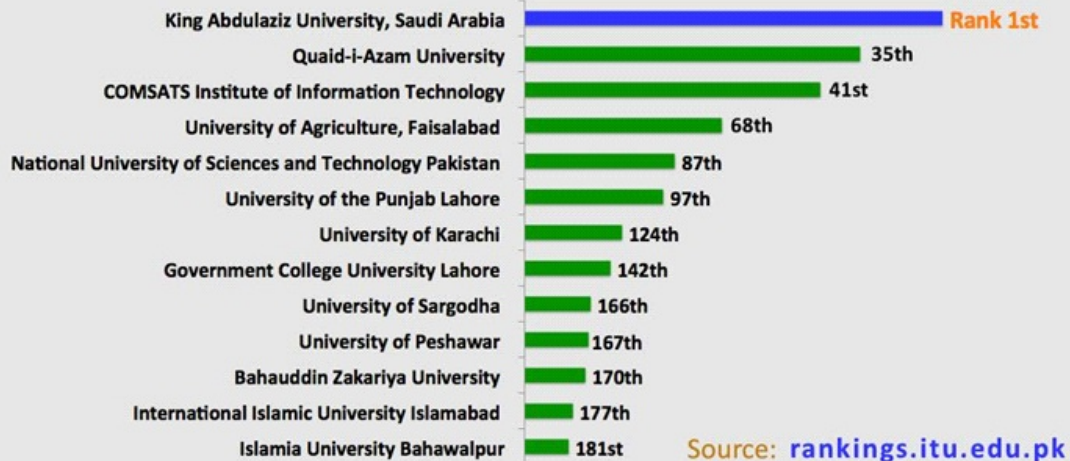
96% of survey respondents think that blockchain will improve the compliance of companies



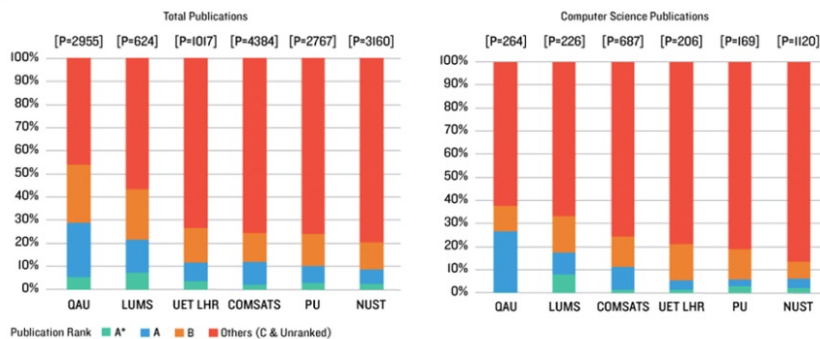
QUALITY RESEARCH RANKING  
of Muslim World

S LAB  
Scientometrics Lab

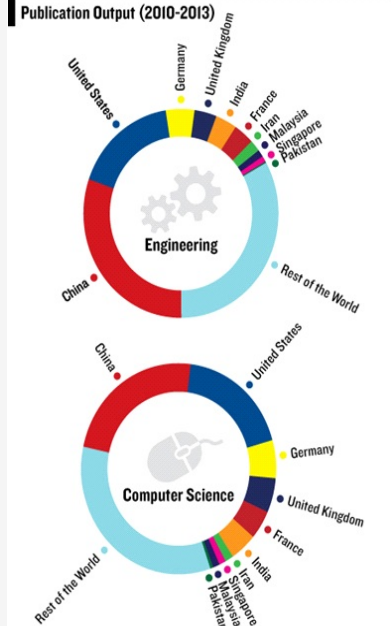
### QUALITY RESEARCH RANKING OF PAKISTANI UNIVERSITIES IN MUSLIM WORLD - 2017 (BROAD INSTITUTIONS)



#### Research Output of Top Tier Pakistani Institutes



#### Publication Output (2010-2013)





## References

- [1] *How blockchain can build communities completely free of hierarchy*, TheNextWeb, <https://tnw.to/2vS5CVf>, published on Sep. 2017, accessed on Nov. 2017
- [2] *How Bitcoin, Ethereum, and other major cryptocurrencies compare to one another*, Business Insider, <http://www.businessinsider.com/bitcoin-price-ethereum-and-other-cryptocurrencies-compare-2017-9?international=true&r=US&IR=T>, published on Sep. 2017, accessed on Dec. 2017
- [3] *Bitcoin, blockchain, and the future of money*, Quartz, <https://youtu.be/A-L2M0I5dEY>, Quartz, published on Oct. 2017, accessed on Oct. 2017
- [4] *Provision of scientific objects using smart contracts on a blockchain how and why?*, Lambert Heller, TIB Blog, <https://blogs.tib.eu/wp/tib/2017/07/03/provision-of-scientific-objects-using-smart-contracts-on-a-blockchain-how-and-why/>, published on July 2017, accessed on Nov. 2017
- [5] *What blockchain technology could mean for universities*, TimesHigherEducation, <https://www.timeshighereducation.com/news/what-blockchain-technology-could-mean-for-universities>, published on 31 Aug. 2017, accessed on Dec. 2017
- [6] TU Delft Blockchain Lab, <http://www.blockchain-lab.org>, accessed on Dec. 2017
- [7] *Archeology and Blockchain: a social science data revolution?*, The Guardian, <https://www.theguardian.com/science/2017/oct/02/archaeology-and-blockchain-a-social-science-data-revolution>, published on Oct. 2017, accessed on Dec. 2017
- [8] *How does blocktechnology work?*, Coindesk, <https://www.coindesk.com/information/how-does-blockchain-technology-work/>, accessed on Nov. 2017
- [9] *Smart Contracts: The Blockchain Technology That Will Replace Lawyers*, Blockgeeks, <https://blockgeeks.com/guides/smart-contracts/>, accessed on Nov. 2017



## EXHIBITOR

### PROFILE

Telecommunications  
Manufacturing  
Retail  
Insurance  
Banking  
Finance  
Government  
Healthcare  
Travel  
Retail and whole sale trade  
Transportation  
Energy and utilities  
Natural resources  
Communication media and entertainment  
Life science  
Financial services  
Mining  
Oil and gas  
Robotics  
Shipping  
Automotive  
Agriculture  
Finance  
E-commerce  
Sports  
Science and research  
Defense and space  
Market research  
Professional, scientific and technical services

## VISITOR

### PROFILE

Construction & Real Estate  
Energy  
Engineers  
Researchers  
Furniture  
Universities  
Computer Hardware & Software  
Health & Medicine

## INVITATION TO EXHIBIT

At the ICOSST 2018 conference to be held in UET LAHORE from **DECEMBER 19-21, 2018**, an industrial equipment exhibition will be provided for related products and services in the field of reliability physics in electronics. The ICOSST 2018 will provide a venue for business and non-profit organizations to make contact with the international community on block chain Potential exhibitors should contact the organizer (address overleaf) for further information.

## WHY EXHIBIT?

The ICOSST'2018 conference and exhibition attracts influential decision makers who attend the technical sessions to present their work and learn about the latest technological developments.

While they come to network with colleagues and peers, they will automatically visit the exhibition.

As an exhibitor, you will have the unique opportunity to market your products and services to a captive audience of buyers, designers and influencing researchers. Exhibit hours have been arranged to give exhibitors maximum exposure. Social functions have been planned in the exhibit area so that delegates meet on both a social and business level

## WHY SHOULD YOU GET INVOLVED?

Sponsors and exhibitors of ICOSST 2018 will benefit from exposure to about 3,000 delegates: decision-makers, professionals, academics, theorists, engineers, researchers and students involved in the broad field of automation and control of systems.



## SHELL SCHEME

**RATE : PKR 20,000/ Stall (Pakistan Currency)**

**RATE : USD 300/ Stall (Foreign Currency)**

The early you book, the prominent your spot will be on the exhibition floor. It will enhance your company's corporate profile.

# SPONSORSHIP OFFERS

## WHY SHOULD YOU GET INVOLVED ?

Sponsors and exhibitors of ICOSST 2018 will benefit from exposure to about 3,000 delegates: decision-makers, professionals, academics, theorists, engineers, researchers and students involved in the broad field of automation and control of systems. ICOSST 2017 sponsorship will position companies as leaders on high technology and emerging innovative markets.

### PLATINUM - 500,000

1. Delegates - 4
2. Advertisement On all the conference banners and promotions.
3. One panel member.
4. Special mention during the conference proceeding.
5. Standees displayed all over the Campus.
6. Name on the Social Media & Website as Partners.
7. Logo to be displayed on all the banners.
8. Coverage on Newsletter
9. Dinner Invitation to 5 members
10. Speakers Invitation to 5 members
11. Case Studies of your firm to be taken for the Competition.
12. Events and Activities.
13. Your Company's ad displayed before and after the competition.
14. Speaking Time Slot - 5 minutes allocated to an executive member.

### DIAMOND - 350,000

1. Delegates - 3
2. Advertisement On all the conference banners and promotions.
3. One panel member.
4. 10 Standees to be displayed on Campus.
5. Name on the Social Media & Website as Partners.
6. Logo to be displayed on all the banners.
7. Coverage on Newsletter.
8. Dinner Invitation to 3 members.
9. Speakers Invitation to 3member.
10. Papers Case Studies of your firm to be taken for the Competition.
11. Activities Your Company's ad displayed before and after the competition.
12. Speaking Time Slot - 3 minutes allocated to an executive member.

# SPONSORSHIP OFFERS

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## Gold - 200,000

1. Delegates - 3
2. Advertisement On all the conference banners and promotions.
3. Display of 3 Standees in the Campus.
4. Name on the Social Media & Website as Partners.
5. Logo to be displayed on all the banners.
6. Coverage on Newsletter.
7. Dinner Invitation to 2 members.
8. Speakers invitation to 2 member.
9. Case Studies of your firm to be taken for the Competition.

## Silver - 100,000

1. Delegates - 2
2. Advertisement on all the conference banners and promotions.
3. Display of 2 Standees in the Campus.
4. Name on the Social Media & Website as Partners.
5. Logo to be displayed on all the banners.
6. Invitation to 1 member.
7. Case Study And Research Papers.
8. Case Studies of your firm to be taken for the Competition.
9. Events and Activities Your Company's ad displayed before and after the competition.
10. 4 Complimentary conference registrations.

## Bronze - 50,000

1. Delegates - 5
2. Advertisement on all the conference banners and promotions.
3. Display of 4 Standees in the Campus.

## Educational - 25,000

1. Delegates - 25
2. Advertisement On all the conference website and Medica Wall.



## ORGANIZERS



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