

# Aman Ullah

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## PROFESSIONAL PROFILE

**Aman Ullah** received his Ph.D. degree in computer science and technology from Central South University, China in 2022. He is currently pursuing a postdoctoral research position at Yangtze Delta Region Institute (Huzhou), University of Electronic Science and Technology of China, Huzhou 313001, China. He has published several JCR indexed by SCI research papers in reputed journals such as IEEE Transactions on Industrial Informatics, Expert Systems with Application, Information Sciences, Applied Intelligence, Scientific Reports, Complexity, IEEE Access, Entropy, International Journal of Modern Physics, Physica A: Statistical Mechanics and its Applications, etc., and he has been a speaker at a number of conferences. In addition, he has been nominated as outstanding international student at Central South University. He is also a potential reviewer for several peer-reviewed journals. His current research interests include Complex Networks mining (structure and function of complex networks, -especially, Influential nodes identification, community detection, link prediction) and software effort estimation.

## Objectives

A challenging and responsible position in an organization where creativity, innovation and sound management is utilized to produce and maintain motivated goal-oriented work-environment to achieve individual and collective growth. Furthermore, I want to improve my research experience locally and internationally, and work with experienced new professionals.



## RESEARCH INTERESTS

- Network analysis, Complex Networks, with a focus on modeling novel problems and proposing scalable algorithms for identifying influential nodes and detecting communities in real-world complex networks.
- Software engineering (software cost estimation).



## EDUCATION

Central South University, Hunan, China	2022
<b>Ph.D. Computer Science and Technology</b>	
Abasyn University Pakistan	2017
<b>MS. Computer Software Engineering</b>	
Gomal University KPK, Pakistan	2012
<b>BS. Computer Science</b>	

## EMPLOYMENT

Yangtze Delta Region Institute (Huzhou), University of Electronic Science and Technology of China, Huzhou 313001, China

**July 2022- Current**

**Research Associate (Scientific Researcher)**

Software and Web Application Developer

XGEN software, Islamabad

**2012-2014**

Pakistan (**Internship**)

## TEACHING EXPERIENCE

### **Computer Lecturer: STEMS EDUCATION SYSTEM (Pakistan, 2013-2016):**

- ✓ Teaching various subjects to students with lectures, tutorials, labs and coursework.
- ✓ Supervise Master Students.
- ✓ Teach [C++](#), [Database](#), Data structure , [Operation Research](#), and [Software Engineering](#).

### **Subjects of interest to teach:**

- ✓ Advanced Automata Theory / Theory of Computation
- ✓ Design and Analysis of Algorithms
- ✓ Artificial Intelligence
- ✓ NLP, IRS,
- ✓ Soft Computing
- ✓ Operation Research,
- ✓ Software Engineering

## LIST OF SCI JOURNALS

S#	Paper Tittle	Author Order	Journal Name	Date/year	JCR quartile	Link
1	A novel relevance-based information interaction model for community detection in complex networks	First	Expert Systems with Applications	2022	Q1	<a href="#">Click</a>
2	Identifying vital nodes from local and global perspectives in complex networks	First	Expert Systems with Applications	2021	Q1	<a href="#">Click</a>
3	Escape Velocity Centrality: Escape Influence-based Key Nodes Identification in Complex Networks	First	Applied Intelligence	2022	Q1	<a href="#">Click</a>
4	Identification of nodes influence based on global structure model in complex networks	First	Scientific Reports	2021	Q1	<a href="#">Click</a>
5	Identification of Influential Nodes via Effective Distance-based Centrality Mechanism in Complex Networks	First	Complexity	2021	Q2	<a href="#">Click</a>
6	LSM: A Locality-based Structural Model to Assess the Spreader's Position in Complex Networks (Under review)	First	IEEE Transactions on Cybernetics	2022	Q1	<a href="#">Click</a>
7	NP Centrality: Spreading dynamics attributed detection of significant nodes in complex networks. (Under revision)	First	Expert Systems with Applications	2022	Q1	<a href="#">Click</a>

8	CA-IoMT: Knowledge Graph Embedding-enhanced Deep Collaborative Alerts-recommendation against COVID19	Coauthor	IEEE Transactions on Industrial Informatics	2022	Q1	<a href="#">Click</a>
9	Similarity Attributed Knowledge Graph Embedding Enhancement for Item Recommendation	Coauthor	Information Sciences	2022	Q1	<a href="#">Click</a>
10	Categorization of Knowledge Graph based Recommendation Methods and Benchmark Datasets from the Perspectives of Application Scenarios: A Comprehensive Survey	Coauthor	Expert Systems with Applications	2022	Q1	<a href="#">Click</a>
11	Hashing-based semantic relevance attributed knowledge graph embedding enhancement for deep probabilistic recommendation	Coauthor	Applied Intelligence	2022	Q1	<a href="#">Click</a>
12	Identifying Communities in Dynamic Networks Using Information Dynamics	Coauthor	Entropy	2020	Q2	<a href="#">Click</a>
13	Identifying influential nodes in complex networks based on local neighbor contribution	Coauthor	IEEE Access	2019	Q2	<a href="#">Click</a>
14	Community detection based on human social behavior	Coauthor	Physica A: Statistical Mechanics and its Applications	2019	Q2	<a href="#">Click</a>
15	FluidC+: A novel community detection algorithm based on fluid propagation	Coauthor	International Journal of Modern Physics	2019	Q3	<a href="#">Click</a>
16	Probabilistic Approach to COVID-19 Data Analysis and Forecasting Future Outbreaks Using a Multi-Layer Perceptron Neural Network	Coauthor	Diagnostics	2022	Q2	<a href="#">Open</a>

## LIST OF EI JOURNALS

S #	Title	Author Order	Journal Name	Date	JCR quartile	Link
1	Optimization of software cost estimation model based on biogeography-based optimization algorithm	First	Intelligent Decision Technologies	2020	-	<a href="#">Click</a>
2	Feature Extraction aligned Email Classification based on Imperative Sentence Selection through Deep Learning	Coauthor	journal of Artificial Intelligence and Systems	2022	--	<a href="#">Click</a>

## LIST OF CONFERENCES

S#	Title	Author Order	Journal Name	Date	JCR quartile	Link
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1	A Novel Technique of Software Cost Estimation Using Flower Pollination Algorithm	First	International Conference on Intelligent Computing, Automation and Systems (ICICAS)	2019	--	<a href="#">Click</a>
2	A comparative study for software cost estimation using COCOMO-II and Walston-Felix models	First	The 1st International Conference on Innovation and Computer Science & Software	2016	--	<a href="#">Click</a>
3	A Performance Analysis for Software Cost Estimation Using Doty and COCOMO-II Models	First	International Conference on Computing and Artificial Intelligence (ICCAI 2018)	2018	--	<a href="#">Click</a>

## Skills

### Leadership & Management Skills:

- ✓ Supervision of a Master's student for design projects for National Science Foundation of China.
- ✓ Organized weekly training with team-based challenges.
- ✓ Presented challenge solutions.

**Programming Language Skills:** • JAVA • C/C++, • Python, • Android • DotNet • PHP

**Database Design Skills:** Databases and Database Management of Enterprise Organization University of Sindh.

**Computer Skills:** Microsoft Office, Visual Studio, MYSQL, Adobe Photoshop

### Advising and collaboration of Master's students:

- ✓ Binary Analysis Tool For Identification Variable Types In Binary Programs.
- ✓ Detecting Privacy Leaks Through Existing Android Frameworks.

## CERTIFICATES

Central South University Huan, China  
**Outstanding international student award**  
 STEMS EDUCATION SYSTEM, Pakistan  
**Microsoft Office**

**2021-2022**

**April 2013 to March 2016**

## Real Time Project Development

### Python Development:

- ✓ Influential nodes identification in Complex network ([Code](#)).

### Degree Thesis:

- ✓ Research on complex networks key nodes and community structure mining (Ph.D. thesis).
- ✓ A Comparative Study for Software Cost Estimation Using COCOMO-II and Walston-Felix models (MS-thesis).

- ✓ Successfully completed a project on Distance education system of Gomel University DI Khan (BS thesis).

## Android Development:

- ✓ SMS and call tracking system
- ✓ Online banking system
- ✓ Result information system using sms technology.
- ✓ Excel sms sender (Bulk SMS Sender).
- ✓ Annoying alarm system.
- ✓ Fees Payment System.



## PROFESSIONAL ACTIVITIES

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### Journal Reviewer:

- ✓ IEEE Transactions on Network Science and Engineering.
- ✓ Information Processing and Management
- ✓ Scientific reports
- ✓ Expert Systems with Applications
- ✓ PloS one
- ✓ Entropy

### Conference External Reviewer:

- ✓ The 14th International Computer Conference on Wavelet Active Media Technology and Information Processing.
- ✓ The 15th International Computer Conference on Wavelet Active Media Technology and Information Processing.
- ✓ 2st Workshop on Cloud Security and Privacy.



## TALKS

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- ✓ **Presenter:** A Novel Technique of Software Cost Estimation Using Flower Pollination Algorithm, “in Chongqing, China 2019”.
- ✓ **Presenter:** Malicious Code Detection: Image Processing Using Deep Learning: International Conference on Computing and Artificial Intelligence (ICAAI), Chengdu, China, March 2018.
- ✓ **Presenter:** Artificial Intelligence challenges and implantation to the current trends, AI Seminar in UESTC, 2019.
- ✓ **Presenter:** Latex and other research tools: Invited talk at Sichuan University.
- ✓ An Excellent team man with Effective Communication skills



## PERSONAL INFORMATION

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**Languages** English, Pashto, Urdu & Chinese.

**Hobbies** Watching Movies, Badminton, Swimming, Books Reading & Jogging.