


Brief CV

Name/中文姓名	Amr Tolba	Gender	Mail	
Title (Pro./Dr.)	Associate Prof	Country	Saudi Arabia / Egypt	
University/Department	King Saud University – Computer Science			
Personal Web Sites	Not Updated			
Research Area	<ul style="list-style-type: none"> • Computational Social Science social informatics, human behavior, network science, science of success, social computing and networking • Big Data data science, data analytics, scholarly big data, urban big data, knowledge graph, digital libraries • Mobile Networks vehicular social networks, ad hoc social networks, socially-aware networking, and intelligent systems. <p>Internet of Thing (IoT). Recommender Systems. Cloud Computing.</p>			

- ✚ Emergency warning messages dissemination in vehicular social networks: A trust based scheme, *Vehicular Communications*, Vol. 22, pp. 100199, 2020. **(ISI impact factor 3.35 – Q1)**
- ✚ TBM: A trust-based monitoring security scheme to improve the service authentication in the Internet of Things communications, *Computer Communications*, Vol. 150, pp. 216-225, 2020. **(ISI impact factor 2.7 – Q2)**
- ✚ Securing Cryptographic Chips against Scan-Based Attacks in Wireless Sensor Network Applications, *Sensors*, 2019, **(ISI impact factor 3.31 – Q2)**
- ✚ CMRS: A Classifier Matrix Recognition System for Traffic Management and Analysis in a Smart City Environment, *IEEE Access*, pp. 163301-163312, 2019, **(ISI impact factor 4.096 – Q1)**
- ✚ Utilizing IoT wearable medical device for heart disease prediction using higher order Boltzmann model: A classification approach, *Measurement*, 2019 **(ISI impact factor 2.8 – Q2)**
- ✚ A social-based watchdog system to detect selfish nodes in opportunistic mobile networks, *Future Generation Computer Systems* 2019, **(ISI impact factor 5.7 – Q1)**
- ✚ Content accessibility preference approach for improving service optimality in internet of vehicles, *Computer Networks*, 2019, **(ISI impact factor 3.1 – Q1)**
- ✚ MDS: Multi-level decision system for patient behavior analysis based on wearable device information, *Computer Communications*, 2019 **(ISI impact factor 2.7 – Q2)**
- ✚ Optimizing the network energy of cloud assisted internet of things by using the adaptive neural learning approach in wireless sensor networks, *Computers in Industry*, 2019, **(ISI impact factor 4.6 – Q1)**
- ✚ Cooperative data forwarding based on crowdsourcing in vehicular social networks, *Pervasive and Mobile Computing*, 2019, **(ISI impact factor 2.99 – Q1)**
- ✚ A Cross-Layer Approach for Optimization of MolCom Systems Toward the Internet of Bio-NanoThings, *IEEE Systems*, 2019, **(ISI impact factor 4.7 – Q1)**
- ✚ Design and performance evaluation of mixed multicast architecture for internet of things environment, *Journal of supercomputing*, 2018 **(ISI impact factor 1.532 – Q2)**
- ✚ Optimized feature selection algorithm based on fireflies with gravitational ant colony algorithm for big data predictive analytics, *Neural Computing and Applications*, 2018, **(ISI impact factor 4.2 – Q1)**
- ✚ Soft computing approaches based bookmark selection and clustering techniques for social tagging systems, *Cluster Computing*, 2018 **(ISI impact factor 2.04 – Q2)**
- ✚ Quantifying the impact of scholarly papers based on higher-order weighted citations, *PLOS ONE*, Volume: 13 Issue: 3 Article Number: e0193192, 2018 **(ISI impact factor 2.8 – Q1)**
- ✚ Trust-based neighbor selection using activation function for secure routing in wireless sensor networks, *Journal of Ambient Intelligence and Humanized Computing*, 2018, **(ISI impact factor 1.4 – Q3)**
- ✚ PAVE: Personalized Academic Venue Recommendation Exploiting Co-publication Networks, *Journal of Network and Computer Applications*, Vol pp, DEC 2017. **(ISI impact factor 3.5 – Q1)**
- ✚ Engineering Molecular Communications Integrated with Carbon Nanotubes in Neural Sensor Nanonetworks, *IET Nanobiotechnology*, Vol pp, NOV 2017, Pages 1–23 **(ISI impact factor 1.463 – Q4)**
- ✚ From triadic closure to conference closure: the role of academic conferences in promoting scientific

collaborations, Scientometrics Vol 113, 2017, Pages 177–193 (**ISI impact factor 2.147 – Q2**)

- ✦ The role of positive and negative citations in scientific evaluation, Vol 5, IEEE Access, 2017 (**ISI impact factor 3.2 – Q1**)
- ✦ LoTAD: long-term traffic anomaly detection based on crowdsourced bus trajectory data , World Wide Web-Internet and Web Information Systems Vol PP, 2017, Pages 1–23 (**ISI impact factor 1.405 – Q3**)
- ✦ Implicit Multi-Feature Learning for Dynamic Time Series Prediction of the Impact of Institutions, Vol 5, IEEE Access, 2017 (**ISI impact factor 3.2 – Q1**)
- ✦ BoDMaS: Bio-inspired Selfishness Detection and Mitigation in Data Management for Ad-hoc Social Networks, Ad Hoc Networks Journal Vol 55, February 2017, Pages 119–131 (**ISI impact factor 3.05 – Q1**)
- ✦ Performance Evaluation of a Dual Coverage System for Internet of Things Environments, Mobile Information Systems, Article ID 3464392, 2016 (**ISI impact factor 1.458 – Q2**)
- ✦ ERGID: An Efficient Routing Protocol for Emergency Response Internet of Things, Journal of Network and Computer Applications, Vol 72 pp 104-112, 2016. (**ISI impact factor 3.5 – Q1**)
- ✦ Geo-Social Distance-Based Data Dissemination for Socially Aware Networking, IEEE Access, 2016 (**ISI impact factor 3.2 – Q1**)
- ✦ Exploiting Publication Contents and Collaboration Networks for Collaborator Recommendation, 2016 PLOS ONE (**ISI impact factor 3.324 – Q1**)
- ✦ Surface-Surface Tissue Reconstruction and Visualization for MRI/CT Engineering Design, Journal of Medical Imaging and Health Informatics, Vol 6 No 10, 2016 (**ISI impact factor 0.832 – Q2**)
- ✦ User popularity-based packet scheduling for congestion control in ad-hoc social networks, Journal of Computer and System Sciences, Vol 82 No 2 pp 93- 112, 2016 (**ISI impact factor 1.583 – Q1**)
- ✦ A Greedy Model with Small World for Improving the Robustness of Heterogeneous Internet of Things, Computer Networks 2016 Vol 101 pp 127- 143, 2016 (**ISI impact factor 1.442 – Q2**)
- ✦ Performance Analysis of Medical Image Compression Using Various Wavelet Techniques, Journal of Medical Imaging and Health Informatics, Vol 6 No 10, 2016 (**ISI impact factor 0.832 – Q2**)
- ✦ Trust-aware recommendation for improving aggregate diversity, New Review of hypermedia and multimedia, Vol 21 No 3-4, pp 242-258, 2015 (**ISI impact factor 0.632 – Q2**)
- ✦ A Stepwise Self-adaptive Model for Improving Cloud Efficiency Based on Multi-Agent Features” Journal of software, Vol 10 No 8, pp 1037-1044, 2015 (**SJR 0.2 – Q4**)

*****All the columns need to be filled in.