

Curriculum Vitae

Qassim Mohamed Soliman Al Mahmoud

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Education

2009-2014	University of Bucharest, PhD in Network and Information Security , Romania <i>Thesis Title: Fair $-(t, n)$ Verifiable Secret Sharing Scheme</i>
2006-2007	Arab Academy for Banking & Financial Sciences, Master in Information Systems & Technology , Jordan
2004-2006	Arab Academy for Banking & Financial Sciences, High Diploma in Information Systems & Technology , Jordan
1997-2002	University of Baghdad, Bachelor in Mathematics , Iraq

Academic Experience

2014-Present	King Khalid University, Lecturer & Postgraduate Course Coordinator , Saudi Arabia <i>Topics Taught:</i> <ul style="list-style-type: none">○ <i>Compiler Theory</i>○ <i>Network Security Fundamentals</i>○ <i>Information Security and Cryptography</i>○ <i>Computer Vision</i>○ <i>Artificial Intelligence</i>○ <i>Algorithm Design & Analysis</i>○ <i>Modeling and Simulation</i>○ <i>Software Engineering</i>○ <i>Data Warehouse & Mining</i>○ <i>Computer Graphics</i>○ <i>Programming Language II (Java)</i>○ <i>Computing Ethics</i>
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Topics of Interest

Cryptography	Classical Cryptosystems, Stream Ciphers, Private and Public Key Cryptography, Cryptosystems based on Coding Theory, Elliptic Curve Cryptography
Security Protocols	Identification and Authentication Protocols, Identity Based Encryption, Secret Sharing
Network Security	
Coding Theory	
Advanced Algebra and Number Theory	
Big Data	

Topics of Interest

Arabic & English [Advanced]

List of Publications

Papers published in Proceedings of International Conferences or Workshops

- Q. AL Mahmoud, Eliminating Data Deployment by Analyzing Xpath References in XML Access Control, In: Proceedings of the 6th International Scientific and Technical Conference (CSIT'2011). Lviv: Ministry of Education, Science, Youth and Sports of Ukraine, Lviv Polytechnic National University, Institute of Computer Science and Information Technologies, 2011, pp. 309-313

Papers published in International Journals

- Q. AL Mahmoud, Secret Sharing Scheme based on Chinese remainder theorem and Polynomials interpolation, International Journal of Computer Science and Information Security (Vol. 9 No. 11 NOV 2011), pp. 113-118
- Q. AL Mahmoud, Secret Sharing Scheme Based on Integer Representation, Journal of Information Systems and Operations Management (Vol.7 No.1 MAY 2013), pp. 192-199
- Q. AL Mahmoud, Verifiable Secret Sharing Scheme Based on Integer Representation, Journal of Information Systems and Operations Management (Vol.7 No.2 December 2013), pp. 350-359
- Q. AL Mahmoud, Polynomial Differential based-Strong (n, t, n) Verifiable Secret Sharing, IET Information Security, Volume 7, Issue 4, December 2013, p. 312 317 [ISI Thomson Reuters, indexed IEEE – Impact factor 0.949]
- Q. AL Mahmoud, Polynomial Differential-based information theoretically secure Verifiable Secret Sharing Scheme, International Journal of Information Technology and Computer Science (IJITCS), (Vol. 6, No. 12), PP.18-23. [ISI Web of Knowledge – Impact factor 0.07]
- Q. AL Mahmoud, A novel verifiable secret sharing without a single cheater and detection and identification of cheaters group, submitted to Int'l J. of Communications, Network and System Sciences
- Q. AL Mahmoud, Information-theoretically secure fair (t, n)-SSS, submitted to Journal of Zhejiang University-SCIENCE
- Mahmoud, Q. A., Besoul , K., & Alhalaybeh, A. (2023). UNCONDITIONALLY SECURE FAIR (t, n)-SECRET SHARING SCHEME. *Advances and Applications in Discrete Mathematics*, 38(1), 127–143. <https://doi.org/10.17654/0974165823024>
- Besoul, K., Mahmoud , Q. A., & Alhalaybeh, A. (2023). INFORMATION THEORETICALLY SECURE KEY EXCHANGE ALGORITHM. *Advances and Applications in Discrete Mathematics*, 38(1), 111–125. <https://doi.org/10.17654/0974165823023>.

Patent and Trademark

- Qassim Mohammed Soliman Al Mahmoud, Suleiman Abdallah Suleiman Odat, Fawaz Abdulrahman Mohammed Alsheri, Haytham Eltayeb Elwaseila. (December 14, 2021). Private and public key exchange method preventing man-in-the-middle attack without electronic certificate and digital signature. (Patent number: 11201732). <https://patents.justia.com/inventor/qassim-mohammed-soliman-al-mahmoud>

Awards

- Top prize at 2020 King Khalid University Science Competitions, Qassim Al Mahmoud & Fawaz Alsheri
Project Title: Cryptography Secure Algorithm

Reviewer @

IET Information Security Journal (ISI Journal)

International Journal of Mathematics and Computer Science (ISI Journal)