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QFG11/0110 - 3.1E

Curriculum Vitae Form - Procedures of Appointment and Promotion Committee

CURRICULUM VITAE

Full name: Ahmad Salameh Salman Abusukhon

Computer Science/Science and Information Technology, Al-Zaytoonah University of Jordan, Amman, Jordan. Phone: +962 0777669438 Fax : +962-6-4291432 E-mail : ahmad.abusukhon@zuj.edu.jo Homepage: https://www.zuj.edu.jo/



1- Personal Data

Date of Birth: 30-11-68 Nationality: Jordanian

2- Education

- Ph.D. (Computer Science) 2009, University of Sunderland, Sunderland, United Kingdom (UK)
- M.Sc. (Computer Science) 2001, The University of Jordan, Amman, Jordan
- B.Sc. (Computer Science) 1990, Mu'tah University, Al-Karak, Jordan.

3- Ph.D. Dissertation

An Investigation into improving the load balance and query throughput of distributed information retrieval system, The University of Sunderland, Sunderland, The United Kingdom (UK).

4- Employment

Academic Positions

- Associate Professor, Computer Science, Al-Zaytoonah University of Jordan, Amman, Jordan. Dec. 26, 2016 2022
- Assistant Professor, Computer Science, Al-Zaytoonah University of Jordan,





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Amman Jordan. Dec. 28, 2009-2016

- Graduate Assistant, Computer Science, The Hashemite University, Zarqa March, 03, 2001 March, 03, 2004.
- Associate Professor (as part time), Computer Science, The University of Jordan, Amman, Jordan. Sep. 15, 2018- Feb. 05, 2019.

Administrative Positions

• Team Leader for ASIC committee - the "B" standard: Management and Staff Resources- at Al-Zaytoonah University of Jordan. ASIC is standards for Accreditation for institutes such as universities, colleges and schools.

5- <u>Research Interests</u>

Dr. Ahmad Abusukhon interests include, but not limited to the following fields in the computer science domain:

- Internet of Things (IoT)
- Cryptography
- Computer Network Security
- Distributed Systems
- Parallel Computing
- Mobile Applications

6- Membership in Scientific Societies and Associations

- Member of the British Computer Society (BCS).

7- Honors and Awards

- Appears in the AD Scientific Index 2023 (Jordan Top 3000 Scientists)

https://www.adscientificindex.com/pdfs/toplists/jordan-topscientists.pdf?v1660104457

- -Reviewer certificate: Journal of Network and Computer Applications.
- Reviewer Certificate: Expert Systems (2021).
- Special Session Chair certificate: The Global Research Conference 2020 (GRaCe 2020)

https://easychair.org/cfp/poster_download.cgi?cfp=GRaCe2020

-Reviewer certificate: The 7th International Conference on Information Technology (ICIT 2015), 2017, 2019, 2021.

[http://icit.zuj.edu.jo/icit13/index.html] [http://icit.zuj.edu.jo/icit15/Committees.aspx]



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[http://icit.zuj.edu.jo/icit17/Committees.aspx]

- Smart phones developer certificate granted by Pearson (Pearson Assured), The United Kingdom (UK).

8- Fellowships and Scholarships

- A scholarship for the award of Ph.D granted by Al-Zaytoonah University of Jordan in 2005.

9. <u>Teaching Experience</u>

- Graduate Courses (Master Students)
 - Advanced Wireless Computer Networks

Work For	From	То	Position	Subjects	
The Hashemite University	2000	2004	Lecturer	Database, Java and C++	
AL-Zaytoonah University	2005	2007	Lecturer	■Information Security	
				■Visual Basic ■Computer	
				skills	
Al-Zaytoonah University	2009	Now	Assistant	■Network programming	
			and	(using Java).	
			Associated	■Introduction	
			Prof.	to Computer Network.	
				■Advanced computer	
				network.	
				Introduction to Java.	
				Java Advance	
				■E-commerce.	
				■Internet application	
				programming using	
				-Dreamwaver and PHP	
				■Discrete mathematics.	
				■Distributed Systems.	
				■ HTML.	
				■ Wireless Networks (Master	
				Level)	
The University of Jordan	9-2020	2-2020	Associate	■Network programming	
			Prof.	 Distributed systems 	

• Undergraduate Courses (Bach. Students)

Dr. Ahmad Abusukhon is also able to teach Android courses (Basic, Intermediate and Advance level). Besides, he can teach Internet of Things using Arduino Uno,





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NodeMCU and various types of sensors which are connected with the Firebase database (the cloud), and lead groups of research (e.g. Master degree) in this domain. In addition, he has the ability to build various Internet of Things (IoT) applications for home and campus automation.

10. Supervision of Graduate Research (Master Students)

Dr. Ahmad has successfully supervised many Master students as described in the list below:

Student Name	Thesis Title	Year
Ali Bassam Al-thaher	An Efficient and Secure	2018/2019
	Key Exchange Protocol	
	Based on Elliptic Curve	
	and Security Models.	
Thaer Mohammad Taha	An Enhanced Lightweight	2018/2019
Abu Qattam	Authenticated Elliptic	
	Curve Key Exchange	
	Protocol for Securing	
	Internet of Things	
Kholoud Ismail Odeh	A Secure and Efficient	June/2020
Saleh	Authenticated Key	
	Agreement Protocol	
	Based on Elliptic Curve	
	for Securing the Fog	
	Computing Environment	

11. Projects Grants and Funds

Project-Name	Year	Grantor Organization	Grant
			Amount
1. An Intelligent Course	2021	Al-Zaytoonah	5000 JD
Recommender System for		University of Jordan	
Undergraduate Students Based on			
Learning Hidden Student			
Aptitudes.			
2. Smart University –Power	2019	Al-Zaytoonah	14100 JD
Conservation Using the Internet		University of Jordan	
of Things (Microcontroller,			
Sensor, and Smart Programs for			
Data Analysis and Decisions			
Making)			
3. Parallel Information Retrieval	2007	Al-Zaytoonah	11000 JD



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University of Jordan

12. Patents

One patent is under processing.

13. <u>Membership of Committees</u>

- Member of the Quality Assurance Committee at Al-Zaytoonah University of Jordan. **Standard 3. (Teaching processes)**

- Member of ASIC quality assurance committee at Al-Zaytoonah University of Jordan. **Standard B (Governance, Management and Staff Resources)**.

- Head of examination and evaluation committee/computer science at Al-Zytoonah University.
- Head of Programming Committee at the Computer Science Dept.

- Member of the British Computer Society (BCS).

14. Professional and Scientific Meetings

Scientific Meetings Organized

Scientific Meetings Organized:

- Organizer of a workshop entitled as "New Techniques in Computer Networks" held in Al-Zaytoonah University of Jordan. Organized by Dr. Ahmad Abusukhon, 2015.

Participation in Scientific meetings:

- Workshop by "Microsoft", the University of Jordan, 2015.

- Meeting with IEEE organizers via zoom. The meeting is about how to successfully publish your paper with IEEE.

Participation in Scientific meetings

- Workshop by "Microsoft", the University of Jordan, 2015.
- - Conference meeting are listed below in section 17 (publications).

15. Participation in or organization of curricular and/or extra-curricular activities

- **Organizing Committee (Publication and Publicity Chair)**, The International Workshop for Software Defined Everything (SDE2020) in conjunction with the Seventh International Conference on Software Defined Systems (SDS-2020), <u>https://emergingtechnet.org/SDE2020/</u>, Paris, France,2020.

- Local Managing Editor of the International Journal of Advances in Soft Computing and its Applications (ISSN: 2074-8523), 2020-2021.





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-Chair of special session in the GRaCE 2020, 2020 Malaysia. The special session is entitled as "Special Session 5: Internet of Things Revolution: Challenges, Intelligent Applications and Advance Innovations "

https://easychair.org/cfp/poster_download.cgi?cfp=GRaCe2020

- **Reviewer:** I acted as a reviewer judging the promotion of a staff member working for the Public Authority for Applied Education and Training in Kuwait who applied for promotion from Assistant Prof. to Associate Prof.

- **Chair Session** in the World Congress on Engineering and Computer Science 2016-International Conference on Soft Computing and Applications 2016 (ICSCA), San Francisco, USA.
- Reviewer for the Journal of Network and Computer Applications.
- **Reviewer** in International Journal of Innovative Research in Computer and Communication Engineering (IJIRCCE)- 2015.

- **Reviewer** in the International conference on Information Technology ICIT 2013, ICIT 2015, ICIT 2017, ICIT 2019 and, ICIT 2023 at Al-Zaytoonah University of Jordan.

[http://icit.zuj.edu.jo/icit13/index.html] [http://icit.zuj.edu.jo/icit15/Committees.aspx] [http://icit.zuj.edu.jo/icit17/Committees.aspx].

- Publicity Committee ICIT 2021. [http://icit.zuj.edu.jo/icit2021/Committes.html]
- **Reviewer:** I acted as a reviewer judging the work of a staff member working in Khalifa University-Kuwait for promotion from Assistant Prof. to Associate Prof.
- Guest reviewer for the KSII Transactions on Internet and Information Systems.
- -Organizer of a Workshop entitled "New Techniques in Computer Networks" held in Al-Zaytoonah University of Jordan, 2015.
- A leader of a team working on Quality Assurance system (ASIC system) -2022-2023.

16. Training courses and other skills

Course title	No. of hours	Place / country	Date
Android (3 levels)	98	Pioneers Academy/	7/3-24/10-
-Introduction		Jordan	2020
-Intermediate		Address :	
-Advanced		Q.Rania Street, Amman	
		- Jordan	
		+962 (6) 516 - 64 - 22	
		+962 (6) 516 - 64 - 33	
		+962 (6) 515 - 08 - 43	
		Email: info@pioneers-	
		academy.com	
		Mobile +962(79)707 -	
		87 - 77	
Smart phones developer using	98	Pearson (Pearson	Certificate
android (Certificate)		Assured), The United	





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		Kingdom (UK)	
Machine Learning using Python	40 hours	Pioneers Academy	1/9-25/10-
			2020
Deep learning using Python	20 hours	Pioneers Academy	27/10-
			9/12-2020
Image processing (using	52 hours	Pioneers Academy	29/9-16/3-
MATLAB). Basic & advance			2021
level			
Arduino Uno (Internet of	30 hours	Al-Baheth Center	18/06-4/7-
Things)			2013
Cisco Certified Network	About 50	Knowledge Arabia.	
Associate	hours	Jordan-Amman	

17. Publications

Papers in refereed journals

A. Abusukhon Intelligent Shoes for Detecting Blind Falls Using the Internet of Things. KSII Transactions on Internet & Information Systems. Vol. 17, No. 9, 2023.
 A. Abusukhon, A. Al-Fuqaha, B. Hawashin, A Novel Technique for Detecting Underground Water Pipeline Leakage Using the Internet of Things. Journal of Universal Computer Science (JUCS). Vol. 29, No. 8. 2022.

■ A. Abusukhon, IOT Bracelets for Guiding Blind People in an Indoor Environment, in Journal of Communications Software and Systems, vol. 19, no. 2, pp. 114-125, April 2023, doi: 10.24138/jcomss-2022-0160.

■ B. Hawashin, A. Abusukhon An Efficient Course Recommender Using Deep Enriched Hidden Student Aptitudes. ICIC Express Letters, Part B: Applications, 2022.

■ A. Abusukhon (2021) Towards Achieving a Balance between the User Satisfaction and the Power Conservation in the Internet of Things, IEEE Internet of Things Journal, doi: 10.1109/JIOT.2021.3051764. impact factor 9.936. Published by IEEE. https://ieeexplore.ieee.org/document/9326414. [Science Citation Index].

■ A. Abusukhon, Z. Mohammad, A. Al-Thaher (2021) An authenticated, secure, and mutable multiple-session-keys protocol based on elliptic curve cryptography and text_to-image encryption algorithm. Concurrency and computation practice and experience. [Science Citation Index].

■ Ahmad Abusukhon, Bilal Hawashin and Mohammad Lafi (2021) An Efficient Algorithm for Reducing the Power Consumption in Offices Using the Internet of Things, International Journal of Advances in Soft Computing and its Applications (IJASCA). http://ijasca.zuj.edu.jo/Volumes.aspx

A. Abusukhon, N. Anwar, M. Mohammad, Z., Alghanam, B. (2019) A hybrid network security algorithm based on Diffie Hellman and Text-to-Image Encryption algorithm. Journal of Discrete Mathematical Sciences and Cryptography. 22(1) pp. 65-81. (SCOPUS). https://www.tandfonline.com/doi/abs/10.1080/09720529.2019.1569821
 A. Abusukhon, B.Wawashin, B. (2015) A secure network communication protocol



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based on text to barcode encryption algorithm. International Journal of Advanced Computer Science and Applications (IJACSA). (ISI indexing).

https://thesai.org/Publications/ViewPaper?Volume=6&Issue=12&Code=IJACSA&Seri alNo=9

■ A. Abusukhon, Talib, M., and Almimi, H. (2014) Distributed Text-to-Image Encryption Algorithm. International Journal of Computer Applications (IJCA), 106 (1). [available online at : https://www.semanticscholar.org/paper/Distributed-Text-to-Image-Encryption-Algorithm-Ahmad-

Mohammad/0764b3bd89e820afc6007b048dac159d98ba5326]

■ A. Abusukhon (2013) Block Cipher Encryption for Text-to-Image Algorithm. International Journal of Computer Engineering and Technology (IJCET). 4(3), 50-59. http://www.zuj.edu.jo/portal/ahmad-abu-alsokhon/wpcontent/uploads/sites/15/BLOCK-CIPHER-ENCRYPTION-FOR-TEXT-TO-IMAGE ALGORITHM.pdf

■ A. Abusukhon, Talib, M. and Nabulsi, M. (2012) Analyzing the Efficiency of Textto-Image Encryption Algorithm. International Journal of Advanced Computer Science and Applications (IJACSA)(ISI indexing), 3(11), 35 – 38.

https://thesai.org/Publications/ViewPaper?Volume=3&Issue=11&Code=IJACSA&Seri alNo=6

■ A. Abusukhon, Talib M., Issa, O. (2012) Secure Network Communication Based on Text to Image Encryption. International Journal of Cyber-Security and Digital Forensics (IJCSDF), 1(4). The Society of Digital Information and Wireless Communications (SDIWC) 2012. https://www.semanticscholar.org/paper/SECURE NETWORK-COMMUNICATION-BASED-ON-TEXT-TO-IMAGE-Abusukhon-Talib/1d122f280e0d390263971842cc54f1b044df8161

■ A. Abusukhon, M. Talib (2011) Analyzing the Load Balance of Term-based Partitioning, International Journal of Advanced Computer Science and Applications (IJACSA), 2(1). pp 18-25. (ISI indexing).

https://thesai.org/Publications/ViewPaper?Volume=2&Issue=1&Code=IJACSA&Serial No=3

■ A. Abusukhon, M. Talib (2010) Improving Load Balance and Query Throughput of Distributed IR Systems. International Journal of Computing & ICT Research (IJCIR), 4(1), pp. 23-29, June 2010. https://www.semanticscholar.org/paper/Improving-Load-Balance-and-Query-Throughput-of-IR-

Abusukhon/f530a4062e0a91fab755c1dbd481d190899d3b0d

■ A. Abusukhon, Oakes, M.P., Ayman M., A. (2009) Performance Analysis of Distributed IR Systems: Document-based, Term-based and Hybrid Partitioning. International Journal of Information Studies (IJIS), 1(1), P. 40-49.

https://www.researchgate.net/publication/283796826_Performance_Analysis_of_Distrib uted_IR_Systems_Document-based_Term-based_and_Hybrid_Partitioning.

■ Zevad Mohammad, Ahmad Abusukhon and Marzoog A. Al-Maitah (2017) A

COMPARATIVE PERFORMANCE ANALYSIS OF ROUTE REDISTRIBUTION

AMONG THREE DIFFERENT ROUTING PROTOCOLS BASED ON OPNET SIMULATION. International Journal of Computer Networks & Communications (IJCNC) Vol.9, No.2, March 2017. https://aircconline.com/ijcnc/V9N2/9217cnc04.pdf



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■ Zeyad Mohammad, **Ahmad Abusukhon**, Adnan A. Hnaif, Issa S., Al-Otom (2017) Performance Analysis of Route Redistribution among Diverse Dynamic Routing Protocols based on OPNET Simulation. (IJACSA). International Journal of Advanced Computer Science and Applications, vol. 8, no. 3, 2017.

https://thesai.org/Downloads/Volume8No3/Paper_45-

Performance_Analysis_of_Route_Redistribution_among_Diverse_Dynamic.pdf

■ Rasmi, M., **Abu sokhon**, A. Sh.Daoud, M., Al-Mimi, H. (2016) A Survey on Single Scalar Point Multiplication Algorithms for Elliptic Curves over Prime Fields. IOSR Journal of Computer Engineering (IOSR-JCE), 18(2) pp 31-47.

http://www.zuj.edu.jo/portal/ahmad-abu-alsokhon/wp-content/uploads/sites/15/A Survey-on-Single-Scalar-Point-Multiplication-Algorithms-abstract.pdf

■ Nabulsi, M., Abusukhon, A. (2013) An investigation into the relationship between logical operations". International Journal of VLSI Design and Communication Systems (VLSICS). https://www.semanticscholar.org/paper/AN-INVESTIGATION-INTO-THE RELATIONSHIPS-BETWEEN-Nabulsi-

Abusukhon/6113d08f6881136f8b0f8c2ae11e3da62fadd4b1

■ M. Talib and A. Abusukhon (2008) Graphics Technology to Model the Problems of Calculus Using Analytical Geometry, Journal of System Analysis, Management and Information Technology (JSAMIT), Vol 5, Kharkiv, NTU "KhPI", pp 56-65, May 2008. http://repository.kpi.kharkov.ua/bitstream/KhPI-

Press/32466/1/vestnik_KhPI_2008_5_Talib_Graphics.pdf.

There is also one paper under review.

Conference Presentations

■ A. Abusukhon and Al ghannam, B. The Role of the Internet of Things in Monitoring Air Pollution-A Survey. 2023 International Conference on Information Technology (ICIT). Pp. 583-585. 2023.

■ A. Abusukhon, F. Altamimi (2021) Water Preservation Using IoT: A proposed IoT System for Detecting Water Pipeline Leakage. The 2021 International Conference on Information Technology (ICIT). pp. 115-119, IEEE.

■ Z. Mohammad, V. Nyangaresi and A. Abusukhon, "On the Security of the Standardized MQV Protocol and Its Based Evolution Protocols," 2021 International Conference on Information Technology (ICIT), Amman, Jordan, 2021, pp. 320-325, doi: 10.1109/ICIT52682.2021.9491775.

■ Z. Mohammad, A. A. Alkhatib, M. Lafi, A. Abusukhon, D. Albashish and J. Atwan, "Cryptanalysis of a Tightly-Secure Authenticated Key Exchange without NAXOS Approach Based on Decision Linear Problem," 2021 International Conference on Information Technology (ICIT), Amman, Jordan, 2021, pp. 218-223, doi: 10.1109/ICIT52682.2021.9491743.

■ B. Hawashin, S. Alzubi, A. Mughaid, F. Fotouhi, **A. Abusukhon** (2020) An efficient cold start solution for recommender systems based on machine learning and user interests. The 2020 Seventh International Conference on Software Defined Systems (SDS). pp 220-225. IEEE.



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■ A. Abusukhon, Al-Zu'bi, S. (2020). "New Direction of Cryptography: A Review on Text-to-Image Encryption Algorithms Based on RGB Color Value". 2020 Seventh International Conference on Software Defined Systems (SDS)SDS 2020: pp. 235-239, Paris – France. https://www.semanticscholar.org/paper/New-Direction-of-Cryptography%3A-A-Review-on-Based-on-Abusukhon-

AlZu%E2%80%99bi/ad61651f4ea5d43ef455b82a3c452f821d4a4b51.

■ A. Abusukhon, Lafi, M. & Hawashin, B. (2020). "An intelligent IoT system for controlling office appliances - A trade-off between power conservation and the user satisfaction". GRaCe 2020conference, Malaysia. https://terengganu.uitm.edu.my/grace2020/images/SlideVC/GRaCe_2020_slidepresenta tion_94.pdf.

■ A. Abusukhon, Dasooqi, Z, and Talib, M. (2016) A Novel Network Security Algorithm Based on Encrypting Text into a White-page Image. Proceeding of The World Congress on Engineering and Computer Science 2016. International Conference on Internet and Multimedia Technologies 2016 (ICIMT), 19-21 Oct. 2016, USA, Berkeley – San Francisco. http://www.zuj.edu.jo/portal/ahmad-abu-alsokhon/wpcontent/uploads/sites/15/A-Novel-Network-Security-Algorithm-Based-on-Encrypting-Text-into-a-White-Page-Image-Abstract1.pdf.

■ B. Hawashin, A. Abusukhon, and Ayman Mansour (2015) "An Efficient User Interest Extractor for Recommender Systems ". In the proceeding of : The World Congress on Engineering and Computer Science 2015 (WCECS 2015). http://www.iaeng.org/publication/WCECS2015/WCECS2015_pp791-795.pdf.

■ A. Abusukhon, Talib, M. (2012) A novel Network Security Algorithm Based on Private Key Encryption. The International Conference on Cyber Security, Cyber Warfare and Digital Forensic (CyberSec2012). https://ieeexplore.ieee.org/document/6246080.

■ A. Abusukhon, and Oakes, M.P. (2008a) An Investigation into Query Throughput and Load Balance Using Grid IR. In Proceedings of the 2nd BCS- IRSG Symposium on Future Directions in Information Access FDIA 2008. BCS London Office, UK, 22nd September 2008, pp. 38-44. eWic: UK. https://dl.acm.org/doi/10.5555/2227920.2227925.

■ A. Abusukhon, A., Oakes, M.P., Talib, M. and Abdalla, A. (2008b) Comparison Between Document-based, Term-based and Hybrid Partitioning. In: Snasel, V., Pokorny, J., Pichappan, P., El-Qawasmeh, E., and Ariwa, E. (Eds.). Proceedings of the First IEEE International Conference on the Application of Digital Information and Web Technologies, ICADIWT 2008. Ostrava, Czech Republic 4-6 August 2008, pp. 90-95. IEEE Xplore. https://www.semanticscholar.org/paper/Comparison-between-documentbased%2C-term-based-and-Abusukhon-

Oakes/48ae4ed24a6a31d894d4a59ff7548ca1263096ed.

■ A. Abusukhon, Talib, M. and Oakes, M.P. (2008c) An Investigation into Improving the Load Balance for Term-Based Partitioning. In: Kaschek, R., Kop, C., Steinberger, C., and Fliedl, G. (Eds.). Proceedings of UNISCON 2008, the 2nd International United Information Systems Conference. Klagenfurt, Austria 22-25 April 2008. LNBIP 5, vol.



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5, pp. 380-392, Springer-Verlag Berlin Heidelberg 2008: Germany. https://link.springer.com/chapter/10.1007/978-3-540-78942-0_38.

■ A. Abusukhon, A., Talib, M. and Oakes, M.P. (2008d) Improving the Load Balance for Hybrid Partitioning Scheme by Directing Hybrid Queries. In: Burkhart, H. (Eds.). Proceedings of the IASTED International Conference on Parallel and Distributed Computing and Networks as part of the 26th IASTED International Multi-Conference on APPLIED INFORMATICS. Innsbruck, Austria 12-14 February 2008, pp. 238-244. ACTA press: USA. https://www.zhangqiaokeyan.com/academic-conferenceforeign_parallel-distributed-computing-networks_thesis/02051484466.html.

Books and Book Chapters

Abusukhon, A. (1996), "Oracle basic concepts". Majdalawi, Amman Jordan.

■ Abusukhon, A. (2012), "Wired and Wireless Networks in Java". (Owned by the publisher Dr. Ahmad Abusukhon).

■ LNBIP 5, vol. 5, pp. 380-392, Springer-Verlag Berlin Heidelberg 2008: Germany. https://link.springer.com/book/10.1007/978-3-540-78942-0.

Many thanks for reading Dr. Ahmad's C.V.