



### المعلومات الشخصية

	الاسم الثلاثي	حيدر احمد عبدالمحسن
	البريد الالكتروني	hayderaam@stu.edu.iq
	الشهادة	دكتوراه
	اللقب العلمي	استاذ مساعد
الاختصاص العام	هندسة الحاسبات	
الاختصاص الدقيق	شبكات الحاسوب	
الاهتمامات البحثية	الشبكات، انترنت الاشياء	

### الشهادات والالقب العلمية

الشهادة	تاريخها	عنوان الرسالة / الاطروحة	الجامعة	البلد
الدكتوراه	2017	Congestion Control in Wireless Sensor and 6LoWPAN Networks: Toward the Internet of Things	جامعة ليدز	المملكة المتحدة
الماجستير	2011	Fuzzy Logic Based Transmission Power Control in Wireless Sensor Networks	جامعة البصرة	العراق

### الدورات التدريبية

اسم الدورة	مكان الدورة	مدة الدورة	تاريخ الدورة
Expression Web	المعهد التقني القرنة	5 ايام	2020/2/5
ربط شبكة محلية	المعهد التقني القرنة	5 ايام	2020/1/22

### المناصب الادارية

الوظيفة (تبدأ من الوظيفة الحالية)	من الفترة	الى الفترة
معاون العميد	2021/4/13	لغاية الان
رئيس قسم تقنيات انظمة الحاسوب	2017/10/10	2021/4/12



النشاط البحثي	
مكان وتاريخ النشر	اسم النشاط
IET Communications Journal (2019)	"A Game Theoretic Handover Optimization for Dense Small Cells Heterogeneous Networks."
Inventions 4, no. 2 (2019): 30.	"Adaptive Control Synchronization of a Novel Memristive Chaotic System for Secure Communication Applications."
IEEE Sensors Journal.(2019)	"RPL-based routing protocols in IoT applications: A Review."
Technological Forecasting and Social Change Journal, Elsevier, 2018.	"Centralized simulated annealing for alleviating vehicular congestion in smart cities",
Wireless Networks, Springer, 2018.	"Congestion Control in Wireless Sensor and 6LoWPAN Networks: Toward the Internet of Things",
ICT Express Journal, Elsevier, 2018.	"Analytical modelling of congestion for 6LoWPAN networks",
IEEE Sensors Journal, 2018, Volume 18, Issue 6.	"A Game Theoretic Optimization of RPL for Mobile Internet of Things Applications",
IEEE Internet of Things Journal. 2017, Volume 4, Issue 6.	"Optimization-Based Hybrid Congestion Alleviation for 6LoWPAN Networks",
Australian Journal of Electrical and Electronics Engineering, 2017, Volume 13, Issue 4.	"Comparison of 6LoWPAN and LPWAN for the Internet of Things",
IEEE internet of things journal, 2017, Volume 4, Issue 3.	"Congestion Control for 6LoWPAN Networks: A Game Theoretic Framework",
Published in LAP LAMBERT Academic Publishing, November 2015. (ISBN: 978-3659811579).	"Fuzzy Logic Based Transmission Power Control in Wireless Sensor Networks", (BOOK)
IJCCCE Journal, 2013, Volume 13, Issue 1.	"Fuzzy Duty Cycle Adaption Algorithm for IEEE 802154 Star Topology Networks"
Basrah Journal of Science, 2013, Volume 31, Issue 3.	"A Sender/Receiver Pair Transmission Power Control for Wireless Sensor Networks",



النشاطات ( المشاركات في المؤتمرات والندوات وغيرها )			
اسم النشاط	مكانه وزماته		
"Energy and RSSI based fuzzy inference system for cluster head selection in wireless sensor networks."	In Proceedings of the ACM International Conference on Information and Communication Technology, pp. 102-105. ACM, 2019.		
"Coalition Game for Emergency Vehicles Re-Routing in Smart Cities",	10th Sensor Array and Multichannel Signal Processing Workshop (SAM), 2018.		
"Dynamic RPL for Multi-Hop Routing in IoT Applications",	13th Annual Conference on Wireless On-demand Network Systems and Services (WONS), IEEE, 2017.		
"Congestion Analysis for Low Power and Lossy Networks",	15 <sup>th</sup> Wireless Telecommunications Symposium (WTS), IEEE, 2016.		
"Congestion-Aware RPL for 6LoWPAN Networks",	15 <sup>th</sup> Wireless Telecommunications Symposium (WTS), IEEE, 2016.		
"A Sender/Receiver-Coupled Fuzzy Logic System for Transmission Power Control in Wireless Sensor Networks"	The IEICE Technical Committee on Internet Architecture, Japan, 2010.		
الجوائز وكتب الشكر والشهادات التقديرية للسنة الدراسية			
العنوان	التاريخ	الجهة المانحة	سبب المنح
شهادة تقديرية	2007	جامعة البصرة، العراق / رئيس الجامعة	الطالب الاول على كلية الهندسة للعام 2007/2006
كتاب شكر	2007	جامعة البصرة، العراق / رئيس الجامعة	الطالب الاول على كلية الهندسة للعام 2007/2006
الطالب الاول على كلية الهندسة	2007	جامعة البصرة، العراق / رئيس الجامعة	الطالب الاول على كلية الهندسة للعام 2007/2006
شهادة تقديرية	2008	كلية الهندسة، جامعة البصرة، العراق / عميد الكلية	الطالب الاول على القسم للعام 2008/2007
كتاب شكر	2008	نائب رئيس الوزراء العراق	
جائزة افضل بحث	2016	15 <sup>th</sup> Wireless Telecommunications Symposium, London, UK	افضل بحث في المؤتمر
جائزة افضل اطروحة دكتوراه	2017	قسم هندسة الالكترونيك والكهرباء، جامعة ليدز، المملكة المتحدة	افضل اطروحة دكتوراه
كتاب شكر عدد 3	2018	الجامعة التقنية الجنوبية، العراق / رئيس الجامعة	نشر بحث علمي
كتاب شكر	2019	الجامعة التقنية الجنوبية، العراق / رئيس الجامعة	نشر بحث علمي



الخبرات التدريسية	
المرحلة الدراسية	اسم المادة التي درستها
الاولى	التصميم المنطقي
الاولى	البرمجة بلغة بايثون

الإشراف على الدراسات العليا			
عنوان الأطروحة	الكلية / القسم	الجامعة	الطالب



**Name :** Hayder Ahmed Abdulmohsin  
**College / Institute :** Technical Institute / Qurna  
**Department :** Computer System Techniques Department  
**Position :** Assistant Dean  
**Degree :** PhD  
**Other Affiliations :**  
**E-mail :** hayderaam@stu.edu.iq

### Education

B.Sc. in Computer Engineering, First Honors, 2008

M.Sc. in Computer Engineering, 2011

PhD in Computer Engineering (Computer Networking), 2017

### Teaching Activities

Logic Design

Python Programming



Membership of Scientific Communities

Scholarly and professional Academic Activities and Service

Publications
"Hybrid game approach-based channel congestion control for the Internet of Vehicles." IET Wireless Sensor Systems 11, no. 1 (2021): 32-44.
"Non-cooperative game based congestion control for data rate optimization in vehicular ad hoc networks." Ad Hoc Networks 107 (2020).
"Encoding Query Based Lightweight Algorithm for Preventing SQL injection attack." Journal of Basrah Researches ((Sciences)) 46, no. 1 (2020).
"Congestion control in wireless sensor and 6LoWPAN networks: toward the Internet of Things." Wireless Networks 25, no. 8 (2019): 4493-4522.



"Game theoretic handover optimisation for dense small cells heterogeneous networks." IET Communications 13, no. 15 (2019): 2395-2402.
"RPL-based routing protocols in IoT applications: A Review." IEEE Sensors Journal 19, no. 15 (2019): 5952-5967.
"Adaptive Control Synchronization of a Novel Memristive Chaotic System for Secure Communication Applications." Inventions 4, no. 2 (2019): 30.
"Centralized simulated annealing for alleviating vehicular congestion in smart cities." Technological Forecasting and Social Change 142 (2019): 235-248.
"Energy and RSSI based fuzzy inference system for cluster head selection in wireless sensor networks." In Proceedings of the International Conference on Information and Communication Technology, pp. 102-105. 2019.
"Coalition Game for Emergency Vehicles Re-Routing in Smart Cities", 10th Sensor Array and Multichannel Signal Processing Workshop (SAM), 2018.
"Analytical modelling of congestion for 6LoWPAN networks", ICT Express Journal, Elsevier, 2018.
"A Game Theoretic Optimization of RPL for Mobile Internet of Things Applications", IEEE Sensors Journal, 2018, Volume 18, Issue 6.
"Optimization-Based Hybrid Congestion Alleviation for 6LoWPAN Networks", IEEE Internet of Things Journal. 2017, Volume 4, Issue 6.
"Comparison of 6LoWPAN and LPWAN for the Internet of Things", Australian Journal of Electrical and Electronics Engineering, 2017, Volume 13, Issue 4.
"Congestion Control for 6LoWPAN Networks: A Game Theoretic Framework", IEEE internet of things journal, 2017, Volume 4, Issue 3.
"Dynamic RPL for Multi-Hop Routing in IoT Applications", 13th Annual Conference on Wireless On-demand Network Systems and Services (WONS), IEEE, 2017.
Congestion Analysis for Low Power and Lossy Networks", 15 <sup>th</sup> Wireless Telecom-“munications Symposium (WTS), IEEE, 2016.
Congestion-Aware RPL for 6LoWPAN Networks", 15 <sup>th</sup> Wireless Telecommunica-tions “Symposium (WTS), IEEE, 2016.
"Fuzzy Logic Based Transmission Power Control in Wireless Sensor Networks", (BOOK) Published in LAP LAMBERT Academic Publishing, November 2015. (ISBN: 978-3659811579).
"Fuzzy Duty Cycle Adaption Algorithm for IEEE 802154 Star Topology Networks" IJCCCE Journal, 2013, Volume 13, Issue 1.
"A Sender/Receiver Pair Transmission Power Control for Wireless Sensor Networks", Basrah Journal of Science, 2013, Volume 31, Issue 3.
"A Sender/Receiver-Coupled Fuzzy Logic System for Transmission Power Control in Wireless Sensor Networks" The IEICE Technical Committee on Internet Architecture, Japan, 2010.





## Participation in Scientific Conferences and Symposia

Title	Organizer	Type of Participation
"Energy and RSSI based fuzzy inference system for cluster head selection in wireless sensor networks."	In Proceedings of the ACM International Conference on Information and Communication Technology, pp. 102-105. .ACM, 2019	
"Coalition Game for Emergency Vehicles Re-Routing in Smart Cities",	10th Sensor Array and Multichannel Signal Processing Workshop (SAM), 2018.	
"Dynamic RPL for Multi-Hop Routing in IoT Applications",	13th Annual Conference on Wireless On-demand Network Systems and Services (WONS), IEEE, 2017.	
Congestion Analysis for "Low Power and Lossy Networks",	15 <sup>th</sup> Wireless Telecommunications Symposium (WTS), IEEE, 2016.	
Congestion-Aware RPL for "6LoWPAN Networks",	15 <sup>th</sup> Wireless Telecommunications Symposium (WTS), IEEE, 2016.	
"A Sender/Receiver-Coupled Fuzzy Logic System for Transmission Power Control in Wireless Sensor Networks"	The IEICE Technical Committee on Internet Architecture, Japan, 2010.	





Honors and Awards		
Title	Date	Details
Certificate of Appreciation	2007	University of Basra, Iraq / Chancellor
Letter of Thanks	2007	University of Basra, Iraq / Chancellor
1 <sup>st</sup> Rank Student in Engineering College, Basra	2007	University of Basra, Iraq / Chancellor
Certificate of Appreciation	2008	University of Basra, Iraq / Dean of Engineering College
Letter of Thanks	2008	Deputy Prime Minister of Iraq
Best Student Paper Award	2016	15 <sup>th</sup> Wireless Telecommunications Symposium, London, UK
Best PhD Thesis Award	2017	School of Electronic and Electrical Engineering, University of Leeds, UK
Springer Thesis Award	2019	Springer Nature Switzerland AG
15 Letters of Thanks	2018 - 2021	Southern Technical University, Iraq / Chancellor