Mailing Address: King Saud University Community College – Comp. Sci. Dept. Building (4), Floor (6), Office (11)

Contact:

E-Mail: galshammri@ksu.edu.sa E-Mail: galshammri.phd@gmail.com Cell phone: +966 (555) 250 559

ALSHAMMRI, GHALIB HMOOD F

Personal Information	
Current Status:	- Assistant Professor at King Saud University – Comp. Sci. Dept.
	- Assistant Professor (Collaborative) at Saudi Electronic University,
	Graduate Courses, Riyadh Branch.
	- Scientific Research Consultant at Saudi Electronic University.
	- Co-Founder and Board Member at Saudi Society for Data Science.
	- Counselor in SIGAL Arabia Engineering Consulting.
	- Assistant Professor (Collaborative) at Imam Muhammad Ibn Saud
	Islamic University, Riyadh
	- Teaching Assistant at Stevens Institute of Technology, ECE Depart.
	- Ph.D. at Stevens Institute of Technology, USA, Graduating May'19
	Dissertation: Artificial Intelligence Techniques for Diffusion-Based
	Bio-Molecular Nano Communication Networks
	Research Area: Molecular Communication Nanonetworks and AI
	Under Supervision: Prof. Victor B. Lawrence
	Associate Dean of Engineering & Batchelor Chair Professor
Nationality:	Saudi
Summary of Qualifications:	[Oct. 2019 - present] Assistant Professor in Artificial Intelligence and
	Data Science at King Saud University – Computer Science Dept.
	[Dec. 2019 - present] Co-Founder & Board Member at SSDS
	[2003 - 2019] Lecturer at King Saud University
	(Community College) – Computer Science Department.
	[Spring 2017 – Spring 2020] Teaching Assistant at Stevens Institute of
Educations	Technology, Electrical and Computer Engineering
Education:	[1000 2002] Tanahami Callaga in Divadh at King Saud University
1- Bachelor's Degree:	[1999 - 2003] Teachers' College in Riyadh at King Saud University: Bachelor of Education (Major: Computer Science) with a G. P. A. of (4.43)
	with Second Class Honor, Rank in Class: The First.
2- Master's Degree:	[2008 - 2009] The University of Wollongong in Australia:
2- Master s Degree.	Master of Computer Science (Major: Intelligent Systems).
3- Ph.D. Degree in	[August 2014 - May 2019] Ph.D. at Stevens Institute of Technology –
Comp. Eng. (AI)	Electrical and Computer Engineering Department.
1 8 (/	Thesis: Artificial Intelligence Techniques for Diffusion-Based Bio-
	Molecular Nano Communication Networks
4- Certifications &	- Quality Practitioner Preparation and Academic Accreditation Program (6
Courses:	Courses), Quality and Academic Accreditation Unit - KSU, 2021
	- Introduction to Academic Leadership, Academic Leadership Center in MoE
	Cooperating with SACM, Mclean, Virginia, 2019.
	- Key Performance Indicator (KPI) & Benchmarks, KSU, Dec. 2019.
	- Question-Writing Strategies, Education & Training Evaluation commission,
	Ministry of Education, Jan. 2020.
	- Writing and Publishing Books, KSU, Feb. 2020.
	- Specifications and Report of The Academic Program, KSU, Nov. 2019.
	- Course Specification and Course Report, KSU, Nov. 2019.
	- Evaluation and Assessment of Learning Outcomes, KSU, Nov. 2019.
	- Micro-Learning, King Saud University (KSU), Nov. 2019.
	- Academic Course Design and Construction, KSU, Oct. 2019.
	- Effective Academic Learning, King Saud University (KSU), Oct. 2019.
	- Statistics Using R, Saudi Digital Library, Nov. 2019.
	- Narrow Band Internet of Thing (NB-IoT), Ministry of Communications &
	Information Technology (MCIS) – Attaa, Dec. 2019.

- IoT & The Future of Saudi Digital Solutions, Ministry of Communications & Information Technology (MCIS) Attaa, Dec. 2019.
- AI-Driven Personalization in E-Commerce, STC Academy, Dec. 2019.
- Data Monetization, STC Academy, Dec. 2019.
- Data Modeling form RDBMS to NoSQL, DevOps Middle East Badir Technology Incubators and Accelerators Program, Jan. 2020
- Cybersecurity in Cloud Computing, CIAG Info. Security, Jan. 2020
- Building a Blockchain Ecosystem: From Concept to Execution,
 Hyperledger Riyadh, Badir Technology Incubators and Accelerators
 Program, KACST, Jan. 2020
- Introduction to Internet of Things (IoT), Stanford University, Stanford, California, 2018.
- Nanotechnology for Energy, Portland State University, Portland, Oregon.
- Quantum Information Science I, Harvard University / MIT.
- Machine Learning for Data Science & Analytics, Columbia University.
- DNA Sequences: Alignments and Analysis, University of Maryland.
- Quantum Machine Learning, University of Toronto.
- Publication Mechanism in ISI Journals, Saudi Digital Library.
- Building a Cybersecurity Toolkit, University of Washington.
- Machine Learning, Stanford University.

Professional Experience:

[2013 - 2014] Consultant in General Department of Certificates Equalization - Ministry Deputy for Educational Affairs, Ministry of Higher Education (MoHE) - Kingdom of Saudi Arabia

[2017 - 2019] Supervisor and Manage Research Groups for Postgraduate (Master and PhD) Students at Stevens Institute of Technology

[Dec. 2019 - Present] Founder of the Saudi Society for Data Science - KSU

[Dec. 2020 - Present] Founder and Trainer of a group of training bootcamp, such as Data Science & Big Data Bootcamp and Internet of Things (IoT) Bootcamp [Dec. 2020 - Present] Counselor in SIGAL Arabia Engineering Consulting [August 2021 – Present] Scientific Research Consultant at Saudi Electronic University

Additional Professional Activities:

- Teacher Assistant at Stevens Institute of Technology (CpE 654)
 Design and Analysis of Network Systems Including Design &
 Implement IoT with Clouding System (Graduate Courses).
 - o Spring 2017 Spring 2020
- Supervised many Graduation Projects for Undergraduate Students at KSU - Riyadh Teacher College and Community College.
- Taught many courses at King Saud University Riyadh Teacher College and Community College (Undergrad Level), including:
 - o Introduction to Programming.
 - o Programming (1).
 - o Programming (2).
 - Visual Programming (1) & (2).
 - Data Structure.
 - Object Oriented Programming (OOP).
 - o Internet Programming.
 - o Computer Network.
 - o Designing & Implementing Cloud Internet of Thing (IoT).
 - Design and Analysis of Network Systems.
 - Introduction to Computer Science.
 - Statistical & Mathematical Course.
 - Publication Techniques in the Internet Servers.
 - Graduation Project.
- **Membership** in many committees at KSU Riyadh Teacher College and Community College, CS Dept., including:
 - Chairman of the Graduation Project Committee
 - Chairman of the Academic Advising Committee
 - Member of the Quality & Academic Accreditation Committee
 - Member of the Study Plan and Curricula Committee

CURRICULUM VITAE: ALSHAMMRI, GHALIB HMOOD F		
	- Trainer in Training & Community Service Center at King Saud University for eight years.	
Languages:	ARABIC: Native Language ENGLISH: Excellent	
Objectives:	 To be dedicated, enthusiastic individual with outstanding academic, communication, organizational, and people skills. To enhance my educational and professional skills in a stable and dynamic workplace. To obtain exceptional interpersonal, communication, computer, technical and teaching skills. To obtain a position that will enable me to use my strong organizational skills, long educational background, and ability to work well with people. To build a long-term career in research with opportunities for career growth. To supervise Master & Ph.D. students in CS & CpE. 	
Programming Languages:	Visual Basic .Net, C++, Visual C# .Net, Java, PHP, HTML, CSS, ASP, Mobile Application (Flutter), Python, R and MATLAB. Additionally, there are abilities to learn any language.	
Operation Systems:	Windows, MAC OS and Unix System.	
Interesting Research:	 Molecular Communication Nanonetworks. Artificial Intelligence, Data Science and Big Data. Internet of Bio-Nano Things (as a general IoT). Neural Network and Fuzzy Concept. Machine Learning and Data Mining (Deep Learning). Robotics, Ubiquitous Robotics (Computing). Agent and Multi-Agent techniques. Cyber-Physical System (CPS) and Cybersecurity. Pattern Recognition and Unmanned Aerial Vehicle (UAV). Blockchain & Cryptocurrency. 	
Publications:	 Alshammri, Ghalib. "Investigation of Agent or Multi-agent Technologies in E-Commerce Systems." IJCSNS vol. 9, no. 10 (2009): pp. 231-235 Alshammri, Ghalib H., et al., "Low-Complexity Memory-Assisted Adaptive-Threshold Detection Scheme for ON-OFF-Keying Diffusion-Based Molecular Communications." In 2017 IEEE 38th Sarnoff Symposium, Newark, New Jersey, pp. 1-6 Alshammri, Ghalib H., et al., "Generalized Memory-Assisted Adaptive-Threshold Detection Scheme for ON-OFF-Keying Diffusion-Based Molecular Communications." In 2018 IEEE Networks, Computers and Communications (ISNCC 2018), IEEE International Symposium on, Italy, Rome, 2018, pp. 1-7 Alshammri, Ghalib H., et al., "Sequential Training-Based Receiver for On-OFF Keying Diffusion-Based Molecular Communications." In Nanotechnology (IEEE-NANO), 2018 18th IEEE Conference on, Cork, Ireland, pp. 1-5. IEEE, 2018 Alshammri, Ghalib H, et al., "Adaptive Batch Training Rule-Based Detection Scheme for On-OFF-Keying Diffusion-Based Molecular Communications." In Nanotechnology Materials and Devices Conference (IEEE NMDC), 2018 13th IEEE Conference on, Portland, Oregon, pp. 1-4, IEEE, 2018 Alshammri, Ghalib, et al., "Synchronous Cooperative Relaying Technique for Three-Dimensional Diffusion-Based Molecular Nano Communication Networks." In Nano/Molecular Medicine and Engineering Conference (NANOMED 2018). 2018 12th IEEE Conference on, Waikiki Beach, Hawaii, pp. 1-6, IEEE, 2018 Alshammri, Ghalib, et al., "IADSS: Intelligent Agent-Assisted Decision Support System for Diffusion-Based Molecular Communication Networks Conference (CICN 2019). 2019 11th IEEE Conference on, University of Hawaii, Honolulu, HI, pp. 1-6, IEEE, 2019 Alshammri, Ghalib, et al., "Receiver Techniques for Diffusion-Based Molecular Communications." In Current Nanoscience, 16:2 – ISI Indexing Journal, Q2, IF: 1.4 Alshammri, Ghalib, et al., "Receiver Techniques for Diffusion-Based Molecular Nano Comm	

CURRICULUM VITAE: ALSHAMMRI, GHALIB HMOOD F Multivariate Polynomial Approximation." In IEEE Transactions on Molecular, Biological and Multi-Scale Communications, vol. 4, no. 3, pp. 140-159, Sept. 2018 – ISI Indexing Journal. - Alshammri, Ghalib, et al., "IAFDSS: Intelligent Agent-Assisted Fuzzy Decision Support System for Diffusion-Based Molecular Nano Communication Networks." In International Systems Conference (SYSCON 2019). 2019 13th IEEE Conference on, Orlando, FL, pp. 1-6, IEEE, 2019 - Alshammri, Ghalib, et al., "Applied Internet of Things in Saudi Arabia Airports." In 2020 16th International Computer Engineering Conference

IEEE, 2021.

(ICENCO), pp. 103-111. IEEE, 2020.

Talks:	

- Alshammri, Ghalib, et al., "Achieving Low Un-Coded BER for Nano Molecular Communications", Bell Works, NJ USA, 28 November 2018.

Alshammri, Ghalib, et al., "Applied Internet of Things in Saudi Arabia Aquaculture System," In 10th IEEE International Conference on Communication Systems and Network Technologies (CSNT), pp. 442-447,

Course Book:

- Information & Communications (TextBook), Community Service Center, Teacher College, CS Department, King Saud University, published in 2011 (Version: Arabic Language).

The Provisional Patent

"Process and Apparatus for Multi-Modality Communications Network Structure and Information (Symbol/Bit) Detection and Demodulation" U.S. Provisional Patent Application Serial No. 62/652,847

Technical Committee: (Reviewer)

- IEEE International Conference on Communications (IEEE ICC 2018), 20-24 May 2018, Kansas City, MO, USA
- IEEE International Symposium on Personal, Indoor and Mobile Radio Communications (IEEE PIMRC), Sept. 9-12, 2018. Bologna, Italy
- The 39th IEEE Sarnoff Symposium, Sept. 24-25, 2018, Newark, NJ, USA
- IEEE International Conference on Communication & Information Systems (ICCIS'18), December 28-30, 2018. Singapore
- IEEE International Conference on Communication & Information Systems (ICCIS'19), December 21-23, 2019. China
- IEEE Transactions on Circuits and Systems I: Regular Papers (IF: 2.8)
- IEEE Transactions on Fuzzy Systems (IF: 8.41) ISI Indexing
- IEEE Communications Magazine (IF: 9.27) ISI Indexing
- BioNanoScience Journal, Springer (IF: 1.2) ISI Indexing
- IEEE Transactions on NanoBioscience (IF 1.9) ISI Indexing
- IEEE Access (IF 3.7) ISI Indexing

Invited Speaker

- IEEE International Conference on Communication & Information Systems (ICCIS'18), December 21-23, 2019. China
- 2019 International Joint Conference on Control, Automation and Robotics (JCCAR'19), November 23-25, 2019. Czech Republic

Conference Attendance:

- 2017 IEEE North Jersey Advanced Communications Symposium, Hoboken, NJ
- 2015 IEEE North Jersey Advanced Communications Symposium, Hoboken, NJ

Grants

- Taif University Initiative for COVID-19 Research Project.
- Spring 2018. Stevens Institute of Technology, Hoboken, NJ, Graduate Student Conference Fund (Award: \$500)
- Fall 2018. National Science Foundation (NSF), USA (Award: \$646)
- Spring 2019. Stevens Institute of Technology, Hoboken, NJ, Graduate Student Conference Fund (Award: \$500)

Bootcamp (Presenter)

- Data Science and Big Data Bootcamp, CoIEA Center of Excellence for Information Assurance, King Saud University (Summer 2020).
- Python Programming Language Bootcamp, CoIEA Center of Excellence for Information Assurance, King Saud University (Summer 2020)
- Data Science and Big Data Bootcamp, CoIEA Center of Excellence for Information Assurance, King Saud University (Oct. 2020).
- Internet of Things (IoT) Bootcamp, CoIEA Center of Excellence for Information Assurance, King Saud University (Dec. 2020).
- Introduction to Data Science and Big Data, CoIEA Center of Excellence for Information Assurance, King Saud University (Sept. 2020) Free Course (Community Service).
- Introduction to Artificial Intelligence, KSU Training Center, King Saud University (Dec. 2020).

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	 Artificial Intelligence, Data Science and Machine Learning (Week), Graduate Development Program, Ministry of Finance. Data Science and Big Data Bootcamp (Month), SSDS – Saudi Society for Data Science, King Saud University (June. 2021). 	
	- Statistics and Data Science Workshop (Three Days), Mawhiba (King Abdulaziz and His Companions Foundation for Giftedness and Creativity), August 2021	
Scientific Statistical Analysis (Google Scholar)	# of citations: 24 h-index: 3	