A'aeshah Alhakamy, Ph.D.

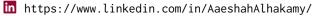
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Education

Ph.D., in Computer Science. Graphics, Visualization, Imaging Track. *Purdue University,* Indianapolis, USA.

Thesis title: Extraction and Integration of Physical Illumination in Dynamic Augmented Reality Environments. **6** https://doi.org/10.25394/PGS.12950315.v1

2015-2016

M.Sc., in Computer Science. Graphics, Visualization, Imaging Track. *Purdue University*, Indianapolis, USA.

2001-2005

B.Sc., in Computer Science. *Taibah University,* Medina, Saudi Arabia.

Appointments

Sep 2023 - Present

▼ Vice Chair of the Standing Executive Committee for Data Management and Governance at the University of Tabuk.

Aug 2023 - Present

Data Management Officer at the University of Tabuk.

- Preparing, implementing, and following up data management programs in various fields. - Ensure compliance with national data management controls and specifications. - Communicate with business data representatives and specialists. - Oversee data quality and accuracy. - Preparing, implementing, and following up data quality improvement programs. - Overseeing data structure and modeling. - Oversee business intelligence and analytics initiatives. - Prepare and implement open data initiatives. - Manage data-sharing requests. - Manage requests for access to information. - Supervision of the data dictionary.

Jun 2023 - Present

Erasmus+ Liaison Officer at the University of Tabuk.

Communicate with Erasmus+ Programme representatives and specialists at the Ministry of education, Erasmus+ is an European funding programme established in 1987 offering university students the possibility of studying or register in an internship abroad.

May 2023 - Present

Member of the Computer Science Department Council.

May 2021 - May 2023

Member of the Information Technology Department Council.

- Propose the appointment of faculty members, graduate students, and lecturers and propose their secondment, delegation and promotion. - Propose degree plans, or their amendment in consideration with academic departments. - Propose curricula, textbooks, and references for the department of the college or institute. - Encourage the conduct of academic research, coordinate research activities between the departments of the university or institute, and undertake its publication.

Jan 2023 - Present

Researcher at the Artificial Intelligence and Sensing Technologies (AIST) Center at the University of Tabuk.

PI: Extended Reality (XR) Making Immersive Technologies in Training and Repair: The Key to Unlocking Industry 4.0. Grant number: S-1443-0002, Amount: 24,800 SAR. - Conduct scientific research in the field of Artificial Intelligence and Sensing Technology - Work on internal and external funded research.

Appointments (continued)

Dec 2022 - Present

Member of the Permanent Committee Supervising Social Responsibility Activities at the University of Tabuk.

- Participate in making and approving decisions related to the system and policies of the unit and community initiatives. Participate in the presentation and development of qualitative community initiatives. - Review the measurement of performance indicators. - Participate in planning and preparing programs for the Community Responsibility Unit.

Apr 2021 - Present

Assistant Professor of Computer Science at the Faculty of Computers and Information Technology of the University of Tabuk.

- Conduct research and publish papers in academic journals. - Representing the university at conferences and presenting presentations when necessary. - Teaching and supervising undergraduate and graduate students. - Provide demonstrations and supervise experiments and investigations. - Answering questions in class or via email or telephone. - Provide Professors and Department Heads with feedback on student progress. - Write proposals to secure funding for research.

Jan 2023 - Aug 2023

Supervisor of Academic Affairs at the University of Tabuk.

- Build course plan for the faculty of Computers and Information Technology
- Assistant the supervisor of the Department of Computer Science to perform her duties.

Jan 2022-Present

■ The Saudi Federation For Cybersecurity, Programming and Drones Liaison Officer.

-Acts as the point of contact between different organizations or within the University of Tabuk for all cybersecurity, programming, and drones. -Coordinating cybersecurity programming, and drone initiatives, ensuring compliance with security policies, facilitating communication between departments or organizations, and managing responses to cybersecurity incidents.

Jan 2021 - Jan 2023

■ Deputy Director of Industrial Innovation and Robotics Center (IIRC) at the University of Tabuk.

- Build a strategic plan for the research center - Conduct research in the field of robotics and industrial innovations - Coordination of visits by external parties to the center - Finding aspects of partnership and research cooperation with external parties.

Fall 2018- Fall 2020

Research Assistant at Indiana University @Indianapolis.

Working at the Data Lab with an NSF-funded project named "Aiding Reasoning about Correlation and Causation". Develop a Human-Data and Embodied Interaction system using gestures, body movements, Gamepad, or Tangible objects.

Fall 2017

■ Teaching Assistant at Purdue University @Indianapolis.

Held office hours for individual student discussion and grading exams and papers for the security engineering course.

Dec 2009 - Apr 2021

Teaching Assistant of Computer Science at the Faculty of Computers and Information Technology of the University of Tabuk.

Teaching computer organization with assembly, data structure and algorithms, operating system, theory of computation, programming language, logic design, advanced Internet and web technology, computer ethics, introduction to computing, computer programming 1 & 2

2008

Computer Instructor at Modern Girl Institute for Computer and Languages and at several High Schools.

Taught Introduction to Computer Science, System Analysis and Design, Speed typing, Microsoft Office, Adobe Photoshop and more.

Appointments (continued)

2007 Secretary at Taibah Charity Association in Madina

Administrative duties: conference and meeting setting, travel planning, letter writing, report forms brochures, cards, and customer service.

Achievements

Awards

- - Outstanding Faculty Member Award, in Student Activities, Deanship of Student Affairs, University of Tabuk & Post
 - Outstanding Scientific Research Award, Web of Science Journal, Deanship of Scientific Research, University of Tabuk. For manuscript 6 https://doi.org/10.1007/s11042-023-17598-7
 - Outstanding Scientific Research Award, Web of Science Journal, Deanship of Scientific Research, University of Tabuk. For manuscript & https://doi.org/10.3390/s23136024
- Outstanding Scientific Research Award, Web of Science Journal, Deanship of Scientific Research, University of Tabuk. For manuscript & https://doi.org/10.3390/sym15030699
 - Outstanding Scientific Research Award, Web of Science Journal, Deanship of Scientific Research, University of Tabuk. For manuscript & https://doi.org/10.3390/su15020911
 - Incentive Reward for Distinguished Researchers, published with graduate students in Web of Science classified journal, Deanship of Scientific Research, University of Tabuk. For manuscript

 ↑ http://dx.doi.org/10.14569/IJACSA.2022.0131246
- President's Award for Outstanding Scientific Research Award, in research and innovation for scientific and engineering track, University of Tabuk.

 Post
- Outstanding Scientific Research Award, Web of Science Q1 Journal, Deanship of Scientific Research, University of Tabuk. For manuscript 6 https://doi.org/10.1145/3386496
- Travel Award, Attend CHI conference from Dr Cafaro, NSF, and IUPUI Data Lab full support.
- Outstanding Scientific Research Award, Publishing while a Ph.D. student from the Saudi Arabian Cultural Mission (SACM). For manuscript ohttps://doi.org/10.1109/INFOCT.2019.8710982
- Travel Award, Financial Fund to attend a conference title "Introduction to Academic Leadership" provided by the Saudi Arabian Cultural Mission (SACM) that includes travel and accommodation.
- Master with high GPA Award, Graduating a Master's degree with a high GPA from the Saudi Arabian Cultural Mission (SACM).
- Scholarship, Full Scholarship from the University of Tabuk and the Saudi Arabian Cultural Mission (SACM).

Achievements (continued)

2018

Honor Degree, Graduating with honor degree, BSc in Computer Science from Taibah University.

Certifications

June 5, 2023 Fundamentals of Developing and Building Policies and Legal Legislation Awarded by the national data management office (NDMO).

July 24, 2021 Hadoop Platform and Application Framework. Awarded by University of California San Diego.

■ Introduction to Academic Leadership. Awarded by the Saudi Arabia Ministry of Education.

Grants

Aug 2022 - May 2023 Deanship of Scientific Research, University of Tabuk PI: Extended Reality (XR) Making Immersive Technologies in Training and Repair: The Key to Unlocking Industry 4.0, Grant#: S-1443-0002.

Mentoring (Research and Project Advisor)

Master Students

July 2022 - July 2023 Hibah Q. Alatawi, Nouf M. Albalawi, Ghada H. Shahata, and Khulud A.

Aljohani, Thesis titled "Extended Reality (XR) making Immersive Technologies in Training and Repair: The Key to Unlocking Industry 4.0", Published Article "Augmented Reality-Assisted Deep Reinforcement Learning-Based Model towards Industrial Training and Maintenance for NanoDrop Spectrophotome-

ter" on 🔗 http://doi.org/10.3390/s23136024

"YUSR"

May 2021 - May 2022

Shoroog Albalawi, Lama Alshahrani, Nouf Albalawi, and Reem Kilabi,
Thesis titled "An Iris Recognition and Authentication System Using Image Analysis and Artificial Intelligence Techniques", Published Article "A Comprehensive Overview on Biometric Authentication Systems using Artificial Intelligence Techniques" on
http://dx.doi.org/10.14569/IJACSA.2022.0130491

Undergraduate Students

Aug 2021 - May 2022

Mar 2023 - Present

Jan 2024 - Present Bayder Alesa, Aseel Alatawi, Shooq Alfehimai, Maryam Majrashi, Noor Mubark, Nada Aladisani, Capstone project Hajj and Omrah Guide titled

Aug 2022 - Feb 2023 Shahad Alsufyani, Alanoud Albalawi, Maha Al-Shammari, Madawi Al-Anzi, Albatul Altoum, Maha Alenazi, and Alia alatawi, Capstone project titled "Road Breakers"

Heba Al-Balawi, Wejdan Al-Atwi, Batool Abdullah, Wadha Al-Hwaiti, Bayan Al-Atwi, Samah Alhawiti, Maryam Alatwi, and Razan Alatwi, Capstone project titled "UT Repository"

Renad Alsharafaa, Manar Albalawi, Awatef Alharthi, Njoud Alhazmi, Amal Aamri, and Razan Asiri, Capstone project titled "Stay"

Rana Alharbi, Hadeel Aljuhani, Ahad Aljohani, Abeer Albalawi, Ghada Albushi, and Rahaf AlAtwi, Capstone project titled "Student Club"

Nour Mubarak, Bayader Al-Issa, Maryam Majrashi, Shawq Al-Fihmani, Nada Al-Adisani, Aseel Al-Atwi, Capstone project titled "YUSR: A Mobile Application for Umra and Hajj in Makkah"

University and Community Services

Keynote Speaker/Workshops

28 Jan - 1 Feb 2024 Professional Center - Deanship of Student Affairs with Research and **Consulting Institute**, Providing a 40 hours training program entitled "Cybersecurity Course" in cooperation with the King Abdulaziz Charitable Society and

King Abdulaziz Model Schools.

9 Feb 2023 **Deanship of Scientific Research**, University of Tabuk, Saudi Arabia, A scientific seminar within the research hour initiative, Research entitled "Extended Reality (XR) Toward Building Immersive Solutions: The Key to Unlocking In-

dustry 6.0" for the funded project with grant# S-1443-0002

Faculty of Computers and Information Technology University of Tabuk, 8 Nov 2021 Saudi Arabia, Seminar entitled "Essential steps to create your own website"

Digital Giving Webinar, Ataa, Seminar entitled "External scholarship and 16 Sep 2021 self-education to keep pace with digital transformation"

Faculty of Computers and Information Technology, University of Tabuk, 8 Sep 2021 Saudi Arabia, Seminar entitled "Extraction and Integration of Physical Illumination in Dynamic Augmented Reality Environment"

Reviewer/Technical Committee

1-3 Nov 2023

12-14 Jun 2024 The ACM International Conference on Interactive Media Experiences

(IMX)), will be held in Stockholm, Sweden.

■ The IEEE 2023, 11th International Conference on Control, Mechatronics and Automation (ICCMA 2023), held at Campus Grimstad, University of

Agder, Norway.

17 Dec 2022-present Multimedia Tools and Applications Journal, Springer Nature Switzerland AG, Reviewer of 16 scientific manuscripts and keep going

International Journal of Human-Computer Interaction, Taylor & Francis, 18 Apr 2022-present

London, UK, Reviewer of 2 scientific manuscript and keep going

The ACM 2022, 16th International Conference on Tangible, Embedded 13-16 Feb 2022 and Embodied Interaction (TEI), KAIST, Daejeon, South Korea

The IEEE 2021, 2nd International Conference on Computing and Infor-30 Nov-2 Dec 2021 mation Technology (ICCIT), at the University of Tabuk, Saudi Arabia

Ambassador

12-20 Dec 2022

Future Technologies Ambassadors Program of the Ministry of Commu-9 Feb 2023

nications and Information Technology, Riyadh, Saudi Arabia, A workshop entitled: "Extended Reality (XR) Toward Building Immersive Solutions: The Key

to Unlocking Industry 4.0"

Future Technologies Ambassadors Program of the Ministry of Communications and Information Technology, Riyadh, Saudi Arabia, Training an

elite group of students in several different universities around the Kingdom on the technical curriculum of "Digital 101" course, providing six workshops for

two hours each

Ministry of Communications and Information Technology, Riyadh, Saudi 15 Jan-20 Dec 2022 Arabia, Knowledge Ambassador in the Future Technologies Ambassadors Program and Stanford Technical Course "Digital 101", Attending six workshops for

two hours each

University and Community Services (continued)

Event Mentor/Judge

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4 Feb 2024	2 -Thon Deanship of Student Affairs, University of Tabuk, Saudi Arabia, A Judge for Scientific Patents
18 and 28 Jan 2024	Princess Seetah Award Deanship of Student Affairs, University of Tabuk, Saudi Arabia, A Substituted Judge for Sustainable Solutions
27 Jan 2024	2nd Global Game Jam Google Developer Students Club, Deanship of Student Affairs, University of Tabuk, Saudi Arabia, A Judge of results
7 Oct 2023	NASA International Space Apps Challenge, Deanship of Students Affairs, University of Tabuk, Saudi Arabia, Judge for Space Apps Challenge
2-5 Feb 2023	Xthon-2 event , Deanship of Students Affairs, University of Tabuk, Saudi Arabia, Judge for Asynchronous Learning Track
13-15 Sep 2022	Global Game Jam Google Developer Students Club, Deanship of Student Affairs, University of Tabuk, Saudi Arabia, A mentor to teams and Judge of results
3-7 Jan 2021	Xthon-1 event , Deanship of Student Affairs, University of Tabuk, Saudi Arabia, Teams Mentor for Sustainable Environment Applications Challenge
Presenter	
30 Nov-2 Dec 2021	The IEEE 2021 2nd International Conference on Computing and Information Technology (ICCIT), at the University of Tabuk, Saudi Arabia, Event presenter
Participant	
19-20 Dec 2023	Digital Governance Forum , Riyadh, Saudi Arabia, Investigating methods of cooperation for the data management office at the University of Tabuk
13-14 Sep 2023	The IEEE 2023 3rd International Conference on Computing and Information Technology (ICCIT), Grand Millennium, University of Tabuk, Tabuk, Saudi Arabia, Session chair and participant
1 Dec 2022–1 Jan 2023	■ Digital Innovation Award of the Ministry of Communications and Information Technology, hybrid (Riyadh and Online), Participant in scientific research "SARA for Diabetic Children" and attending workshops and a monthlong training program
13-15 Sep 2022	Research Partnership Day, Grand Millennium, Vice Rectorate for Postgraduate Studies and Scientific Research, University of Tabuk, Participation in the session on protecting natural reserves
	Global Summit on Artificial Intelligence, Riyadh, Saudi Arabia, Attend conference activities by special invitation
19 Apr 2022	International Education Conference and Exhibition, in Riyadh, Saudi Arabia, Attending conference activities, some of the workshops held, and being in the university corner
1-3 Feb 2022	LEAP 2022, Riyadh, Saudi Arabia, Exploring cooperation for the Industrial In-

novation and Robotics Center

participate in discussions.

22 Oct 2021

The Knowledge Society Series in E-Learning workshop, Deanship of E-

Learning and Distance Education, University of Tabuk, Tabuk, Saudi Arabia,

Teaching

Fall 2010 - First Semester 1431

Spring 2010 - Second Semester 1431

CSC 102 Computer Programming 2, 2 lab credit hours, CS Bachelor

Fall 2011 - First Semester 1432

DM 241 Introduction to Computer, 2 lecture, 2 lab credit hours, CS Bachelor

CSC 112 Programming Languages, 8 lab credit hours, CS Bachelor

CSC 109 Computer Ethics, 2 lecture credit hours, CS Bachelor

Spring 2011 - Second Semester 1432

CSC 101 Computer Programming 1, 2 lab credit hours, CS Bachelor

CSC 102 Computer Programming 2, 6 lab credit hours, CS Bachelor

Fall 2012 - First Semester 1433

CSC 210 Computer organization with Assembly, 6 lab credit hours, CS Bachelor

CSC 220 **Data Structure and Algorithms**, 4 lab credit hours, CS Bachelor

Spring 2013 - Second Semester 1433

CSC 101 Theory of Computation, 3 lecture credit hours, CS Bachelor

CSC 210 Computer organization with Assembly, 2 lab credit hours, CS Bachelor

CSC 491 | Graduation Project, 2 lab credit hours, CS Bachelor

Spring 2021 - Second Semester 1442

CSC 102 Computer Programming 2, 12 lecture, 2 lab credit hours, CS Bachelor

Fall 2021 - First Semester 1443

CSC 490 Graduation Project 1, 2 credit hours, CS Bachelor

CSC 102 Computer Programming 2, 6 lecture credit hours, CS Bachelor

CIS 611 **Big Data Analytics**, 3 lecture credit hours, Master of Data Science

CIS 605 Programming for Data Science, 3 lecture credit hours, Master of Data Science

CSC 624 Research Project 1, 3 credit hours, Master of Artificial Intelligence

Spring 2022 - Second Semester 1443

CSC 490 Graduation Project 1, 3 credit hours, CS Bachelor

Graduation Project 1, 6 credit hours, CS Bachelor

CSC 101 Computer Programming 1, 3 lecture credit hours, CS Bachelor

CIS 601 **Data Science Fundamentals**, 3 lecture credit hours, Master of Artificial Intelligence

CSC 624 **Research Project 2**, 3 credit hours, Master of Artificial Intelligence

Fall 2022 - First Trimester 1444

CIT 0341 | IT Project Management, 8 lecture credit hours, IT Bachelor

CIT 0490 Graduation Project 1, 1 credit hours, IT Bachelor

CSC 1101 Introduction to Computing, 5 lecture credit hours, CS Bachelor

CIS 0611 **Big Data Analytics**, 4 lecture credit hours, Master of Data Science

CIT 0616 Introduction to Cyber Security and Digital Forensic, 4 lecture credit hours, Master of Forensic Accounting

Teaching (continued)

CSC 0624 Research Project 1, 3 credit hours, Master of Artificial Intelligence

Winter 2022 - Second Trimester 1444

CSC 0452 Computer Graphics, 5 lecture credit hours, CS Bachelor

CSC 0492 Selected Topics in Computer Science, 5 credit hours, CS Bachelor

CSC 0491 Graduation Project 2, 3 credit hours, CS Bachelor

CIT 0491 Graduation Project 2, 3 credit hours, IT Bachelor

CSC 1101 Database Security, 5 lecture and 1 lab credit hours, Master of Information Security

CSC 0624 Research Project 2, 3 credit hours, Master of Artificial Intelligence

Spring 2023 - Third Trimester 1444

CIT 0453 Multimedia Systems, 15 lecture credit hours, IT Bachelor

CSC 0624 Research Project 3, 3 credit hours, Master of Artificial Intelligence

Fall 2023 - First Semester 1445

CIT 453

CSC 420 Theory of Computation, 9 lecture credit hours, CS Bachelor

Multimedia Systems, 3 lecture credit hours, IT Bachelor

CSC 1102 Problem Solving and Programming Concepts, 2 lecture credit hours, CS Bachelor

CIS 611 **Big Data Analytics**, 3 lecture credit hours, Master of Data Science

Spring 2024 - Second Semester 1445

CSC 420 Theory of Computation, 3 lecture credit hours, CS Bachelor

CSC 1203 Advanced Programming Methods, 9 lecture credit hours, CS Bachelor

CSC 1101 Introduction to Computing, 2 lecture credit hours, CS Bachelor

CSC 490 Graduation Project 1, 1 credit hours, CS Bachelor

CIT 616 Introduction to Cybersecurity and Digital Forensics, 3 lecture credit hours, Master of Forensic Accounting

Fall 2024 - First Semester 1446

CSC 420 Theory of Computation, 6 lecture credit hours, CS Bachelor

CSC 490 **Graduation Project 1**, 1 credit hours, CS Bachelor

CSC 491 | Graduation Project 2, 3 credit hours, CS Bachelor

CIS 606 Computer Vision, 3 lecture credit hours, Master of Artificial Intelligence

Research Publications

Journal Articles

- Alhakamy, A. (2024). Extended reality (xr) toward building immersive solutions: The key to unlocking industry 4.0. *ACM Comput. Surv.*, 56(9). 6 doi:10.1145/3652595
- Alhakamy, A. (2023a). Digital vaccination passport and administrative burden of covid-19 official application based on twitter(x) discourse: Public interest vs democracy. *Multimedia Tools and Applications*, 23(7). 6 doi:10.1007/s11042-023-17598-7
- Alatawi, H., Albalawi, N., Shahata, G., Aljohani, K., Alhakamy, A., & Tuceryan, M. (2023). Augmented reality-assisted deep reinforcement learning-based model towards industrial training and maintenance for nanodrop spectrophotometer. *Sensors*, 23(13). 6 doi:10.3390/s23136024

- Alhakamy, A. (2023b). Fathoming the mandela effect: Deploying reinforcement learning to untangle the multiverse. *Symmetry*, 15(3). 6 doi:10.3390/sym15030699
- Alhakamy, A., Alhowaity, A., Alatawi, A. A., & Alsaadi, H. (2023). Are used cars more sustainable? price prediction based on linear regression. *Sustainability*, 15(2). Odo:10.3390/su15020911
- Albalawi, S., Alshahrani, L., Albalawi, N., Kilabi, R., & Alhakamy, A. (2022). A comprehensive overview on biometric authentication systems using artificial intelligence techniques. *International Journal of Advanced Computer Science and Applications*, 13(4). Odoi:10.14569/IJACSA.2022.0130491
- Alharbi, R., Alageel, N., Alsayil, M., Alharbi, R., & Alhakamy, A. (2022). Prediction of oil production through linear regression model and big data tools. *International Journal of Advanced Computer Science and Applications*, 13(12). 6 doi:10.14569/IJACSA.2022.0131246
- 9 Alhakamy, A., & Tuceryan, M. (2020a). Real-time illumination and visual coherence for photorealistic augmented/mixed reality. *ACM Comput. Surv.*, 53(3). **6** doi:10.1145/3386496
- Trajkova, M., Alhakamy, A., Cafaro, F., Vedak, S., Mallappa, R., & Kankara, S. R. (2020). Exploring casual covid-19 data visualizations on twitter: Topics and challenges. *Informatics*, 7(3).

 6 doi:10.3390/informatics7030035

Conference Proceedings

- Alessa, N., Majdua, A., Alshehri, S., Alhawiti, M., Aljohani, R., & Alhakamy, A. (2023). Banking in terms of deposit prediction based on machine learning and big data analytics. In 2023 11th international conference on control, mechatronics and automation (iccma) (pp. 69–74).

 6 doi:10.1109/ICCMA59762.2023.10374595
- Alshammari, A., Alshammari, R., Altalak, M., Alshammari, K., & Alhakamy, A. (2022). Credit-card fraud detection system using big data analytics. In 2022 international conference on electrical, computer, communications and mechatronics engineering (iceccme) (pp. 1–7).

 6 doi:10.1109/ICECCME55909.2022.9987791
- Alhakamy, A., Trajkova, M., & Cafaro, F. (2021). Show me how you interact, i will tell you what you think: Exploring the effect of the interaction style on users' sensemaking about correlation and causation in data. In *Designing interactive systems conference 2021* (pp. 564–575).

 Odoi:10.1145/3461778.3462083
- Alhakamy, A., Cafaro, F., Trajkova, M., Kankara, S., Mallappa, R., & Veda, S. (2020). Design strategies and optimizations for human-data interaction systems in museums. In 2020 ieee 20th international conference on advanced learning technologies (icalt) (pp. 246–248). Odi:10.1109/ICALT49669.2020.00081
- Trajkova, M., Alhakamy, A., Cafaro, F., Mallappa, R., & Kankara, S. R. (2020). Move your body: Engaging museum visitors with human-data interaction. In *Proceedings of the 2020 chi conference on human factors in computing systems* (pp. 1–13). Odoi:10.1145/3313831.3376186
- Alhakamy, A., & Tuceryan, M. (2019a). An empirical evaluation of the performance of real-time illumination approaches: Realistic scenes in augmented reality. In L. T. De Paolis & P. Bourdot (Eds.), Augmented reality, virtual reality, and computer graphics (pp. 179–195).

 Odi:10.1007/978-3-030-25999-0_16
- Alhakamy, A., & Tuceryan, M. (2019b). Polarization-based illumination detection for coherent augmented reality scene rendering in dynamic environments. In M. Gavrilova, J. Chang, N. M. Thalmann, E. Hitzer, & H. Ishikawa (Eds.), *Advances in computer graphics* (pp. 3–14). 6 doi:10.1007/978-3-030-22514-8_1

- Alhakamy, A., & Tuceryan, M. (2019c). Ar360: Dynamic illumination for augmented reality with real-time interaction. In 2019 ieee 2nd international conference on information and computer technologies (icict) (pp. 170–174). Odi:10.1109/INFOCT.2019.8710982
- 9 Alhakamy, A., & Tuceryan, M. (2019d). Cubemap360: Interactive global illumination for augmented reality in dynamic environment. In 2019 southeastcon (pp. 1–8).

 6 doi:10.1109/SoutheastCon42311.2019.9020588
- Alsaiari, A., Rustagi, R., Alhakamy, A., Thomas, M. M., & Forbes, A. G. (2019). Image denoising using a generative adversarial network. In 2019 ieee 2nd international conference on information and computer technologies (icict) (pp. 126–132). Odoi:10.1109/INFOCT.2019.8710893
- Cafaro, F., Trajkova, M., & Alhakamy, A. (2019). Designing embodied interactions for informal learning: Two open research challenges. In *Proceedings of the 8th acm international symposium on pervasive displays*. 6 doi:10.1145/3321335.3329688

Books and Chapters

Alhakamy, A., & Tuceryan, M. (2020b). Physical environment reconstruction beyond light polarization for coherent augmented reality scene on mobile devices (M. L. Gavrilova, C. J. K. Tan, J. Chang, & N. M. Thalmann, Eds.). 6 doi:10.1007/978-3-662-61983-4_2

Recommendations

Available on LinkedIn and upon Request