



## Ibrahim Alghamdi, PhD

I'm an Assistant Professor in the computer science department, Faculty of Computing and Information at [Al-Baha University](#). I'm also a member of the [Essence Research Lab](#) in the [School of Computing Science at the University of Glasgow](#). I was a member of [the Networked Systems Research Laboratory \(netlab\) at the University of Glasgow](#).

I received my Bachelor's Degree in Computer from Al-Baha University in 2010 (GPA 4.67 out of 5.0), my M.S. degree in Computer Science from [Monmouth University](#) in 2014 (3.9 out of 4.0), and my Ph.D. degree in Computing Science from the University of Glasgow in Oct 2021.

## Contact Information

Al-Baha University.  
Faculty of Computing and Information.  
Baha, Saudi Arabia.  
Email: [ia.alghamdi@bu.edu.sa](mailto:ia.alghamdi@bu.edu.sa)

## Research

My research interests are in the broad areas of: Decision-making and Resource management in Cloud Computing and Mobile Edge Computing.

## د. إبراهيم الغامدي

أستاذ مساعد في قسم علوم الحاسبات، كلية الحاسبات والمعلومات بجامعة الباحة.

عضو في مختبر الأبحاث Essence في كلية علوم الحوسبة بجامعة غلاسكو. كنت عضواً في مختبر أبحاث الأنظمة الشبكية (netlab) في جامعة غلاسكو.

حصلت على درجة البكالوريوس في الحاسب الآلي من جامعة الباحة بتقدير ممتاز مع مرتبة الشرف في عام 2010، ودرجة الماجستير في علوم الحاسب من جامعة مونماوث عام 2014 بتقدير ممتاز، ودرجة الدكتوراه في علوم الحوسبة من جامعة غلاسكو في أكتوبر 2021.

## معلومات الاتصال

جامعة الباحة.  
كلية الحاسبات والمعلومات  
الباحة، المملكة العربية السعودية.  
البريد الإلكتروني: [ia.alghamdi@bu.edu.sa](mailto:ia.alghamdi@bu.edu.sa)

## الاهتمامات البحثية

اهتماماتي البحثية تشمل مجالات واسعة مثل: اتخاذ القرار وإدارة الموارد في الحوسبة السحابية وحوسبة الحافة المتنقلة.

# Teaching

In this semester, I am teaching the following courses:

Cloud Computing

Artificial Intelligence

I have taught the following courses:

Senior Project for Computer Science Students

Object-Oriented Programming

Introduction to Algorithmic Problem Solving

Data Structures and Algorithms

Mobile Computing and its Applications

# التدريس

في هذا الفصل الدراسي، أقوم بتدريس المقررات التالية:

الحوسبة السحابية

الذكاء الاصطناعي

سابقاً قمت بتدريس المقررات التالية:

مشروع التخرج لطلاب علوم الحاسب

البرمجة الشيئية

مقدمة في حل المشكلات الخوارزمية

هياكل البيانات والخوارزميات

الحوسبة المتنقلة وتطبيقاتها

- Aladwani, T., Anagnostopoulos, C., Kolomvatsos, K., Alghamdi, I. and Deligianni, F. (2023) Query-driven Edge Node Selection in Distributed Learning Environments. In: Data-driven Smart Cities (DASC 2023)/ 39th IEEE International Conference on Data Engineering (ICDE 2023), Anaheim, CA, United States, 3-7 April 2023, (Accepted for Publication).
- Christos Anagnostopoulos, Tahani Aladwani, Ibrahim Alghamdi, and Kostas Kolomvatsos. "Data-Driven Analytics Task Management Reasoning Mechanism in Edge Computing." Smart Cities. 2022, [The paper](#).
- Tahani Aladwani, Christos Anagnostopoulos, Ibrahim Alghamdi, and Kostas Kolomvatsos. "Data-Driven Analytics Task Management at the Edge: A Fuzzy Reasoning Approach". In: The 9th International Conference on Future Internet of Things and Cloud (FiCloud 2022), 22-24 Aug 2022, accepted for publication [The conference website](#).
- Ibrahim Alghamdi, Christos Anagnostopoulos, and Dimitrios P Pezaros. "Optimized Contextual Data Offloading in Mobile Edge Computing". In: IFIP/IEEE International Symposium on Integrated Network Management (IM 2021), Bordeaux, France, 17-21 May 2021, [The paper](#).
- Ibrahim Alghamdi, Christos Anagnostopoulos, and Dimitrios P Pezaros. "Data quality-aware task offloading in Mobile Edge Computing: An Optimal Stopping Theory approach." Future Generation Computer Systems (2020), [The paper](#).
- Ibrahim Alghamdi, Christos Anagnostopoulos, and Dimitrios P Pezaros. "On the Optimality of Task Offloading in Mobile Edge Computing Environments," 2019 IEEE Global Communications Conference (GLOBECOM), Waikoloa, HI, USA, 2019, pp. 1-6, [The paper](#).
- Ibrahim Alghamdi, Christos Anagnostopoulos, and Dimitrios P Pezaros. Delay-Tolerant Sequential Decision Making for Task Offloading in Mobile Edge Computing Environments. MDPI Information 2019, 10, 312, [The paper](#).
- Ibrahim Alghamdi, Christos Anagnostopoulos, and Dimitrios P Pezaros. "Time-Optimized Task Offloading Decision Making in Mobile Edge Computing," 2019 Wireless Days, Manchester, United Kingdom, 2019, pp. 1-8 - Recipient of the Best Paper Runner Up Paper, [The paper](#).

- Aladwani, T., Anagnostopoulos, C., Kolomvatsos, K., Alghamdi, I. and Deligianni, F. (2023) Query-driven Edge Node Selection in Distributed Learning Environments. In: Data-driven Smart Cities (DASC 2023)/ 39th IEEE International Conference on Data Engineering (ICDE 2023), Anaheim, CA, United States, 3-7 April 2023, (Accepted for Publication)
- Christos Anagnostopoulos, Tahani Aladwani, Ibrahim Alghamdi, and Kostas Kolomvatsos. "Data-Driven Analytics Task Management Reasoning Mechanism in Edge Computing." Smart Cities. 2022, [The paper](#)
- Tahani Aladwani, Christos Anagnostopoulos, Ibrahim Alghamdi, and Kostas Kolomvatsos. "Data-Driven Analytics Task Management at the Edge: A Fuzzy Reasoning Approach". In: The 9th International Conference on Future Internet of Things and Cloud (FiCloud 2022), 22-24 Aug 2022, accepted for publication [The conference website](#)
- Ibrahim Alghamdi, Christos Anagnostopoulos, and Dimitrios P Pezaros. "Optimized Contextual Data Offloading in Mobile Edge Computing". In: IFIP/IEEE International Symposium on Integrated Network Management (IM 2021), Bordeaux, France, 17-21 May 2021, [The paper](#)
- Ibrahim Alghamdi, Christos Anagnostopoulos, and Dimitrios P Pezaros. "Data quality-aware task offloading in Mobile Edge Computing: An Optimal Stopping Theory approach." Future Generation Computer Systems (2020), [The paper](#)
- Ibrahim Alghamdi, Christos Anagnostopoulos, and Dimitrios P Pezaros. "On the Optimality of Task Offloading in Mobile Edge Computing Environments," 2019 IEEE Global Communications Conference (GLOBECOM), Waikoloa, HI, USA, 2019, pp. 1-6, [The paper](#)
- Ibrahim Alghamdi, Christos Anagnostopoulos, and Dimitrios P Pezaros. Delay-Tolerant Sequential Decision Making for Task Offloading in Mobile Edge Computing Environments. MDPI Information 2019, 10, 312, [The paper](#)
- Ibrahim Alghamdi, Christos Anagnostopoulos, and Dimitrios P Pezaros. "Time-Optimized Task Offloading Decision Making in Mobile Edge Computing," 2019 Wireless Days, Manchester, United Kingdom, 2019, pp. 1-8 - Recipient of the Best Paper Runner Up Paper, [The paper](#)

## Presentations and Posters

- Presentation: Edge Computing: Evolution, Applications, and Research Directions, Faculty of Computing and Information, Al-Baha University, December, 2023.
- Presentation: Task Offloading Decision Making in Mobile Edge Computing, MobiUK, The Department of Computer Science, University of Oxford, July 2019, [Program link](#).
- Poster: Time-Optimized Task Offloading Decision Making in Mobile Edge Computing, Scottish Informatics & Computer Science Alliance (SICSA) PhD Conference, the University of Stirling, Stirling, UK, June 2019.
- Poster: Time-Optimized Task Offloading Decision Making in Mobile Edge Computing, DemoFest, Networking & The Cloud section, Edinburgh, UK, November 2018.
- Poster: Data Placement and Migrations in Mobile Edge Computing, DemoFest, Networking & The Cloud Section, Edinburgh, UK, November 2017.

## Training and Professional Development

- Huawei Cloud Certified Developer Associate HCCDA – Tech Essentials, 2024
- [IBM Artificial Intelligence Practitioner Certificate: Instructor V2](#)
- [IBM AI Analyst 2022 - Mastery Award](#)
- How to write a data management plan, University of Glasgow, 2019.
- Presenting with Impact, University of Glasgow, 2019.
- Introduction to Statistical Inference, University of Glasgow, 2017.
- Introduction to Statistical Modelling, University of Glasgow, 2017.
- Introduction to Design and Analysis of Experiments, University of Glasgow, 2017.

## العروض التقديمية والملصقات

- Presentation: Edge Computing: Evolution, Applications, and Research Directions, Faculty of Computing and Information, Al-Baha University, December, 2023
- Presentation: Task Offloading Decision Making in Mobile Edge Computing, MobiUK, The Department of Computer Science, University of Oxford, July 2019, [Program link](#)
- Poster: Time-Optimized Task Offloading Decision Making in Mobile Edge Computing, Scottish Informatics & Computer Science Alliance (SICSA) PhD Conference, the University of Stirling, Stirling, UK, June 2019
- Poster: Time-Optimized Task Offloading Decision Making in Mobile Edge Computing, DemoFest, Networking & The Cloud section, Edinburgh, UK, November 2018
- Poster: Data Placement and Migrations in Mobile Edge Computing, DemoFest, Networking & The Cloud Section, Edinburgh, UK, November 2017

## التدريب والتطوير المهني

- شهادة هواوي للمطور السحابي المعتمد - 2024
- [IBM Artificial Intelligence Practitioner Certificate: Instructor](#)
- [IBM AI Analyst 2022 - Mastery Award](#)
- كيفية كتابة خطة إدارة البيانات، جامعة غلاسكو، 2019.
- التقديم بشكل مؤثر، جامعة غلاسكو، 2019.
- مقدمة في الاستدلال الإحصائي، جامعة غلاسكو، 2017.
- مقدمة في النمذجة الإحصائية، جامعة غلاسكو، 2017.
- مقدمة في تصميم وتحليل التجارب، جامعة غلاسكو، 2017.

## Service

I am a member of the Scholarship Committee at the College of Sciences and Arts in Baljurashi, Al-Baha Univeristy.

Instructor [for the IBM AI Analyst course](#), Faculty of Computing and Information, Oct 2023.

Reviewer for the Following Journals:

[IEEE Access](#)

[Software: Practice and Experience](#)

[International Journal of Distributed Sensor Networks](#)

[Cybernetics and Systems](#)

I served as a reviewer for, [for the 9th IEEE World Forum on Internet of Things \(IEEE WFIoT2023\)](#), 12–27 October 2023 // Aveiro, Portugal.

I am a Review Editor in [Frontiers in the Internet of Things](#) within [the Journal Frontiers](#) - The Artificial Intelligence of Things section.

I served as a reviewer for the IT Diploma Program, the Applied College, [Northern Border University](#), Oct 2022.

I served as the Head of the Computer Science Department - College of Sciences and Arts, Al-Baha Univeristy, 2011.

## المهام الإدارية والخدمة الاجتمعية

عضو في لجنة الابتعاث بكلية العلوم والآداب ببلجرشي، جامعة الباحة.

مدرب [لدورة محلل الذكاء الاصطناعي من IBM](#)، كلية الحاسبات والمعلومات، أكتوبر 2023.

مراجع ومحكم في المجالات التالية:

[IEEE Access](#)

[Software: Practice and Experience](#)

[International Journal of Distributed Sensor Networks](#)

[Cybernetics and Systems](#)

مراجع، [المنتدى العالمي التاسع لإنترنت الأشياء \(IEEE WFIoT2023\)](#)، 12-27 أكتوبر 2023 // أفبيرو، البرتغال.

أنا محرر في [Frontiers in the Internet of Things](#) ضمن مجلة [Frontiers](#) - قسم الذكاء الاصطناعي للأشياء.

محكم لبرنامج دبلوم تقنية المعلومات، الكلية التطبيقية، [جامعة الحدود الشمالية](#)، أكتوبر 2022.

مشرف قسم علوم الحاسب - كلية العلوم والآداب ببلجرشي، جامعة الباحة، 2011.