



أ. د حسن بن يحيى الفيفي

Professor in Applied Mathematical

Applied math and Computation, Stability & Bifurcations Theories and Numerical Methods

المعلومات الشخصية

الجنسية | سعودي

الكلية | كلية الدراسات التطبيقية وخدمة المجتمع

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الهاتف الخاص بالمكتب | سيسكو 32182

المهارات اللغوية

اللغة	قراءة	كتابة	تحدث
العربية	✓	✓	✓
الإنجليزية	✓	✓	✓

المؤهلات العلمية والشهادات (بدءاً من الأحدث)

التاريخ	الشهادة الأكاديمية	مكان الصدور	العنوان
2013	الدكتوراه	جامعة ولونجونج	أستراليا
2009	الماجستير	جامعة ولونجونج	أستراليا
2003	البكالوريوس	جامعة الطائف	السعودية

عنوان بحث الدكتوراة

Semi-analytical solutions for delay partial differential equations

الدكتوراة

السجل المهني (بدءاً من الأحدث)

التاريخ	مكان وعنوان جهة العمل	رتبة الوظيفة
2023- فبراير	كلية الدراسات التطبيقية وخدمة المجتمع – جامعة الإمام عبد الرحمن بن فيصل	أستاذ
2023 –2021	كلية الدراسات التطبيقية وخدمة المجتمع – جامعة الإمام عبد الرحمن بن فيصل	أستاذ مشارك
2021 –2018	كلية التربية – جامعة الإمام عبد الرحمن بن فيصل	أستاذ مشارك
2018 –2013	كلية التربية – جامعة الدمام	أستاذ مساعد
2013 –2009	كلية التربية – جامعة الدمام	محاضر بقسم الرياضيات
2009 –2003	كلية المعلمين في الدمام – جامعة الملك فيصل	معيد في قسم الرياضيات



المناصب الإدارية (بدءاً من الأحدث)

التاريخ	الكلية	المنصب الإداري
2023- الان	كلية الدراسات التطبيقية وخدمة المجتمع	وكيل الكلية للشؤون الأكاديمية
2022- الان	كلية الدراسات التطبيقية وخدمة المجتمع	رئيس قسم المقررات العامة
2022-2021	كلية التربية – جامعة الإمام عبد الرحمن بن فيصل	وكيل الكلية التربوية للدراسات والتطوير وخدمة المجتمع
2022-2018	كلية التربية – جامعة الإمام عبد الرحمن بن فيصل	وكيل الكلية للدراسات العليا والبحث العلمي
2021- 2014	كلية التربية – جامعة الإمام عبد الرحمن بن فيصل	رئيس قسم العلوم الأساسية
2014- 2013	عمادة السنة التحضيرية – جامعة الدمام	رئيس قسم العلوم الأساسية

الإنجازات العلمية

• الأبحاث العلمية المنشورة (تم الحصول على عدد 17 مكافئة من المجلس العلمي بالجامعة لتمييز في النشر العلمي)

1. Alfifi, H. Y., Almusfar, L., Farhan, A., Alkhasawneh, R., Ahmed, S. and Alhatemi, S. *Principles of Mathematics for Business Administration*, Center for Scientific Publications, Imam Abdulrahman Bin Faisal University, Saudi Arabia, 2024.
2. Alfifi, H. Y and Almuaddi, S. M. Stability analysis and Hopf bifurcation for the Brusselator reaction-diffusion system with gene expression time delay. *Mathematics* 12 (8),1170 , 2024.
3. Alfifi, H. Y. Stability analysis and Hopf bifurcation for the two-species reaction-diffusion-advection competition system with two time delays. *Appl. Math. Comput.*, 474:1-13, 2024.
4. Alfifi, H. Y. Effects of diffusion and delayed immune response on dynamic behavior in a viral model. *Appl. Math. Comput.*, 442:1-11, 2023.
5. Alfifi, H. Y. Stability analysis for Schnakenberg reaction-diffusion model with gene expression time delay, *Chaos, Solitons and Fractals* Chaos, 155 (2022), 111730.
6. Alfifi, H. Y. Stability and Hopf bifurcation analysis for the diffusive delay logistic population model with spatially heterogeneous environment. *Appl. Math. Comput.*, 408:1-14, 2021.
7. Alfifi, H. Y. Semi-Analytical Solutions for the Diffusive Kaldor-Kalecki Business Cycle Model with a Time Delay for Gross Product and Capital Stock. *Complexity*, 1-10, 2021.
8. Alfifi, H. Y. Feedback Control for a Diffusive and Delayed Brusselator Model: Semi-Analytical Solutions. *Symmetry*, 13(4):1-13, 2021.
9. Alfifi, H. Y. The stability and Hopf bifurcation analysis for the delay diffusive neural networks model, The International Conference on Mathematical Sciences and Technology 2020 (MathTech 2020): Sustainable Development of Mathematics & Mathematics in Sustainability Revolution, The School of Mathematical Sciences, University Sains Malaysia, 8-10 December, 2020. (Proceeding # ID: AIPCP21-AR-MATHTECH2020-00016).
10. El-Moneim ,A. A. and Alfifi, H. Y. Germanate glasses containing lead and bismuth oxides: Correlation between elastic and compositional parameters. *Journal of Non-Crystalline Solids*, 546: 1-10,2020.
11. Alfifi, H. Y. Semi analytical solutions for the Diffusive Logistic Equation with Mixed Instantaneous and Delayed Density Dependence. *Adv. Differ. Equ.*, 162:1-15, 2020.
12. El-Moneim ,A. A. and Alfifi, H. Y. On the analysis and prediction of elastic properties in alkali Na₂O-B₂O₃-V₂O₅ glasses under the substitution of V₂O₅ by Na₂O. *Physics and Chemistry of Glasses Science and Technology Part B.*, 60: 213-221,2019.
13. Alfifi, H. Y. Semi-analytical solutions for the delayed and diffusive viral infection model with logistic growth. *J. Nonlinear Sci. Appl.*, 2019, 12(9): 589-601.
14. Alfifi, H. Y. and Marchant, T. R, Feedback Control for a Diffusive Delay Logistic Equation: semi-analytical solutions. 2018, *IAENG International Journal of Applied Mathematics*, 48(3): 317-323,2018.
15. Atta-ur-Rahman, Nahier Aldhaffer, Abdullah Alqahtani and H.Y.Alfifi. Adaptive Communication for Capacity Enhancement: A Hybrid Intelligent Approach. *Journal of Computational and Theoretical Nanoscience* , 2018, 15(4): 1182-1191.



16. El-Moneim ,A. A. and Alfifi, H. Y. A new factor for predicting the acoustical properties of oxide glasses. Physics and Chemistry of Glasses Science and Technology Part B. , 2018, 59: 97-104.
17. El-Moneim ,A. A. and Alfifi, H. Y. Approach to dissociation energy and elastic properties of vanadate and V2O5-contained glasses from single bond strength: Part I.2018, Mater Chem Phy, 207: 271-281.
18. G.O. Malkawi, and H.Y. Alfifi, The Consistency of Fully Fuzzy Linear System ($P - FFLS$), Proceedings of the 13th IMT-GT International Conference on Mathematics, Statistics and their Applications (ICMSA2017), Kedah, Malaysia, AIP Conference Proceedings 1905, 020004.
19. Alfifi, H. Y. Semi-analytical solutions for the Brusselator reaction-diffusion model. ANZIM J., 2017, 59(2): 167-182.
20. Alfifi, H. Y., Helal, O. and Mohammed, O. Principles of Mathematics, Al - Rashed, Riyadh , Kingdom of Saudi Arabia, 2017.
21. Alfifi, H. Y. and Abed, J. Factors Contributing to Students' Academic Performance in the Education College a Dammam University. 2017, Education J., 6(2): 77-83.
22. Alfifi, H. Y. Semi-analytical solutions for the delayed diffusive food-limited model. 2017, 7th International Conference on Modelling, Simulation, and Applied Optimization (ICMSAO), Sharjah, United Arab, Emirates, pages 1-5.
23. Alfifi, H. Y., Marchant, T. R, and Nelson, M. Non-smooth feedback control for Belousov-Zhabotinskii reaction-diffusion equations: semi-analytical solutions. 2016, J. Math Chem, 54:1632-1657.
24. Alfifi, H.Y., Ben Saad, I., Turki, S and Z.Z.El Abidine. Existence and Asymptotic Behavior of Positive Solutions for a Coupled System of Semilinear Fractional Differential Equations. 2017, Results. Math. 3(4): 705-730.
25. Alfifi, H. Y., Marchant, T. R and Nelson, M. I. Semi-analytical solutions for the 1- and 2-D diffusive Nicholson's blowflies equation. 2014, IMA J. Appl. Math. 79: 175-199.
26. Alfifi, H. Y., Marchant, T. R and Nelson, M. I. 2012, Generalised diffusive delay logistic equations: semi-analytical solutions. Dynam. Cont. Dis. Ser. B, 19:579-596.

• الدورات التدريبية وورش العمل

1. Workshop on "High Quality Continuing Education Experience ", 15 Sep 2024, Deanship of E - learning at IAU.
2. Workshop on "Educational Activities in E-courses", 10 SEP 2024, Centre of leadership at University of IAU.
3. Workshop on "Research ethics", 7 May 2024, College of Applied Studies and Community Service, IAU.
4. Workshop on "**Effective Strategies for Team Based Learning**", 25 Mar 2024, The Deanship of Academic Development at Imam Abdulrahman
5. Workshop on "Steps of Scientific Thinking Necessary to Build a Methodologically Disciplined Research Plan", 15 Feb 2024, College of Applied Studies and Community Service, IAU.
6. Workshop on "Creative and Active Teaching Strategies ", 14 Feb 2024, Deanship of E - learning at IAU.
7. Workshop on " Enhancing the role of leaders towards generative artificial intelligence applications ", 13 Feb 2024, Centre of leadership at University of IAU.
8. Workshop on "Research and Teaching with World Scientific Resources in Mathematics, Computer Sciences and other STEM Subjects", 14 Nov 2023, MA GROUP AG, The Deanship of Library Affairs at University of IAU.
9. Workshop on "Alternative assessment tools", 19 Sep 2023, Centre for Quality of Assessment and Examinations at University of IAU.
10. Workshop on " The use of statistics in support of scientific research", 24 May 2023, College of Applied Studies and Community Service, IAU.
11. Workshop on " **Use of the Endnote**", 23 May 2023, College of Applied Studies and Community Service, IAU.
12. Workshop on "Using Chat GPT at work and education", 22 May 2023, Deanship of E - learning at IAU.
13. Workshop on " Using the Web of science database to identify the research problem", 14 Feb 2023, The Deanship of Library Affairs at University of IAU.



14. Workshop on “**Learning outcomes measurement using Blackboard**”, 20 Feb 2023, Deanship of E - learning at IAU.
15. Workshop on “**How to select the right journal for you in Scopus?**”, 14 Feb 2023, Presented by Senior Regional Consultant - RI, Elsevier Researcher Academy.
16. Workshop on “**Cloud computing**”, 31-Jan & 01 Feb 2023, Deanship of Information and Communication Technology at IAU.
17. Workshop on “**Building the course menu in Blackboard**”, 31 Jan 2023, Deanship of E - learning at IAU.
18. Workshop on “**Preparation and Management Electronic Examinations**”, Jan 2023, Deanship of E - learning at IAU.
19. Workshop on “**Effective Leadership**”, 06 Sep 2022, Academic Leadership Centre - IAU.
20. Workshop on “**Summon Discovery Tool**”, 14 Dec 2021, The Deanship of Library Affairs at University of IAU.
21. Workshop on “**Specific Databases (Arabic & English)**”, 1 Nov 2021, The Deanship of Library Affairs at University IAU.
22. Workshop on “**Advanced EBooks Searching**”, 21 Oct 2021, The Deanship of Library Affairs at University of IAU.
23. Workshop on “**Introduction of Summon**”, 19 Oct 2021, The Deanship of Library Affairs at University of IAU.
24. Workshop on “**Professional Fellowship in University Teaching and Learning (PFUTL) Information Session (Information/Q & A)**”, 20 Sep 2021, The Deanship of Academic Development at University of IAU.
25. Workshop on “**Positive Thinking (key to excellence)**”, 20 Sep 2021, The Deanship of Academic Development at University of IAU.
26. Workshop on “**Activate Google Extensions in Education**”, 14 Sep 2021, The Deanship of Academic Development at University of IAU.
27. Workshop on “**Facilitating Metacognitive Strategies in the Classroom**”, 7 Jun 2021, The Deanship of Library Affairs at University of IAU.
28. Workshop on “**Effective Strategies for Team-Based Learning**”, 25 May 2021, The Deanship of Library Affairs at University of IAU.
29. Workshop on “**Scientific applications for publishing in Scopus databases**”, 27 Jan 2021, The Deanship of Library Affairs at University of IAU.
30. Workshop on “**Blackboard - advanced**”, 15 Sep 2020, The Deanship of Academic Development at University of IAU.
31. Workshop on “**The role of the faculty member in developing professional performance**”, 14 Sep 2020, The Deanship of Academic Development at University of IAU.
32. Workshop on “**High-Quality Assessment through the Use of Rubrics**”, 9 Sep 2020, The Deanship of Academic Development at University of IAU.
33. Workshop on “**Teaching the 21st Century Skills in the Classroom**”, 30 Aug 2020, The Deanship of Academic Development at University of IAU.
34. Workshop on “**Boosting Innovation and Entrepreneurship in University Education**”, 13-14 Nov 2019, The Deanship of Academic Development at University of IAU (Finland University).
35. Workshop on “**Finnish Education Success in Entrepreneurship and Innovation**”, 12 Nov 2019, The Deanship of Academic Development at University of IAU.
36. Workshop on “**How to use Question Mark Tools in the Blackboard**”, 9 Oct 2019, Deanship of E - learning , Imam Abdulrahman Bin Faisal University.
37. Workshop on “**Teacher Preparation Programs in Saudi Universities**”, 25-26 Mar 2019, Ministry of Education. Riyadh-Saudi Arabia.
38. Workshop on “**SWOT Analysis for Deanship of Faculty and Personnel Affairs**”, 13 Feb 2019, Deanship of E - learning , Imam Abdulrahman Bin Faisal University.
39. Workshop on “**Experience of the University of Melbourne in Australia for the renewal of teacher preparation programs**”, 20-21 Jan 2019, Ministry of Education. Riyadh-Saudi Arabia.
40. Workshop on “**Advanced courses in E-learning program**”, 9 -10 Jan 2018, Deanship of E - learning , Imam Abdulrahman Bin Faisal University.
41. Workshop on “**Advanced Academic Leadership Forum**”, 3 -4 Dec 2017, Academic Leadership Centre - Ministry of Education (Riyadh-Saudi Arabia).



42. Workshop on " **Decision making and problem solving**", 26 Nov 2017, Academic Leadership Centre - Ministry of Education (Khobar-Saudi Arabia).
43. Workshop on " **Academic Leadership Forum in Higher Education**", 4 -6 Dec 2016, Academic Leadership Centre - Ministry of Education (Riyadh-Saudi Arabia).
44. Workshop on " **The Essential Academic Leader**", 17-16 Oct 2016, Academic Leadership Centre - Ministry of Education (Khobar-Saudi Arabia).
45. Workshop on " **Positive Academic Leadership**", 22 Oct 2015, Academic Leadership Centre - Ministry of Education (Khobar-Saudi Arabia).
46. Workshop on " **Promoting Innovation in Higher Education**", 15-16 Feb 2015, Academic Leadership Centre - Ministry of Education (Khobar-Saudi Arabia).
47. **Developing Core Competencies in Teaching and Learning in Higher Education** (Training Course), 26-29 Jan 2015, The Deanship of Academic Development at University of Dammam.
48. Workshop on " **Optimize the Use of Web Science's Services**", 18 December 2014, Vice Presidency for Postgraduate Studies and Scientific Research at University of Dammam with Thomson Reuters.
49. Workshop on " **Learning How to Use Endnote**", 17 December 2014, Vice Presidency for Postgraduate Studies and Scientific Research at University of Dammam with Thomson Reuters.
50. **Teacher for Creativity & Innovation Workshop**, 17-18 November 2014, The Deanship of Academic Development at University of Dammam.
51. Workshop on " **How to Publish Your Research**", 12 November 2014, The Deanship of Library Affairs at University of Dammam.
52. Workshop on " **Evaluating Students on Blackboard Program**", 7 November 2014, The Deanship of Academic Development at University of Dammam.
53. **Academic Leader Effective Skills** (Training Course), 15-19 June 2014, Hold by Birtish Learning Centre in Istanbul - Turkey.
54. SPSS Program Workshop (**Statistical Package for the Social Sciences**), 7 July 2012, University of Wollongong (Australia).
55. Maple Program Workshop (Package for the Social Sciences), 2011, University of Wollongong (Australia).
56. English Language Course, 26 June - 21 July 2006, EF International School of English, Auckland, New Zealand.
57. English Language Course, 25 December - 2 April 2005, Direct English, Al Khobar, Kingdom of Saudi Arabia.
58. Workshop on " **Ten Key Skills for Academic Success and Excellence**", 19 March 2005, The Teachers' College Dammam, Kingdom of Saudi Arabia.
59. **Critical and Creative Thinking Workshop**, 18 March 2005, The Teachers' College Dammam, Kingdom of Saudi Arabia.
60. **Scholarship Course**, 19 - 30 March 2005, Dhahran, Saudi Arabia.

● المؤتمرات والندوات العلمية

- 1- GITEX Global and Global DevSlam Conference, 16- 20 Oct 2023, Dubai, United Arab, Emirates.
- 2- HPC Saudi 2022 conference, held on Sep 27-29, 2022, College of Computer Science and Information Technology , Imam Abdulrahman Bin Faisal University, Kingdom of Saudi Arabia.
- 3- 5th Conference on Mathematical Science and Applications (CMSA), 17-18 November, 2021, Saudi Association for Mathematical Sciences(SAMS) in collaboration with KAUST, King Abdullah University of Science and Technology (KAUST), Kingdom of Saudi Arabia
- 4- The Second International Conference of Mathematics and its Applications (ICMA2021), 19-20 October, 2021, School of Mathematics and Statistics , King Khalid University, Abha, Kingdom of Saudi Arabia.



- 5- The International Conference on Mathematical Sciences and Technology 2020 (MathTech 2020): Sustainable Development of Mathematics & Mathematics in Sustainability Revolution, 8 -10 December, 2020, School of Mathematical Sciences, University Sains, Malaysia.
- 6- 2nd Forum of educational affairs in the Eastern Region, 28-29 Mar 2019, Imam Abdulrahman Bin Faisal University.
- 7- The 1st Meeting of Mathematics Departments in Saudi Universities , 13 Apr 2019, KAUST, Saudi Arabia.
- 8- 13th IMT-GT International Conference on Mathematics, Statistics and their Applications (ICMSA2017), 1 - 2 December 2017, Kedah, Malaysia, AIP Conference Proceedings 1905, 020004.
- 9- 7th International Conference on Modelling, Simulation, and Applied Optimization (ICMSAO), 2 - 4 April 2017, Sharjah, United Arab, Emirates.
- 10- First National Conference for Social networks: Awareness and Prevention, 11 Nov 2015, University of Dammam , Kingdom of Saudi Arabia.
- 11- 2015 SIAM Conference on Applications of Dynamical Systems, 17 - 21 May 2015, Snowbird Ski and Summer Resort, Snowbird, Utah, USA.
- 12- First National Conference for Prep Year in Saudi Universities, 22 - 23 April 2015, Dammam , Kingdom of Saudi Arabia.
- 13- International Exhibition & Conferences on Higher Education, 15 - 18 April 2014, Riyadh , Kingdom of Saudi Arabia.
- 14- Cairo International Book Exhibition (45), 22 January - 4 February 2014, Cairo , Egypt.
- 15- ANZIAM 2011, Australia and New Zealand Industrial Applied Mathematics, 30 January - 3 February 2011 at Stamford Grand Hotel, Glenelg, South Australia.
- 16- 2010 ACT & NSW Joint Mini-meeting, 3 - 4 December 2010 , Berry Village Boutique Hotel, NSW, Australia.
- 17- NSW Joint Mini-meeting, 15 November 2012 ,University of Wollongong, NSW, Australia.

أنشطة التدريس *

* تم الحصول على شهادة تميز في تدريس مقررات التعليم الإلكتروني لمادة مبادئ الرياضيات من عمادة التعليم الإلكتروني والتعليم لعام 2019

#	المقرر	رقم المقرر	مجال المساهمة
1	هندسة مستوية	MATH403	تدريس
2	مبادئ الرياضيات	MATH104	تدريس
3	اساسيات الجبر	MATH304	تدريس
4	أحصاء للإدارة	MATH223	تدريس
3	معادلات تفاضلية	في خطة الرياضيات السابقة	تدريس
4	تفاضل وتكامل 1	في خطة الرياضيات السابقة	تدريس
5	تفاضل وتكامل	السنة التحضيرية	تدريس
6	تحليل العددي	في خطة الرياضيات السابقة	تدريس



المهام الإدارية وخدمة المجتمع

• المهام الإدارية

#	من	إلى	المنصب	الجهة
1	2024	الآن	عضو اللجنة الدائمة لاستقطاب أعضاء هيئة التدريس ومتابعة الأعباء التدريسية	نائب الرئيس للشؤون الأكاديمية
2	2024	الآن	عضو اللجنة العلمية لمركز النشر العلمي	نائب الرئيس للدراسات العليا والبحث العلمي
3	2023	الآن	وكيل الكلية للشؤون الأكاديمية	كلية الدراسات التطبيقية وخدمة المجتمع
4	2022	الآن	رئيس قسم المقررات العامه	كلية الدراسات التطبيقية وخدمة المجتمع
5	2018	2022	وكيل الكلية للدراسات العليا والبحث العلمي	كلية التربية
6	2021	2022	وكيل الكلية للدراسات والتطوير وخدمة المجتمع	كلية التربية
7	2014	2022	رئيس قسم العلوم الأساسية	كلية التربية
8	2018	2022	عضو لجنة لضبط سلوك الطلاب	كلية التربية
9	2016	الآن	عضو لجنة دائمة (العلوم الأساسية - مستشار التخصصات العلمية) .	وزارة الموارد البشرية والتنمية الاجتماعية في الرياض
10	2018	2020	عضو فريق بناء المناهج الخاص ببرنامج إعداد معلم الصفوف العليا للمرحلة الابتدائية والمرحلة المتوسطة والثانوية بجامعة الإمام عبدالرحمن بن فيصل	وزارة التعليم في الرياض
11	2020	2022	عضو لجنة إعداد الخطة الاستراتيجية وخطة إدارة المخاطر لعمادة البحث العلمي	عمادة البحث العلمي
12	2020	2021	عضو المجلس العلمي في الجامعة	المجلس العلمي بوكالة الجامعة للدراسات العليا والبحث العلمي
13	2021	2022	عضو لجنة للدراسة الوضع الراهن للنشر العلمي لطلاب الدراسات العليا في الجامعة	وكالة الجامعة للدراسات العليا والبحث العلمي
14	2021	2022	عضو لجنة الإشراف العلمي المشترك للدراسات العليا التربوية	وكالة الجامعة للدراسات العليا والبحث العلمي
15	2014	2015	عضو لجنة الجودة	كلية التربية
16	2013	2014	رئيس قسم العلوم الأساسية	عمادة السنة التحضيرية

• الخدمة المجتمعية والساعات التطوعية

#	عدد الساعات لعام	2024-2022	2025
1	بنك المسؤولية المجتمعية في IAU	8839	Not Yet
2	المنصة الوطنية للعمل التطوعي	218	Not Yet

• عضوية اللجان

#	من	إلى	المنصب	الجهة
1	2016	الآن	عضو لجنة دائمة (مستشار)	وزارة الموارد البشرية والتنمية الاجتماعية
2	2011	الآن	جمعية SIAM	USA



• الاستشارات العلمية

#	من	إلى	الجهة	وقت كامل - وقت جزئي
1	2016	الآن	وزارة الموارد البشرية والتنمية الاجتماعية	لجنة دائمة - لجنة العلوم الأساسية والتطبيقية
2	2018	2020	وزارة التعليم	برامج اعداد المعلم

الكفاءات والمهارات الشخصية (الحاسب, تقنية المعلومات, التقنية .. الخ)

Maple (Very good)	1
Latex and	2
Tic plot, Gun Plot.	3

آخر تحديث

10/2024