

JEYA AMANTHA KUMAR

Research Assistant Professor

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EDUCATION

Ph.D., Education Technology — Instructional Systems Development Universiti Sains Malaysia	2016
M.Ed., Technical & Vocational Kolej Universiti Teknologi Tun Hussein Onn, Johor, Malaysia	2003
B.Sc. of Electrical Engineering — Computer Technology (Honors) Universiti Teknologi Malaysia, Johor, Malaysia	2001

ACADEMIC APPOINTMENTS

Research Assistant Professor FedEx Institute of Technology, University of Memphis	Nov 2025 – Present
Research Associate Evidence-Driven Learning Innovation (EDLI) (Formerly known as Enhanced Digital Learning Initiative), Michigan State University, East Lansing, Michigan, USA	March 2024 – Oct 2025
Assistant Professor / Senior Lecturer Centre for Instructional Technology and Multimedia, Universiti Sains Malaysia, Pulau Pinang, Malaysia (QS World University Rankings= 134)	August 2017 – September 2023
Lecturer (Part-Time) Asia E-University, Seberang Jaya, Pulau Pinang, Malaysia	July 2018 – July 2019
Senior Lecturer Department of Petrochemical Engineering Polytechnic Tun Syed Nasir Syed Ismail, Pagoh, Johor, Malaysia	September 2016 – July 2017
Visiting Researcher School of Information and Library Studies, University College of Dublin, Ireland <i>Research Supervisor: Prof Dr. Benjamin R Cowan</i>	July 2015 – August 2015
Visiting Researcher Department of Information Technology, Limerick Institute of Technology, Ireland <i>Research Supervisor: Denise McEvoy</i>	September 2015
Lecturer Executive Degree Programme, Open University Malaysia	June 2014
Senior Lecturer Electrical Engineering Department, Polytechnic Tuanku Sultanah Bahiyah, Kedah, Malaysia	July 2007 – August 2013
Senior Lecturer Department of Maths and Science & Information Technology Department Polytechnic Ungku Omar, Perak, Malaysia	January 2003 – June 2007

EDITORIAL APPOINTMENTS

- Academic Editor, PLOS ONE (June 2024–Present); indexed in Web of Science Q1.
- Associate Editor, Educational Technology, Journal of University Teaching and Learning Practice (September 2024–Present); indexed in Scopus Q1 and ESCI.

SELECTED RECOGNITION

- Stanford/Elsevier Top 2% Scientist — Social Sciences/Education (2024 and 2025).
- VIWA Outstanding Women Researcher in Educational Technology (2023).

EXPERTISE

Educational Expertise

Instructional Design, Educational Technology, Digital Learning, Human-Computer Interaction, Emotional Design in Learning, Multimedia Learning, MOOCs and Micro-Credentials, E-learning Development, Curriculum Development, Teaching and Training Coordination, Blended and Online Learning, Educational chatbot, Engineering education and Pre-Service Teachers Education

Research Expertise

Behavioral Research in Education, Mixed-Method Research (Quantitative & Qualitative), Facial Emotion Recognition (iMotion), Gaze Behavior Analysis, PLS-SEM, VosViewer and SPSS Analysis, Thematic and Semantic Analysis, AI in Education, Technology Acceptance Models, Robotics in Education, Collaborative and Team-Based Learning

PEER-REVIEWED JOURNAL ARTICLES

1. Kumar, J.A., Salim, Z., Annamalai, N., Dhaliwal, D., Singh, A.D (2026). A field in fast-forward: thematic evolution of generative AI research in higher education through bibliometric analysis. *Quality & Quantity*. <https://doi.org/10.1007/s11135-026-02982-w>
2. Abdelkader, M.A, **Kumar, J.A.***, Osman, S., Schopieray, S. (2026). Bridging Individual Confidence within Team Dynamics: A Focus on Pre-Service Teachers' Use of Digital Collaborative Platform, *Computers & Education*, (In Press) <https://doi.org/10.1016/j.compedu.2026.105702>
3. Fitzgerald,R., **Kumar, J.A.**, Roe, J., Roehrer, E., Yang, J. (2025). Framing the Future with a Research Agenda for Artificial Intelligence in Higher Education. *Journal of University Teaching and Learning Practice*, 22(4). Editorial: <https://doi.org/10.53761/jwt7ra63>
4. **Kumar, J.A.***, Sun, H, Van Hof, J., Vendepol, N. (2025). Midsemester Course Feedback from Students as Reflective Practice: A Pilot Exploratory Study on Instructors' and Students' Insights; *Innovations in Education and Teaching International*. <https://doi.org/10.1080/14703297.2025.2559199> (Scopus)
5. D. Li, S. Osman*, N. S. A. Alhassora, **J. A. Kumar** and S. Kartini Said Husain (2025), Empowering K-12 Mathematics Teachers with Artificial Intelligence: A Systematic Review of Insights, Applications, and Challenges. *IEEE Access*, vol. 13, pp. 117198-117209. <https://doi.org/10.1109/ACCESS.2025.3585784>.(WOS,Scopus)
6. Al-Mamari, H. S. M., & **Kumar, J. A.** (2025). Role of Prior Experience with Online Teaching and Learning in the Prediction of MOOC Readiness. *Journal of Learning for Development*, 12(1), 220–231. <https://doi.org/10.56059/jl4d.v12i1.1247> (Scopus)
7. **Kumar, J.A.***, Zhuang, M & Thomas, S. (2024). ChatGPT for natural sciences course design: Insights from a SWOT analysis, *Natural Science Education*. <https://doi.org/10.1002/nse2.70003> (Scopus)
8. **Kumar, J.A.*** (2024). Facial Animacy in Anthropomorphised Designs: Insights from Leveraging Self-Report and Facial Expression Analysis for Multimedia Learning. *Computer & Education*. Volume 223. <https://doi.org/10.1016/j.compedu.2024.105150>_(WOS Q1, IF 8.9).
9. Al-Mamari, H.S.M, **Kumar,J.A.***, & Bervell, B (2024). MOOCs adoption among Omani faculty members: investigating the effects of gender and faculty disciplines on readiness. *Journal of Educators Online*, 21(3). <https://doi.org/10.9743/jeo.2024.21.3.10>. Index: Scopus
10. Varaman, P., **Kumar, J. A.***, Abdul Rabu, S. N., & Osman, S. (2024). The Effect of Educational Robots on Primary Schools' Mathematics Learning Achievement, Interest, and Attitude. *Journal of Educators Online*, 21(2). <https://doi.org/10.9743/JEO.2024.21.2.17>. Index: Scopus
11. Khoo, N. A. K. A. F., Osman, S., Daud,M. F., **Kumar,J. A.**, &Kurniati, D. (2024). The implications of digital communication between parents and teachers from a teachers' point of view. *Humanities, Arts and Social Sciences Studies*, 24(1), 184–195. Index: Scopus Q3
12. Suparman, I., **Kumar, J. A.***, & Osman, S. (2023). English learners' intentions to adopt online learning post-pandemic: Ease precedes usefulness. *Comunicar: Revista Científica de Comunicación y Educación*, 31(77). <https://doi.org/10.3916/C77-2023-03> . Index: WOS Q1, IF 5.1
13. **Kumar, J. A.***, Ibrahim, N., McEvoy, D., & Sehsu, J. (2023). Anthropomorphised learning contents: Investigating learning outcomes, epistemic emotions and gaze behaviour. *Education and Information Technologies*, 28, 7877–7897. <https://doi.org/10.1007/s10639-022-11504-8>. Index: WOS Q1, IF 4.8
14. **Kumar, J. A.***, Silva, P. A., Osman, S., & Bervell, B. (2023). Hey, let's take a selfie: insights of selfie defamiliarisation in the classroom. *Online Information Review*, 47(5), 820-837. <https://doi.org/10.1108/OIR-11-2021-0608>. Index: WOS Q1, IF 2.901
15. Aliyu, J., Osman, S., **Kumar, J. A.**, & Mohd Jamil, M. R. (2023). The design and development of a learning strategy to enhance students' engagement in simultaneous equations: An evaluation viewpoint. *Journal of Technology and Science Education*, 13(1), 36-52. <https://doi.org/10.3926/jotse.1691>_. Index: Scopus Q4
16. Varaman, P., **Kumar, J. A.**, & Abdul Rabu, S. N. (2023). The Effect of Using the Frog Virtual Learning Platform for Mathematics Education in Primary Schools. *Journal of Creative Practices in Language Learning and Teaching (CPLT)*, 11(3), 68-82. <https://10.24191/cplt.v11i3.25100>. Index: MyCite
17. Ahmad, S., **Kumar, J. A.**, Mohamad, M., & Sanusi, A. M. (2023). Profiling Engineering Students' Receptive Vocabulary in Malaysian Polytechnics. *Journal of Creative Practices in Language Learning and Teaching*, 11(3), 206-215. <https://10.24191/cplt.v11i3.25108>. Index: MyCite
18. **Kumar, J. A.***, Richard, R. J., Osman, S., & Lawrence, K. (2022). Micro-credentials in leveraging emergency remote teaching: The relationship between novice users' insights and identity in Malaysia. *International Journal of Educational Technology in Higher Education*. <https://doi.org/10.1186/s41239-022-00323-z>. Index: WOS Q1, IF 7.6
19. **Kumar, J. A.***, Osman, S., Sanmugam, M., & Rasappan, R. (2022). Mobile learning acceptance post pandemic: A behavioural shift among engineering undergraduates. *Sustainability*, 14(6), 3197. <https://doi.org/10.3390/su14063197>. Index: WOS Q2, IF 3.9
20. Bervell, B., **Kumar, J. A.***, Arkorful, V., Agyapong, E. M., & Osman, S. (2022). Remodelling the role of facilitating conditions for Google Classroom acceptance: A revision of UTAUT2. *Australasian Journal of Educational Technology*, 38(1), 115-135. <https://doi.org/10.14742/ajet.7178>. Index: WOS Q1, IF 4.1
21. Samaila, K., Md. Khambari, M. N., **Kumar, J. A.***, & Masood, M. (2022). Factors Influencing Postgraduate Students' Intention to Use Learning Management System. *Tuning Journal for Higher Education*, 9(2), 151-176. <https://doi.org/10.18543/tjhe.2177>. Index: ESCI, Scopus Q4

22. Bervell, B., Umar, I. N., Masood, M., **Kumar, J. A.**, Armah, J. K., & Somuah, B. A. (2022). Promoting Voluntary Use Behavior of Learning Management Systems Among Tutors for Blended Learning in Distance Higher Education. *Contemporary Educational Technology*, 14(4), ep379. <https://doi.org/10.30935/cedtech/12193>. Index: Scopus Q1
23. Annamalai, N., Ab Rashid, R., Alqaryouti, M. H., Sadeq, A. E., Al-Smadi, O. A., & **Kumar, J. A.** (2022). Online Teaching Practicum in Malaysia in the Time of COVID-19 Pandemic. *Frontiers in Psychology*, 13, Article 871971. <https://doi.org/10.3389/fpsyg.2022.871971>. Index: WOS Q1
24. Aliyu, J., Osman, S., **Kumar, J. A.**, Abdul Talib, C., & Jambari, H. (2022). Students' Engagement through Technology and Cooperative Learning: A Systematic Literature Review. *International Journal of Learning and Development*, 12(3), 2340-2340. Index: ERA
25. Ahmad Fuad Khoo, N. A., Osman, S., Daud, M. F., Abu, M. S., Ismail, N., & **Kumar, J. A.** (2022). Looking Through Different Point of Views: Characteristics of a Good Mathematics Teacher. *ASM Science Journal*, 17, 1-12. <https://doi.org/10.32802/asmscj.2022.859>. Index: Scopus Q4
26. **Kumar, J. A.*** (2021). Educational chatbots for project-based learning: investigating learning outcomes for a team-based design course. *International Journal of Educational Technology in Higher Education*, 18, 65. <https://doi.org/10.1186/s41239-021-00302-w>. Index: WOS Q1, IF 7.611
27. **Kumar, J. A.***, Silva, P. A., & Prelath, R. (2021). Implementing studio-based learning for design education: a study on the perception and challenges of Malaysian undergraduates. *International Journal of Technology and Design Education*, 31, 611-631. <https://doi.org/10.1007/s10798-020-09566-1>. Index: WOS Q3, IF 2.177
28. Annamalai, N., Ramayah, T., **Kumar, J. A.***, & Osman, S. (2021). Investigating the use of Learning Management System (LMS) for Distance Education in Malaysia: A Mixed-Method Research. *Contemporary Educational Technology*, 13(3). <https://doi.org/10.30935/cedtech/10987>. Index: Scopus Q1
29. Sanmugam, M.*, **Kumar, J. A.**, & Selvarajoo, A. (2021). Effects of Gamified Learning on Students of Different Player Traits in Malaysia. *IAFOR Journal of Education: Studies in Education*, 9(6). <https://doi.org/10.22492/ije.9.6>. Index: Scopus Q4
30. Bervell, B.*, Naufal, I., **Kumar, J. A.**, Somuah, B. A., & Arkorful, V. (2021). Blended Learning Acceptance Scale (BLAS) in Distance Higher Education: Toward an Initial Development and Validation. *SAGE Open*, 11(3). <https://doi.org/10.1177/21582440211040073>. Index: WOS Q2, IF 2.032
31. Aliyu, J., Osman, S., Daud, M. F., & **Kumar, J. A.** (2021). Mathematics Teachers' Pedagogy through Technology: A Systematic Literature Review. *International Journal of Learning, Teaching and Educational Research*, 20(1), 323-341. <https://doi.org/10.26803/ijlter.20.1.18>. Index: Scopus Q4
32. **Kumar, J. A.***, Bervell, B., & Osman, S. (2020). Behavioral Intention to Use Mobile Learning: Evaluating the Role of Self-Efficacy, Subjective Norm, and WhatsApp Use Habit. *IEEE Access*, 8, 208058-208074. <https://doi.org/10.1109/ACCESS.2020.3037925>. Index: WOS Q2, IF 3.367
33. **Kumar, J. A.***, Bervell, B., & Osman, S. (2020). Google Classroom: Insights from Malaysian higher education students' and instructors' usage experiences. *Education and Information Technologies*, 25, 4175-4195. <https://doi.org/10.1007/s10639-020-10163-x>. Index: WOS Q2, IF- 2.917
34. **Kumar, J. A.***, Kumar, V., Sanmugam, M., & Osman, S. (2020). Mobile apps for learning: Exploring IT undergraduates' preference in Malaysia. *Journal of Computational and Theoretical Nanoscience*, 17(2-3), 1113-1116. <https://doi.org/10.1166/jctn.2020.8775>. None Indexed
35. **Kumar, J. A.***, Rajamanickam, S., & Osman, S. (2020). Exploring the use of mobile apps for learning: A survey among final year engineering undergraduates in Malaysia. *ASM Science Journal*, 13(Special Issue 3), 63-67. Index: Scopus Q4
36. Ganesen, P., Osman, S., Abu, M. S., & **Kumar, J. A.** (2020). The Relationship Between Learning Styles and Achievement of Solving Algebraic Problems Among Lower Secondary School Students. *International Journal of Advanced Science and Technology*, 29(9s), 2563-2574. Index: ERA
37. Saundarajan, K., Osman, S., **Kumar, J. A.**, Daud, M. F., Abu, M. S., & Pairan, M. R. (2020). Learning Algebra using Augmented Reality: A Preliminary Investigation on the Application of Photomath for Lower Secondary Education. *International Journal of Emerging Technologies in Learning (IJET)*, 15/16, 123-133. <https://doi.org/10.3991/ijet.v15i16.10540>. Index: Scopus Q2
38. Annamalai, N.*, & **Kumar, J. A.** (2020). Understanding Smartphone use Behavior among Distance Education Students in Completing their Coursework in English: A Mixed-Method Approach. *The Reference Librarian*. <https://doi.org/10.1080/02763877.2020.1815630>. Index: Scopus Q2
39. Li Ying, C., Osman, S., Kurniati, D., Masykuri, E. S., **Kumar, J. A.**, & Hanr, C. (2020). Difficulties that Students Face when Learning Algebraic Problem-Solving. *Universal Journal of Educational Research*, 8(11), 5405-5413. <https://doi.org/10.13189/ujer.2020.081143>. Index: Scopus Q4 and ERA
40. **Kumar, J. A.** & Al-Samarraie, H.* (2019). The Investigation of Novice Pre-University Students' Views towards MOOCs: The Case of Malaysia. *The Reference Librarian*, 20(2), 134-147. <https://doi.org/10.1080/02763877.2019.1572572>. Index: Scopus Q2
41. **Kumar, J. A.** & Bervell, B.* (2019). Google Classroom for mobile learning in higher education: Modelling the initial perception of students. *Education and Information Technologies*, 24, 1793-1817. <https://doi.org/10.1007/s10639-018-09858-z>. Index: Scopus Q1, ESCI
42. **Kumar, J. A.***, Muniandy, B., & Wan Yahaya, W. A. J. (2019). Exploring the effects of emotional design and emotional intelligence in multimedia-based learning: an engineering educational perspective. *New Review of Hypermedia and Multimedia*, 25(1-2), 57-86. <https://doi.org/10.1080/13614568.2019.1596169>. Index: Scopus Q2, WOS Q4 (IF-0.889)
43. **Kumar, J. A.** & Al-Samarraie, H.* (2018). MOOCs in the Malaysian higher education institutions: the instructors' perspectives. *The Reference Librarian*, 59(3), 163-177. <https://doi.org/10.1080/02763877.2018.1458688>. Index: Scopus Q2
44. **Kumar, J. A.***, Muniandy, B., & Wan Yahaya, W. A. J. (2018). Exploring the effects of visual aesthetics in e-learning for engineering students. *Knowledge Management & E-Learning: An International Journal*, 10(3), 250-264. <https://doi.org/10.34105/j.kmel.2018.10.015>. Index: Scopus Q3, ESCI

45. **Kumar, J. A.***, Muniandy, B., & Wan Yahaya, W. A. J. (2018). Exploring How Emotional Intelligence and Academic Achievement Influences E-Learning Achievement: A Case Study in Malaysian Polytechnics. *Advanced Science Letters*, 24(1), 226-229(4). <https://doi.org/10.1166/asl.2018.11967>. Index: ESCI
46. **Kumar, J. A.**, Osman, S., & Pranchis, R. K. M. (2018). A preliminary study on pre-service TESOL teachers' attitudes towards the use of ICT for teaching in Malaysia. *Journal of Fundamental and Applied Sciences*, 10(1S), 1268-1275. None Indexed
47. Osman, S., Che Yang, C. N. A., Abu, M. S., Ismail, N., Jambari, H., & **Kumar, J. A.** (2018). Enhancing Students' Mathematical Problem-Solving Skills through Bar Model Visualisation Technique. *International Electronic Journal of Mathematics Education*, 13(3), 273-279. <https://doi.org/10.12973/iejme/3919>. Index: ERA
48. **Kumar, J. A.***, Muniandy, B., & Wan Yahaya, W. A. J. (2016). Emotional Design in Multimedia: Does Gender and Academic Achievement Influence Learning Outcomes? *Malaysian Online Journal of Educational Technology*, 4(3): 37-50. Index: MyCite 2016
49. **Kumar, J. A.***, Muniandy, B., & Wan Yahaya, W. A. J. (2016). Emotional Design in Multimedia Learning: How Emotional Intelligence Moderates Learning Outcomes. *International Journal of Modern Education and Computer Science*, 8(5). <https://doi.org/10.5815/ijmecs.2016.05.07>. None Indexed
50. **Kumar, J. A.***, Muniandy, B., & Wan Yahaya, W. A. J. (2014). Exploring the perception and acceptance of information and communication technology (ICT) in the classroom for polytechnic students. *Journal of Teaching and Education*, 03(03):175-185. Index: ERA (201160)
51. **Kumar, J. A.*** & Muniandy, B. (2012). The Influence of Demographic Profiles on Emotional Intelligence: A Study on Polytechnic Lecturers in Malaysia. *International Online Journal of Educational Sciences*, 4(1), 62-70. Index: None Indexed
52. **Kumar, J. A.***, Muniandy, B., & Wan Yahaya, W. A. J. (2012). The Relationship between Emotional Intelligence and Students' Attitude towards Computers: A Study on Polytechnic Engineering Students. *International Journal of Modern Education and Computer Science*, 4(9), 14-22. <https://doi.org/10.5815/IJMECS.2012.09.02>. Index: None Indexed

MANUSCRIPTS UNDER REVIEW

1. Impact of Task-Based Flipped Learning on EFL Writing Skills and Engagement in Cambodian Secondary Education. *Journal of Second Language Writing*. Authors: Nhor SanHei, Jeya Amantha Kumar*, Manjeet Kaur Mehar Singh- [Review 1- complete] - WOS Q1, Scopus Q1
2. Mapping Explainable Artificial Intelligence Research in Information Systems: A Scopus Based Bibliometric Analysis, *Journal of Decision Systems*. Jeya Amantha Kumar, Jasbir Dhaliwal. Under review.
3. Mapping the Growth and Thematic Structure of U.S. AI Literacy Research (2021 to 2025): A Bibliometric Analysis, *Policy Futures in Education*. Jeya Amantha Kumar, Jasbir Dhaliwal. Awaiting reviewer selection

PEER-REVIEWED BOOK CHAPTERS

1. Ibrahim, N., **Kumar, J. A.**, Osman, S., Sehsu, J., & Wan Yahaya, W. A. J. (2024). Anthropomorphism in Multimedia Learning. In J. A. Kumar, N. Jamiat, & W. A. J. Wan Yahaya (Eds.), *Instructional Technology and Multimedia: Trends, Challenges and Opportunities* (pp. 95-102). USM Publication. Index: MAPIM
2. **Kumar, J. A.**, Min, N. L., Yie, D. L., Hisham, E. Z. B., Kiong, L. S., Qi, Y. J., Varaman, P., & Osman, S. (2024). Game-Comic Mobile Learning Application for Primary Students in Malaysia. In J. A. Kumar, N. Jamiat, & W. A. J. Wan Yahaya (Eds.), *Instructional Technology and Multimedia: Trends, Challenges and Opportunities* (pp. 111-119). USM Publication. Index: MAPIM
3. Adnan, N. A. S., Osman, S., & **Kumar, J. A.** (2024). Pencapaian Kemahiran Operasi Asas Matematik dan Motivasi Murid Tahun 1 Melalui Aplikasi Mudah Alik Photomath. In M. Sanmugam, S. N. Abd Rabu, & W. A. J. Wan Yahaya (Eds.), *Pengaplikasian Teknologi dalam Pengajaran & Pembelajaran*. Index: MAPIM
4. Masykuri, E. S., Nugraheni, I. I., & **Kumar, J. A.** (2022). Performing discourse students' skill by using video. In A. Rachmattie, I. J. Triwardhani, A. Alhamuddin, & C. U. Abdullah (Eds.), *Islam, Media and Education in the Digital Era*. Routledge. Index: [Not specified]

PEER-REVIEWED CONFERENCE PROCEEDINGS & POSTERS

1. **Kumar, J.A.**, (2025) The Global Landscape of Research on AI Literacy: a Bibliometric Analysis of Trends, Collaborations, and Emerging Themes. *IEEE 2025 Frontiers in Education Conference (FIE)*. Nashville. <https://doi.org/10.1109/FIE63693.2025.11328420>
2. **Kumar, J.A.*** (2025) AI on AI: Can GenAI Tools Design and Evaluate Course Outlines Better Than We Think? *MIT AI & Education Summit 2025*. <https://raise.mit.edu/wp-content/uploads/2025/08/AIMITR-Jeya-Amantha-Kumar.pdf>
3. Ganguly, R., Kumar, J.A., Kirby, C.K. (2025). Socio-Demographic and Academic Factors in Extension Policy Usage: A Mixed-Method Study in Computing Education. Accepted for presentation at the 30th Annual ACM Conference on Innovation and Technology in Computer Science Education (ITiCSE 2025) (Netherlands). <https://dl.acm.org/doi/10.1145/3724363.3729105>
4. Sun, H., Kumar, J. A., Van Hof, J., & Vandepol, N. (2025, May 8). Implementing Midsemester Feedback for Actionable Course Transformation (MidFACT). *MSU Spring Teaching and Learning Knowledge Sharing (TALKS)*, MSU. Knowledge Commons. <https://doi.org/10.17613/jxp5g-g2987>
5. Kumar, J. A., Sun, H., Van Hof, J., & Vandepol, N. (2025). Midsemester Feedback for Actionable Course Transformation (MidFACT) : An Evidence-Driven Approach to Enhancing Teaching and Learning. *MSU Spring Teaching and Learning Knowledge Sharing (TALKS)*, Online. Knowledge Commons. <https://doi.org/10.17613/n4gas-zat63>
6. Ganguly, R., **Kumar, J.A.**, (2025) Understanding Student Perceptions and Utilization of Assignment Deadline Extensions in Computer Engineering - *MSU SpringTalks 2025*
7. Kumar, J. A. (2025). Innovative Approaches to Teaching and Learning: AI, EdTech, and Evaluations @ Evidence-Driven Learning Innovation (EDLI), Michigan State University. OISS Scholar Showcase (9th Annual Scholar Showcase), MSU STEM Building, Room 2130. Knowledge Commons. <https://doi.org/10.17613/sgxmg-j1z16>

8. **Kumar, J.A.** & Silva, P.A. (2020). Work-in-Progress: A Preliminary Study on Students' Acceptance of Chatbots for Studio-Based Learning. 2020 IEEE Global Engineering Education Conference (EDUCON), 27–30 April 2020, Porto, Portugal. <https://doi.org/10.1109/EDUCON45650.2020.9125183> Index: **Scopus**
9. Rodzi, N.M., **Kumar, J. A.**, Osman, S., & Sunjayanto, S. (2019). Exploring Lecturers' Acceptance of Learning Management System in Malaysian Higher Educational Institution. The 2nd International Conference on Education (ICE 2019), 28 September 2019, Universitas Muhammadiyah Purworejo, Central Java, Indonesia. Index: None Indexed
10. **Kumar, J. A.**, Kumar, V.A., Sanmugam, M., & Osman, S. (2019). Mobile apps for learning: Exploring IT undergraduates' preference in Malaysia. 3rd Asia International Multidisciplinary Conference (AIMC 2019), 1-2 May 2019, Universiti Teknologi Malaysia, Johor, Malaysia. Index: None Indexed
11. **Kumar, J. A.** (2019). Exploring Engineering Undergraduates' Emotional Intelligence: A Gender Comparison Study. In Z. Bekirogullari, M. Y. Minas, & R. X. Thambusamy (Eds.), ICEEPSY 2018: Education and Educational Psychology, vol 53, European Proceedings of Social and Behavioural Sciences (pp. 198-210). <https://doi.org/10.15405/epsbs.2019.01.20>. Index: **WOS**
12. **Kumar, J. A.**, Rajamanickam, S., & Osman, S. (2018). Exploring the use of mobile apps for learning: A survey among final year engineering undergraduates in Malaysia. International Conference on Creativity, Innovation, and Invention in Digital Technology (CIIDT 2018), 11-13 December 2018, Universiti Sains Malaysia (USM), Pulau Pinang, Malaysia. Index: None Indexed
13. Norliza Mhd Rodzi & **Kumar, J. A.** (2018). Exploring Factors Influencing Wawasan Open University Lecturers' Use Of LMS. International Conference on Creativity, Innovation, and Invention in Digital Technology (CIIDT 2018), 11-13 December 2018, Universiti Sains Malaysia (USM), Pulau Pinang, Malaysia. Index: None Indexed
14. **Kumar, J. A.**, Muniandy, B., Wan Ahmad Jaafar, W. Y., & Cowen, B. (2016). Emotional design in multimedia learning: The relationship between emotional intelligence and learner satisfaction. Proceedings of the 2nd International HCI and UX Conference in Indonesia (CHlUXiD 2016), 13-15 April 2016, Jakarta, Indonesia. Index: None Indexed
15. **Kumar, J. A.**, Muniandy, B., & Wan Ahmad Jaafar, W. Y. (2014). The emotional effect of multimedia induced emotions on e-learning among polytechnic students. Conference Proceedings, International Conference on Emerging Trends in Academic Research, 25-26 November 2014, Bali, Indonesia. Index: None Indexed
16. **Kumar, J. A.**, Muniandy, B., & Wan Ahmad Jaafar, W. Y. (2014). Exploring the perception and acceptance of information and communication technology (ICT) in the classroom for polytechnic students. International Journal of Arts and Sciences' (IJAS) International Conference for Academic Disciplines, 28-31 October 2014, Rome, Italy. Index: None Indexed
17. **Kumar, J.A.** (2011). Emotional Intelligence: Why it matters to every profession. Kolokium Pendidikan dan Teknikal Politeknik Tuanku Sultanah Bahiyah 2011, Kedah, Malaysia. Index: None Indexed
18. **Kumar, J.A.** (2010). Lecturers' Perception towards Research in Profession: A Case Study among Lecturers from the Electrical Engineering Department, Polytechnic Tuanku Sultanah Bahiyah, Kulim Kedah. Kolokium Politeknik Tuanku Sultanah Bahiyah Siri 1/2010, Kedah, Malaysia. Index: None Indexed
19. **Kumar, J. A.**, Muniandy, B., & Wan Ahmad Jaafar, W. Y. & Cowen, B (2016). Emotional design in multimedia learning: The relationship between emotional intelligence and learner satisfaction. Proceedings of the 2nd International HCI and UX Conference in Indonesia (CHlUXiD 2016), April 13-15, 2016. Jakarta, Indonesia. – POSTER

BOOKS, REPORTS & THESES

Year	Publication details	Type
2024	Instructional Technology and Multimedia: Trends, Challenges and Opportunities. Jeya Amantha Kumar , Nurullizam Jamiat & Wan Ahmad Jaafar Wan Yahaya, USM Publication. ISBN :978-967-461-823-0	Book
2022	Handbook of Research on Distance Education in Ghana Vol 1. Balakrishnan Muniandy, Godwin Awabil, Rubai Mandela, Robert Lawrance Afutu Kotey, Jeya Amantha Kumar , Jafred Muyaka. Sub-Saharan Publishers ISBN :978-9988-9171-6-6	Book
2021	Extended Abstract E-Book: International Conference on Creativity and Innovation in Instructional Digital Technology (CIIDT 2021). E-ISBN 978-967-2619-70-3	Abstract E-book
2020	USM Online Assessment Guidelines for Remote Teaching. https://doi.org/10.13140/RG.2.2.15517.26081	Guideline/ Technical Report
2016	Effects of Multimedia Induced Emotions on Achievement, Intrinsic Motivation and Satisfaction among Polytechnic Students with Different Levels of Emotional Intelligence. PhD Dissertation; Universiti Sains Malaysia, Pulau Pinang, Malaysia http://eprints.usm.my/id/eprint/59444	PhD Dissertation
2002	Graduates' perception towards their English education: a case study. Master's Thesis. Universiti Tun Hussein Onn. http://eprints.uthm.edu.my/8188/	Master's Thesis
2001	The Development of Codelink and Code Interface Node in Graphical Programming. Bachelor Thesis; Universiti Teknologi Malaysia, Johor, Malaysia	Bachelor Thesis

Chief Editor

- Extended Abstract E-Book: International Conference on Creativity and Innovation in Instructional Digital Technology (CIIDT 2021). E-ISBN 978-967-2619-70-3 (Malaysia)

- Book: Instructional Technology and Multimedia: Trends, Challenges and Opportunities USM Publication- Malaysian Scholarly Publication Council (MAPIM) (2024) (Malaysia)

Editor

- BOOK: Handbook of Research on Distance Education in Ghana (Publication 2022) - Ghana
- Special Issue Journal of Creative Practices in Language Teaching and Learning (CPLT), Universiti Teknologi MARA (UiTM) Kedah (Published August 2023) – Malaysia

GRANTS & SPONSORED RESEARCH

2026

Explanation Driven Learning for GenAI: Mode Effects, Mechanisms, and Event Triggered Prompt Switching. NSF Science of Learning and Augmented Intelligence. Submitted, Proposal ID 2618119. PI: Jeya Amantha Kumar. Co-PI: Jasbir Dhaliwal. Funding requested: \$677,857.

Generative AI in Global Higher Education: Regional Variations in Educators' Practices, Equity Challenges, and Pedagogical Innovation. Spencer 2026 Large Grants. Proposal submitted, ID 10077427. PI: Jeya Amantha Kumar. Co-PI: Jasbir Dhaliwal. Funding requested: \$374,762. Results expected in mid-May.

2026–2030 (Not Awarded)

Kirby, C (PI) & and others. **Kumar, J.A. (Key personal - Researcher),**

Funding: Institute of Educational Sciences (IES)

Title: Gateway: Generative AI for Teaching in Higher Education Research in Gateway

Budget: ~\$10 Million

2025-2026

Kumar, J.A. (PI), Kirby, C (Co-PI)

Funding: Spencer Foundation (rejected)

Title: Social Moderators in Robotics Learning Among Tamil Primary School Students in Malaysia: The Influence of Parents, Teachers, Peers, and Gender

Budget: \$50,000

2024-2025

Mi Ran Kim (PI) & Hala Sun, **Kumar, J.A. - completed**

Funding: Center for Ethical and Socially Responsible Leadership - PI (awarded, 2024)

Title: AI ethics and self-regulated learning (SRL) training module for business students

2020–2024

Kumar, J.A. (PI), Osman, S (Co-PI), Shanmugam, M (Co-PI), Abd Rabu, SN (Co-PI)

Funding: Ministry of Education, Malaysia (80% Completed and Transferred)

Title: Analyzing the Effects of Anthropomorphism for Emotional Design in Multimedia Learning Using Emotional Recognition Systems

Budget: \$30,000

2022–2025

Kumar, J.A. (Co-PI), Osman, S (PI),

Funding: Ministry of Education, Malaysia

Title: A Model for Developing Students' Interest and Self-Efficacy in STEM through Geometry Learning Based on Augmented Reality Technology (*Model Pembentukan Minat dan Efikasi Kendiri Pelajar dalam STEM menerusi Pembelajaran Geometri Berasaskan Teknologi Augmentasi Realiti*)

Budget: \$28,000

2023

Kumar, J.A. (PI), SanHei Nhor (co-PI),

Funding: Association for Asian Studies [Applied – Rejected]

Title: Digital inclusion and access to learning technology: A Gender perspective study from Cambodian High School towards quality education

Budget: \$7,500

2019–2021

Kumar, J.A. (Co-PI), Osman, S (PI),

Funding: Universiti Teknologi Malaysia Research Grant [completed]

Title: Mastery of High-Level Thinking Skills in Mathematics through Cooperative Learning Strategies Think-Talk-Write

Budget: \$24,000

2020–2023**Kumar, J.A. (Co-PI)**, Shanmugam, S (PI), Wan Yahaya, W.A.J (Co-PI)**Funding:** Universiti Sains Malaysia (USM) Short Term Grant [completed]**Title:** Redesigning Player Traits in a Gamified Learning Environment Using Minimax and Maximin Principle**Budget:** \$15,600**2020–2023****Kumar, J.A. (Co-PI)**, Shanmugam, S (PI), Wan Yahaya, W.A.J (Co-PI)**Funding:** Universiti Sains Malaysia (USM) Short Term Grant [completed]**Title:** Gamifying a Higher Education Blended Learning Course: A Design Guideline for Promoting Students' Motivation, Engagement, Enjoyment, and Learning Achievement**Budget:** \$5,200**2017 – 2018****Kumar, J.A. (Co-PI)**, Chau K.T (PI), Tan, Y.Y(Co-PI)**Funding:** USM Internal grant BJIM Grant [completed]**Title:** Expression of Digital Graphic Arts through the Community Web among the Disabled**Budget:** \$1,000**2019–2022****Kumar, J.A. (PI)**, Shanmugam, S (co-PI), Silva, P(co-PI), Bervell, B(Co-PI)**Funding:** Universiti Sains Malaysia (USM) Short Term Grant [completed]**Title:** Facilitating the Use of Mobile-Based Communications for Studio-Based Learning in Higher Learning Institutions**Budget:** \$6,000**SELECTED EDUCATIONAL RESEARCH PROJECTS****Michigan State University****AI for Course Development: ChatGPT 4.0 for CISGS Course Development****2024**

Collaborated with Assoc Prof Dr. Stephen Thomas, Assistant Dean for STEM Education Teaching and Learning at Michigan State University, to leverage ChatGPT 4.0 for developing and redeveloping a CISGS course. Designed and implemented a SWOT survey to evaluate the effectiveness of AI in course development, created comprehensive course notes, and analyzed the findings. Served as the lead author on a peer-reviewed publication based on this project in Natural Science Education (2024).

*Status: Completed***Playposit and H5P Software Evaluation****2024**

Collaborated with Dr. Hala Sun, Associate Director of Assessment & Evaluation at EDLI, to evaluate Playposit and H5P software for instructional use. Developed survey questions for instructors and faculty, gathered feedback, and delivered a detailed comparative analysis to the Instructional Technology department at Michigan State University.

*Status: Completed***Humanities Commons and ORCID Integration Project****2024–Present**

Working with Dr. Scott Schopieray, Assistant Dean for Academic and Research Technology at Michigan State University, to integrate Humanities Commons and ORCID systems, enhancing digital academic collaboration and profile management.

*Status: Ongoing***Mentor for College of Online Learning Academy (COLA), MSU****2024**

Served as a mentor for COLA fellows under the guidance of Dr. Caitlin Kirby, Associate Director of Research at EDLI. Conducted weekly meetings to provide guidance, reviewed progress, and evaluated deliverables to ensure alignment with program goals and educational outcomes.

*Status: Completed***Packback Evaluation****2024–Present**

Designed and developed pre- and post-surveys for both students and instructors under the supervision of Dr. Hala Sun, Associate Director of Assessment & Evaluation at EDLI. The surveys aim to evaluate the effectiveness of Packback Deep Dive, focusing on engagement, usability, and learning outcomes.

*Status: Ongoing***Mid-Semester Evaluation****2024**

Collaborated with Dr. Hala Sun, Associate Director of Assessment & Evaluation at EDLI, and Dr. Jeremy Van Hof, Director at the Center for Teaching and Learning Innovation (CTLI) at Michigan State University. Designed and developed a new report format, including an executive summary and a detailed summary for each class, to enhance the usability of evaluation findings.

Additionally, designed and developed survey questions for post-evaluation feedback as part of the mid-semester evaluation process.

*Status: Completed***Assignment Deadline Policy – Computer Engineering****2024–Present**

Serving as a Principal Investigator (PI) alongside Dr. Caitlin Kirby (EDLI) and Dr. Ritam Ganguly (Engineering). The project explores how assignment deadline policies can foster an inclusive learning environment. Designed and developed survey

instruments for Phase 1, including exploratory pre- and post-surveys. Phase 1 outcomes include a conference paper and a peer-reviewed publication currently in process.

Status: Ongoing

AI Ethics and Self-Regulated Learning (SRL) Training for Business Students.

2025–Present

Serving as Training Module Developer on a project led by Assoc Prof Dr. Mi Ran Kim (PI) and Dr. Hala Sun (Co-PI), funded by the Curricular Mini Grant, Center for Ethical & Socially Responsible Leadership, Michigan State University. The project focuses on equipping business students with essential skills in AI ethics and fostering self-regulated learning practices to navigate ethical challenges in AI-driven business environments. Responsibilities include designing and developing comprehensive training modules tailored to enhance students' understanding of AI ethics and SRL strategies.

Status: Completed

Universiti Sains Malaysia

Fundamentals of Instructional Design (Dick & Carey Model)– Open Learning.com. (MOOC).

2019–2023

This course aims to equip learners with the fundamental skills needed to design impactful multimedia instructional materials. Using the instructional model developed by Dick & Carey (2007), participants will explore and apply the 10 essential steps of this model. In addition to Dick & Carey's model, the course introduces learners to foundational instructional design concepts, such as Gagne's 9 Events of Instruction, learning theories, and visual communication techniques. It was free to enroll and had 62 participants successfully completed the course.

MOOC Link: <https://www.openlearning.com/courses/fundamentals-of-instructional-design-dick-carey-model->

MICRO-CREDENTIAL DEVELOPMENT

Instructional Design - Open Learning.com (10 Micro-Credential Modules)

2020–2023

Developed and launched a comprehensive series of 10 micro-credential modules on instructional design, hosted on Open Learning.com. This program provides educators and instructional designers with a step-by-step approach to mastering the principles and processes of instructional design. The modules are designed to cater to diverse learning needs, covering foundational and advanced concepts.

Module Highlights

1. Introduction to Instructional Design: Overview of key concepts and importance in educational settings.
2. Instructional Design Models: Exploration of popular models, including ADDIE and Dick & Carey.
3. Needs Assessment: Methods to identify learner needs and align goals.
4. Instructional Analysis: Techniques for task and content analysis.
5. Entry Behaviour in Instructional Design: Understanding learner readiness and prerequisites.
6. Performance Objectives in Instructional Design: Setting measurable learning outcomes.
7. Criterion-Referenced Test in Instructional Design: Designing assessments aligned with objectives.
8. Instructional Strategy: Crafting effective teaching and delivery strategies.
9. Evaluation in Instructional Design: Evaluating the effectiveness of instructional materials and processes.
10. ID Project: Applying concepts through a practical, hands-on instructional design project.

International Reach

The modules have been successfully adopted and implemented internationally, including at Rajamangala University of Technology Srivijaya, Trang Campus, Thailand, where they are used to enhance instructional practices for educators.

Local Reach

Over 300 participants have engaged with the modules, gaining valuable skills to improve their teaching and instructional design strategies.

Program Link: <https://learning4life.usm.my/qualifications/idtesol/>

This series empowers participants to implement instructional design strategies effectively, enhancing teaching and learning outcomes across various educational contexts globally.

Basics to Figma - Open Learning.com (micro-credentials)

<https://learning4life.usm.my/courses/basics-of-figma>

The Basics to Figma micro-credential course on Open Learning.com is designed to introduce participants to the fundamentals of Figma, a powerful collaborative design tool. This self-paced course equips learners with essential skills for UI/UX design, covering Figma's interface, tools, and features while teaching best practices for creating prototypes, wireframes, and responsive designs. Through hands-on exercises and real-world scenarios, participants gain practical expertise in crafting user-friendly and visually appealing interfaces. Ideal for aspiring designers, professionals enhancing their skills, and educators integrating design tools into their work, this course provides a strong foundation in Figma, making learners competitive in today's design landscape.

Training Module Development

AI Ethics for Self-Regulated Learning. Developed using Adobe Captivate for the Broad Business School of MSU. <https://ethicstraining.commonmsu.edu/students-ethics-module/>

SELECTED ACADEMIC & COMMUNITY PROJECTS

E-Book For Charity: Undergraduates Indie Initiatives 2021 [2 STAR - University Sains Malaysia -USM] – PI

Project earned a prestigious 2-STAR recognition for its impactful integration of education and social responsibility. This project engaged undergraduate students in designing and developing visually appealing e-books for children, inspired by comic book formats, to simplify and promote understanding of the United Nations' Sustainable Development Goals (SDGs). Students gained hands-on experience in digital literacy and multimedia storytelling, while fostering collaboration and creativity. The e-books were sold on the institute's Indie website, with all profits donated to a local charity, demonstrating the power of education to drive social change and instill community values. This initiative not only enhanced student learning but also raised awareness of SDGs among children while contributing to meaningful charitable efforts

Expression of Digital Graphic Arts through the Community Web among the Disabled 2018 - University Sains Malaysia [Co-PI]

The Project aimed to empower individuals with disabilities by providing a platform to showcase their creativity through digital graphic arts. This initiative fostered inclusivity and self-expression by enabling participants to design and share their artwork on a dedicated community web platform. The project not only enhanced digital literacy and artistic skills among the disabled but also encouraged social engagement and visibility for their talents. By bridging technology and creativity, the initiative highlighted the transformative role of digital platforms in creating opportunities for marginalized communities.

TEACHING EXPERIENCE

Centre for Instructional Technology and Multimedia, Universiti Sains Malaysia

Undergraduate Courses: Instructional Technology Practices, Instructional Design (B.Ed.)

Postgraduate Courses: Human-Computer Interaction, Visual Communication, Research Project, (M.A. in Instructional Multimedia).

Asia E-University, Seberang Jaya, Malaysia

Postgraduate Courses: Fundamentals of Instructional Technology, Web-Based Learning

Polytechnic Tun Syed Nasir Syed Ismail, Pagoh, Johor, Malaysia

Undergraduate Courses: Process Control & Instrumentation, Electrical Technology, AutoCAD, Entrepreneurship, Research Project

Open University Malaysia, Executive Degree Programme

Undergraduate Courses: Integrated Circuit Design

Polytechnic Tuanku Sultanah Bahiyah, Kedah, Malaysia

Undergraduate Courses: Instrumentation, Interactive Multimedia Application, IC Fabrication and Packaging Technology, Integrated Circuit Design, Electrical Technology
Database Systems, Soft Skills, Research Project

Career Development Programs (Part-Time): Instrumentation, Integrated Circuit Design

Polytechnic Ungku Omar, Perak, Malaysia

Undergraduate Courses: Engineering Mathematics, Database Systems, Computer Architecture and Organization, Microprocessor Systems

STUDENT SUPERVISION

Universiti Sains Malaysia

Doctoral Degree Advisor- PhD Supervision (Main)

1. Isyati binti Suparman. Doctor of Philosophy, Research – Investigating Factors Determining the Behavioural Intention of Using Online Learning during Emergency Remote Teaching (ERT) for Learning the English Language – **PhD completed March 2023**
2. Nhor Sanhei. Teaching Narrative Essay Writing using Task Based Flipped Classroom to Investigate Students' Perceived Engagement and Learning Performance Among Cambodian High School Students – **PhD completed June 2023**
3. Hilal Salim Marhoon Al-mamari, 2019, Doctor of Philosophy, Research - Full Time, The Readiness of Faculty Members to Adopt MOOCs for Teaching and Learning in Oman. **PhD completed August 2023**
4. Parameshvaran A/L Varaman, 2020, Doctor of Philosophy, Research - Full Time, Robotics in Elementary Education: Investigating Interest, Motivation, Self-Efficacy and Confidence of Students Towards Stem. – **PhD completed July 2024**
5. Jayson Sehsu , **2021 - 2023**, Doctor of Philosophy, Research - Full Time, Analysing the Effects of Animated Anthropomorphism for Emotional Design in Multimedia Learning Using Emotional Recognition Systems.
6. Suzana Binti Ahmad, **2022-2023**, Doctor of Philosophy, Research - Full Time, The Use of English Vocabulary Profile in Enhancing Lexical Richness in Malaysian Polytechnics.

7. Du Shaoxu, **2020-2023**, Doctor of Philosophy, Research - Full Time. The Effect of Educational Apps Interface Design Based on Visual Aesthetic and Emotional Experience on User's Satisfaction and Intention to Use.

Co Supervisor/ Advisor

1. Syaryfah Fazidawaty Binti Wan Busrah, 2021-2023, Doctor of Philosophy, Research - Full Time, Utilizing social media in Teaching and Learning to Enhance Graduate Employability Among Animation Students, Co-supervisor
2. Fauziyah Binti Md Aris, 2021-2023, Doctor of Philosophy, Research - Full Time, Design of Mobile Learning Experience for Adult Student Engagement, Co-supervisor
3. Tian Feng, 2022-2023, Doctor of Philosophy, Research - Full Time, The Feasibility Study on the Teaching of Foreign Language for Special Purpose by Game-based Learning with Support of Multimedia, Co-supervisor

Masters - Graduated

1. Huang Jiaji, 2023 Master (Dissertation - Course Work), The Behavioral Intention to Use Personal Smart Mobile Devices for Outdoor Education
2. Yu Chenmei, 2022 Master (Dissertation - Course Work), Investigating the differences between teachers' generation cohorts towards digital learning Identity: the case middle schools of China
3. Mariam Osama Ahmed Abdelkader, 2022, Master (Dissertation - Course Work), Pre-service teachers perceived digital confidence in collaboration, creativity, and challenges in designing and developing an e-book.
4. Rachel Jasmine Richard, 2021, Master (Dissertation - Course Work), Micro-Credentials during the Covid-19 pandemic. Novice users' experiences in Malaysian Higher Education
5. Norsyarizaini Bt Abdul Mutalib, 2020, Master (Dissertation - Course Work), Investigating the Perception of Interactive Game-Comics Mobile App for Primary Education in Malaysia
6. Noorasyikin Binti Ibrahim, 2019, Master (Dissertation - Course Work), The effect of Anthropomorphism: An Emotional Design Study
7. Ahnaf Hakimi Bin Ahmad, 2018, Master (Dissertation - Course Work), 3D printing of architecture miniature model: a case study of acceptance in architecture student
8. Norliza Binti Mhd Rodzi, 2018, Master (Dissertation - Course Work), exploring factors influencing Wawasan Open University lecturers' use of LMS: an empirical study based on TAM

Doctoral Degree Committee Member (Universiti Sains Malaysia)

- 2023 - Syamsol Azhar Zulkafli
- 2023 - Wang Hanxu
- 2023 - Chen Chuang
- 2023 - Zheng Zheng
- 2023 - Wu Ling
- 2023 - Nur Effatul Fairuz Zainal Apandi
- 2023 - Rosliza Abdul Hamid
- 2022 - Azrina P. Jamal Mydin
- 2022 - Zuheir Najee Ghannam Khlaif
- 2021- Mariani Mohd Dahlan
- 2021 - Alrakas Ghazi Bandr G
- 2021 - Alomari Islam Abdelgader
- 2020 - Hanan Ahmad Aldowah
- 2020- Marnisya Bt Abdul Rahim
- 2020- Ali Siddig Ali

Master by Research Committee Member (Universiti Sains Malaysia)

- 2023 Mohd Hafiz Shafiq bin Zulkifli.
- 2022 Darren Lim Yie

ACADEMIC SERVICE & PROFESSIONAL ACTIVITIES

EXPERT PANEL and ASSESSOR

- Augmented Reality Design Framework in Immersive Learning Experience (RRLuPPI) for Education 4.0, Fundamental Research Grant, Ministry of Education Malaysia
- Judge for BORNEO INNOVATION FESTIVAL (BIF) 2021
- USM MOOC Challenge – 2020 and 2021
- Centre for Instructional Technology and Multimedia – Internal Examiner for Master of Arts
- Promotion Assessor for Senior Lecturer - College of Distance Education, University of Cape Coast 2023
- e-DigCompEdu: a Digital Competence for Online Higher Education Framework. Institute of Education, University of Lisbon, Portugal 2023
- Global University Graduate Attributes (2022-2023), Faculty of Hospitality and Tourism Management at Macau University of Science and Technology
- Sustainable Online Learning Framework for Higher Education Institution (2023), Universiti Pertahanan Nasional Malaysia (UPNM), Malaysia

- Survey On Current Practice of Teaching and Learning Design and Strategies In Institution of Higher Learning (IHL) (2023). Universiti Utara Malaysia
- Factors of Malaysian Secondary School Teachers' Actual Use for Asynchronous and Synchronous Online Teaching during Sudden School Closure: A model by unifying Technology Acceptance Model (TAM) and Diffusion of Innovation (DOI). (2021) Universiti Sains Malaysia
- Developing and validating a survey of organisational readiness for micro-credential implementation with public higher education institutions in New Zealand (2022). Higher Education Development Centre, University of Otago
- The Development and Validation of an Integrative Microlearning Framework for Micro-Credentials in Malaysian Higher Education. (2023) Universiti Teknologi MARA (UiTM).

Ad Hoc Journal and Conference Reviewer

- Interactive Learning Environments Dec 2024
- Educational Psychology, Sep 2024
- Discover Education, Jul 2024
- Scientific Reports, Jul 2024
- The Tuning Journal for Higher Education (TJHE) – 2023- 2024
- International Symposium on Sustainable Engineering Education & Accreditation (IS2E2A 2024)
- Discover Artificial Intelligence, Apr 2024
- New Review of Hypermedia and Multimedia, Sep 2023
- Cogent Education, Jul 2023
- International Journal of Cognitive Research in Science, Engineering and Education (IJCRSEE), Jul 2023
- International Journal of Human-Computer Interaction, Jul 2023
- Open Learning: The Journal of Open, Distance and e-Learning, Apr 2023
- International Journal of Educational Technology in Higher Education, Mar 2022
- International Journal of Educational Technology in Higher Education, Sep 2021
- IEEE EDUCON conferences for 2021 and 2020
- IEEE Access, Mar 2021
- Journal of Engineering Science & Technology 2021
- IEEE Access, Oct 2020
- Computer Applications in Engineering Education, Feb 2020
- International Conference on Education 2019 – (ICEDU 2019)
- Asia-Pacific Education Researcher, Jun 2017

Conference Committee

- ISSIT2023 (International Student Symposium of Instructional Technology 2023).
- 2nd International Conference on Creativity and Innovation in Instructional Digital Technology (CIIDT 2021)
- International Conference on E-Society, E-Education and E-Technology (ICSET 2020)
- IEEE EDUCON conferences for 2021 and 2020
- ICEEPSY International Advisory and Organizational Board
- National Digital Technology and Education Conference 2022 (NaDiTEC'22) – 30TH March 2022

External Committee

- International Advisory and Organisation Board - International Conference on Education & Educational Psychology (ICEEPY)
- New Affiliate Faculty: Center for Interdisciplinary Research, Collaboration, Learning, and Engagement (CIRCLE). 2025
- External Academics - AI in Education at Oxford University (AIEOU). Oxford, United Kingdom (2024)
- PhD Thesis Defence: Invited to serve as a panellist for PhD thesis defence at Universitat Oberta de Catalunya (UOC), Spain (May 2025).

Institutions Contribution - Universiti Sains Malaysia

- MOOC and Micro-credential Coordinator. Centre for Instructional Technology and Multimedia, University Sains Malaysia (2021-2024)
- Student academic counsellor - Centre for Instructional Technology and Multimedia (2019 – 2023), University Sains Malaysia
- University level committee for USM Covid Emergency Response Team (ERT) 2020, University Sains Malaysia
- Industrial Panel – Diploma in Graphic Design, Department of Design and Visual Communication - 1 Mac 2018
- Head for Publicity, web, and social media - Conference on Creativity, Innovation, and Invention in Digital Technology (CIIDT 2018) - 19/06/2018-14/12/2018 (University) University Sains Malaysia
- Session Chair – Conference on Creativity, Innovation, and Invention in Digital Technology (CIIDT 2018), University Sains Malaysia
- Coordinator for Training, Teaching & Learning – 1 July 2019 – 31 December 2020, University Sains Malaysia
- Chairperson for parallel sessions – 13th International Malaysian Educational Technology Convention (IMETC 2019) – 22 Ogos 2019, University Sains Malaysia
- Publication Committee – 13th International Malaysian Educational Technology Convention (IMETC 2019) – 29 April 2019, University Sains Malaysia
- Committee 18 one initiatives USM 2019-2021 – ITEM 6 – MOOC development, University Sains Malaysia

- Academic Council PTPM – 11/11/2019 – 31/12/2021, University Sains Malaysia
- Committee, Micro-credential@usm Module Quality Control Committee, 10/03/2021-31/12/2023 (University Sains Malaysia).
- Research Committee - The Centre for Educational Technology and Multimedia (CITM)
- Academic Management Committee (CITM)
- Curriculum Development-Master in Learning Design & Technology
- Curriculum Development-Master in TVET – Instructional Design
- Micro-Credential@PTPM Implementation Committee
- Co-coordinator Micro-credential@USM, 19/10/2020-31/12/2022 (University Sains Malaysia)

Institutions Contribution – Polytechnic Institutions

- Module development for ICT course - Database systems (Penang) -2003
- Digital Laboratory Coordinator – managing, coding, documenting items and ensuring the contract and supply has been fulfilled. – 2004- 2005
- Module and curriculum development for Computer Architecture and Microprocessor 2004- 2005
- Department Coordinator for Final Year IT Students Project (Diploma & Certificate) 2004- 2006
- Head Coordinator for timetabling unit department level and time tabling for join classes for all departments in the institute. 2006- 2007
- Electronic Digital Component (EDC) Laboratory Coordinator - managing, coding, documenting items and ensuring the contract and supply has been fulfilled. 2007
- Head Coordinator for timetabling unit department level 2008-2007
- Head Coordinator for Industrial Training and Liaison unit (department level) – ensuring students in the department are placed for their training and all department level documentation and evaluation is as schedule. It also requires supervisory of other team members.2009-2011
- Industrial Training and Liaison officer (Institution Level) – In charge of managing all department co-ordinators, student placement and liaising with industries. Developed online system for student placement and a standardised e-form for the application and documentation related to the unit. 2011-2013
- Head co-ordinator for student and module/course registration (department level) -2013
- Head of E-learning Unit (Politeknik Pagoh) 2016-2017
- Head of Instructional Development and Multimedia Unit (Politeknik Pagoh) 2016- 2017
- Quality Auditor, Malaysia Quality Accreditation auditor 2016-2017
- Diploma in Petrochemical Engineering (Curriculum developer) 2016-2017
- Jan 2003 – July 2013 – Student academic counsellor for various stages or semesters. The task required counselling and academic supervision.

Invited Guest Speaker

- “Acing your Chapter One” 18/8/2023. Centre for Instructional Technology and Multimedia, University Sains Malaysia
- Educational Chatbots for Project Based Learning [Online], The School of Information Management, Victoria University of Wellington, New Zealand, 18th March 2022
- Tips and tricks for writing a research paper for an Impact Factor and Scopus indexed journal, School of Education, Universiti Teknologi Malaysia, 21st April 2022
- Emotional Design in Multimedia: How does Emotional Intelligence influence learning outcomes? A Perspective Based on Engineering Students in a Malaysian Polytechnic, School of Information & Library Studies, University College of Dublin, 3rd September 2015
- Emotional Design in Multimedia: How does Emotional Intelligence influence learning outcomes? A Perspective Based on Engineering Students in a Malaysian Polytechnic, Department of Information Technology, Limerick Institute of Technology, Moylish Campus, Limerick, Ireland, 29th September 2015

PROFESSIONAL DEVELOPMENT & CERTIFICATIONS

- Professional Certificate – Foundations of AI (IBM-EdX)
- Google AI Essentials – Coursera
- Python Programming: Basic Skills (Codio – EdX)
- AI Skills 4 Women (Microsoft + Founderz), Founderz Business School 2025
- Foundations of Academic Journal Editing, Open Access Publishing Association (OAPA) -Issued Feb 2025 · Expires Feb 2030 –
- Basic use of Google Workspace for Education Fundamentals (2024) – ID: 349999896
- Google Generative AI for Educators Certificate (2024) ID : 357960207
- Prompt Engineering for Everyone. IBM Developer Skills Network. Cert ID 6807724b6f9c4561b89f70974ce47cb7 - 1 Oct 2023
- City Life: Introduction to the Architecture, Art, Design and Culture of Dublin City (July 2015), National College of Art and Design, Dublin, Ireland.
- Specialized Training Programme in Web and Multimedia, Centre of Development and Advance Computing (CDAC), Mohali, Punjab, India (March – Jun 2017).
- Human Computer Interaction, Interaction Design Foundation Cert ID 4468-2020-308939

- User Experience: The Beginner's Guide, Interaction Design Foundation Cert ID 4468-2020-430409
- User Research – Methods and Best Practice, Interaction Design Foundation Cert ID 4468-2020-338698
- Certified Content Creator. MYDigitalEducator @MOHE. Ministry of Higher Education, Malaysia 2022

PROFESSIONAL MEMBERSHIPS

- Michigan Association for Computer Users in Learning (MACUL): ID 22210
- Malaysia Board of Technologists (MBOT) — Professional Technologist, 2021–2025
- Malaysia Board of Technologists (MBOT) – Graduate Technologist (Lifetime)
- Institute of Electrical and Electronics Engineers (IEEE) — Member, 2018
- IEEE Women in Engineering — Member, 2018
- Interaction Design Foundation — Professional Member, 2019–2022
- International Association of Online Engineering — Member, 2021–Present

AWARDS

- Silicons to IC, NCERIC 2021 — Gold Award, Ministry of Education Malaysia (National)
- Emotional Design and Development for Interactive Multimedia Aesthetics (EDDIMA) — Bronze Award, International Innovation ARSVOT Malaysia (IAM 2021)
- MYLANGUAGES: A Mobile-Assisted Language Learning Application — Bronze Award, International Innovation ARSVOT Malaysia (IAM 2021)
- Excellence Service Award — Universiti Sains Malaysia (APC 2019)
- Excellence Service Award — Ministry of Higher Education Malaysia (APC 2010)
- Best Presenter — International Conference on Emerging Trends in Academic Research, Bali, Indonesia (November 25–26, 2014)
- Universiti Sains Malaysia Hadiah Sanjungan 2020 — Merit Award, Publication Category
- Universiti Sains Malaysia Sangar Sanjung 2021 — Publication Excellence Award (3 awards)
- Silver Medal — Instructional Design Micro-Credential, Innovation of Teaching and Learning Materials Category, INTELEC 2023
- Universiti Sains Malaysia Sangar Sanjung 2022 — Publication Excellence Awards (2) and Merit Awards (2)
- Universiti Sains Malaysia Sangar Sanjung 2023 — Research Achievement

ADDITIONAL INFORMATION

Languages	English and Malay (excellent written and oral communication); Tamil (oral communication); basic Spanish.
Technical & Research Tools	Microsoft Office (Word, PowerPoint, Excel); Articulate Storyline; SPSS; Moodle; NVivo; PLS-SEM; JASP; text analysis; iMotions facial-expression and gaze analysis; TextIt chatbot development.
Academic Communication	Strong academic writing, presentation, teaching, research collaboration, and cross-cultural communication skills.

RESEARCH PROFILES

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