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Academic Employments

2026 – .... **Prof. Dr.**, Department of Computer Engineering, Faculty of Engineering, Bursa Uludag University, Bursa, Turkiye.

2023 – 2025 **Prof. Dr.**, Department of Software Engineering, Faculty of Engineering and Natural Sciences, Bandirma Onyedi Eylul University, Balikesir, Turkiye.

2017 – 2023 **Assoc. Prof. Dr.**, Department of Computer Education and Instructional Technology, Faculty of Education, Tokat Gaziosmanpasa University, Tokat, Turkiye.

2014 – 2017 **Assist. Prof. Dr.**, Department of Computer Education and Instructional Technology, Faculty of Education, Tokat Gaziosmanpasa University, Tokat, Turkiye.

2012 – 2013 **Visiting Scholar**, Ted Rogers School of Information Technology Management, Ryerson University, Toronto, ON, Canada.

2005 – 2013 **Research Assistant**, Department of Information Systems, Middle East Technical University, Ankara, Turkiye.

Education

2009 – 2013 **Ph.D., Middle East Technical University**, Information Systems.
Dissertation title: *Organizational Adoption of Mobile Communication Technologies.* (GPA: 3.83/4)

2006 – 2009 **M.Sc., Middle East Technical University**, Information Systems.
Thesis title: *Technological Innovation Model for Public Sector*. (GPA: 3.44/4)

2002 – 2005 **B.Sc., Anadolu University**, Computer Education and Instructional Technology.
Distinguished Graduate; Ranked First. (GPA: 3.45/4)

Administrative Appointments

2023 – 2025 **Department Chair**, Department of Software Engineering, Faculty of Engineering and Natural Sciences, Bandirma Onyedi Eylul University.

Faculty Management Board Member, Faculty of Engineering and Natural Sciences, Bandirma Onyedi Eylul University.

2017 – 2020 **Member**, Educational Technology Commission, Tokat Gaziosmanpasa University.

2016 – 2019 **Department Chair**, Department of Computer Education and Instructional Technology, Faculty of Education, Tokat Gaziosmanpasa University.

Faculty Board Member, Faculty of Education, Tokat Gaziosmanpasa University.

2014 – 2020 **Director**, Distance Education Application and Research Center, Tokat Gaziosmanpasa University.

Visiting Appointments and Awards

2025 — **The World's Top 2% of Scientists**, Stanford University (Ranked #1 in Türkiye in Information Systems, Ranked #43 in Türkiye across all disciplines).

— **Best Paper Award**, International Conference on Digital Work and Well-being (INTWELL 2025), Taylor's University, Malaysia.

2024 — **Excellence in Academic Publishing Award.**

— **Highly Ranked Scholar - Prior Five Years**, ScholarGPS® ID: 38957409779541.

— **The World's Top 2% of Scientists**, Stanford University.

2024 – 2026 — **Adjunct Professor**, Department of Computer Science and Engineering, College of Informatics, Korea University, Seoul 02841, Republic of Korea.

2023 — **Excellence in Academic Publishing Award.**

2023 – 2025 — **External Examiner**, Information Systems Department, College of Computing and Informatics (CCI), Universiti Tenaga Nasional (UNITEN), Pahang, Malaysia.

2023 — **The World's Top 2% of Scientists**, Stanford University.

2022 – 2023 — **Distinguished Professor**, Information Systems Department, Faculty of Management, Universiti Teknologi Malaysia (UTM), Johor, Malaysia.

2023 — **The World's Top 2% of Scientists**, Stanford University.

2022 — **The World's Top 2% of Scientists**, Stanford University.

— **Academic Performance Award**, Bandirma Onyedi Eylul University.

— **The Most Influential Scientists in the World Award**, Bandirma Onyedi Eylul University.

— **The Global Scientist Excellence Award** (AD Scientific Index), Bandirma Onyedi Eylul University.

2021 — **The World's Top 2% of Scientists**, Stanford University.

2020 — **The World's Top 2% of Scientists**, Stanford University.

2010 — **Best Paper Award**, International Future-Learning Conference on Innovations in Learning.

2009 — **Best Paper Award**, European and Mediterranean Conference on Information Systems (EMCIS).

2005 — **Graduated with Distinction, Ranked First**, Department of Computer Education and Instructional Technology, Anadolu University.

Publications

Journal Articles Indexed in SCI/SSCI

1. **Arpaci**, **I.**, Karatas, K., & Gibreel, O. (2026). Examining the educational use of generative AI by integrating ECT and TTF using a hybrid SEM-ANN approach. *Discover Artificial Intelligence*.

2. **Arpaci**, **I.**, Al-Sharafi, M. A., & Mahmoud, M. A. (2026). Modeling behavioral intentions for sustainable adoption of autonomous vehicles: Theory, measurement, and predictive insights. *Transportation Research Part F: Psychology and Behaviour*, *116*, 103378. doi:https://doi.org/10.1016/j.trf.2025.103378

3. Gibreel, O., Karatas, K., & **Arpaci**, **I.** (2026). Prompt engineering competence, knowledge management, and technology fit as drivers of educational sustainability through generative AI. *Scientific Reports*.

4. Karatas, K., & **Arpaci**, **I.** (2026). The predictive role of personality traits and burnout on preservice teachers' future time perspectives: A hybrid SEM–ANN approach. *Personality and Individual Differences*, *248*, 113501. doi:https://doi.org/10.1016/j.paid.2025.113501

5. Kusci, I., Bakır, V., & **Arpaci**, **I.** (2026). Framing the digital self: Development and validation of the social media AI filter scale. *Online Information Review*. doi:https://doi.org/10.1108/OIR-02-2025-0115

6. Arabkermani, Z., Barzegari, S., Rouhani, A., Nahavandi, N., Gibreel, O., & **Arpaci**, **I.** (2025). Mobile apps designed for patients with polycystic ovary syndrome: Content analysis using the mobile app rating scale. *Journal of Medical Internet Research*, *27*, e71118. doi:https://doi.org/10.2196/71118

7. **Arpaci**, **I.**, Aslan, O., & Oner, I. E. (2025). Cybersecurity awareness scale (CSAS) for social media users: Development, validity and reliability study. *Information Development*. doi:https://doi.org/10.1177/02666669251336562

8. **Arpaci**, **I.**, Kusci, I., & Gibreel, O. (2025). The role of personality traits in predicting educational use of generative AI in higher education. *Scientific Reports*. doi:https://doi.org/10.1038/s41598-025-16339-0

9. **Arpaci**, **I.**, Al-Sharafi, M. A., & Mahmoud, M. A. (2025). Drivers of vehicle to everything (V2X): A behavioral reasoning theory perspective. *PLOS One*, *20*(7), e0327084. doi:https://doi.org/10.1371/journal.pone.0327084

10. Barzegari, S., ArabKermani, Z., Z.and Mahmoudvand, **Arpaci**, **I.**, Shabani, F., & Najaf, A. H. (2025). Prevalence and contributing factors of computer vision syndrome among university students in Iran: A cross-sectional study. *BMC Ophthalmology*, *25*(501). doi:https://doi.org/10.1186/s12886-025-04367-3

11. Barzegari, S., Hosseinzadeh Younesi, E., Jodaki, K., **Arpaci**, **I.**, Esmaeelzadeh, N., & Hasani, S. A. (2025). Validity and reliability of the persian version of the emotional labour scale for nurses. *BMC Nursing*, *24*, 923. doi:https://doi.org/10.1186/s12912-025-03587-8

12. Dogru, M. S., Yüzbaşıoğlu, F., & **Arpaci**, **I.** (2025a). A bibliometric trend analysis of augmented reality in STEM education. *Innovations in Education and Teaching International*. doi:https://doi.org/10.1080/14703297.2025.2483387

13. Dogru, M. S., Yüzbaşıoğlu, F., & **Arpaci**, **I.** (2025b). The effect of interactive videos enhanced with pop-up questions on teacher candidates' learning performance in science. *Research in Science & Technological Education*, *43*(1), 312–327. doi:https://doi.org/10.1080/02635143.2023.2272820

14. Gibreel, O., & **Arpaci**, **I.** (2025). Development and validation of the prompt engineering competence scale (PECS). *Information Development*. doi:https://doi.org/10.1177/02666669251336455

15. Kusci, I., Bakır, V., & **Arpaci**, **I.** (2025). Adaptation of the social media self-presentation scale to Turkish culture: A psychometric validation study. *Current Psychology*.

16. **Arpaci**, **I.** (2024a). A multi-analytical SEM-ANN approach to investigate the social sustainability of AI chatbots based on cybersecurity and protection motivation theory. *IEEE Transactions on Engineering Management*, *71*, 1714–1725. doi:https://doi.org/10.1109/TEM.2023.3339578

17. **Arpaci**, **I.**, Aslan, O., & Kevser, M. (2024). Evaluating short and long term investment strategies: Development and validation of the investment strategies scale (ISS). *Financial Innovation*, *10*, 63. doi:https://doi.org/10.1186/s40854-023-00573-4

18. **Arpaci**, **I.**, & Bahari, M. (2024). Investigating the role of psychological needs in predicting the educational sustainability of metaverse using a deep learning-based hybrid SEM-ANN technique. *Interactive Learning Environments*, *32*(6), 2957–2969. doi:https://doi.org/10.1080/10494820.2022.2164313

19. **Arpaci**, **I.**, Karatas, K., Gun, F., & Suer, S. (2024). Predicting teachers' sense of efficacy: A multimodal analysis integrating SEM, deep learning, and ANN. *Psychology in the Schools*. doi:https://doi.org/10.1002/pits.23222

20 **Arpaci**, **I.**, Al-Sharafi, M. A., & Mahmoud, M. A. (2024). Factors predicting green behavior and environmental sustainability in autonomous vehicles: A deep learning-based ANN and PLS-SEM approach. *Research in Transportation Business and Management*, *57*, 101228. doi:https://doi.org/10.1016/j.rtbm.2024.101228

21 Bahari, M., **Arpaci**, **I.**, Der, O., Akkoyun, F., & Ercetin, A. (2024). Driving agricultural transformation: Unraveling key factors shaping IOT adoption in smart farming with empirical insights. *Sustainability*, *16*(5), 2129. doi:https://doi.org/10.3390/su152115190

22 Al-Emran, M., Al-Qaysi, N., Al-Sharafi, M. A., Alhadawi, H. S., Ansari, H., **Arpaci**, **I.**, & Ali, N. (2024). Factors shaping physicians' adoption of telemedicine: A systematic review, proposed framework, and future research agenda. *International Journal of Human-Computer Interaction*. doi:https://doi.org/10.1080/10447318.2024.2410536

23 Gundogan, S., & **Arpaci**, **I.** (2024). Depression as a mediator between fear of COVID-19 and death anxiety. *Current Psychology*, *43*(14), 12990–12997. doi:https://doi.org/10.1007/s12144-022-03120-z

24 Ooi, K.-B., Wei-Han Tan, G., Al-Emran, M., Al-Sharafi, M. A., **Arpaci**, **I.**, Zaidan, A., … Iranmanesh, M. (2024). The metaverse in engineering management: Overview, opportunities, challenges, and future research agenda. *IEEE Transactions on Engineering Management*, *71*, 13882–13889. doi:https://doi.org/10.1109/TEM.2023.3307562

25 Yildiz, E., & **Arpaci**, **I.** (2024). Understanding pre-service mathematics teachers' intentions to use Geogebra: The role of technological pedagogical content knowledge. *Education and Information Technologies*. doi:https://doi.org/10.1007/s10639-024-12614-1

26 Akkoyun, F., Çevik, Z. A., Özsoy, K., Ercetin, A., & **Arpaci**, **I.** (2023). Image processing approach to investigate the correlation between machining parameters and burr formation in micro-milling processes of selective laser melted AISI 316L. *Micromachines*, *14*(7), 1376. doi:https://doi.org/10.3390/mi14071376

27 Akkoyun, F., Ozcelik, A., **Arpaci**, **I.**, Ercetin, A., & Gucluer, S. (2023). A multi-flow production line for sorting of eggs using image processing. *Sensors*, *23*(1), 117. doi:https://doi.org/10.3390/s23010117

28 **Arpaci**, **I.** (2023a). Predicting problematic smartphone use based on early maladaptive schemas by using machine learning classification algorithms. *Journal of Rational-Emotive & Cognitive-Behavior Therapy*, *41*, 634–643. doi:https://doi.org/10.1007/s10942-022-00450-6

29 **Arpaci**, **I.** (2023b). Predictors of financial sustainability for cryptocurrencies: An empirical study using a hybrid SEM-ANN approach. *Technological Forecasting and Social Change*, *196*, 122858. doi:https://doi.org/10.1016/j.techfore.2023.122858

30 **Arpaci**, **I.**, & Aslan, O. (2023). Development of a scale to measure cybercrime-awareness on social media. *Journal of Computer Information Systems*, *63*(3), 695–705. doi:https://doi.org/10.1080/08874417.2022.2101160

31 **Arpaci**, **I.**, & Ates, E. (2023). Development of the cybercrime awareness scale (CAS): A validity and reliability study in a Turkish sample. *Online Information Review*, *47*(4), 633–643. doi:https://doi.org/10.1108/OIR-01-2022-0023

32 **Arpaci**, **I.**, & Bahari, M. (2023). A complementary SEM and deep ANN approach to predict the adoption of cryptocurrencies from the perspective of cybersecurity. *Computers in Human Behavior*, *143*, 107678. doi:https://doi.org/10.1016/j.chb.2023.107678

33 **Arpaci**, **I.**, Dogru, M. S., Kanj, H., Ali, N., & Bahari, M. (2023). An experimental study on the effectiveness of a STEAM-based learning module in science education. *Sustainability*, *15*(8), 6807. doi:https://doi.org/10.3390/su15086807

34 **Arpaci**, **I.**, Ghazisaeedi, M., Esmaeilzadeh, F., Barzegari, R., & Barzegari, S. (2023). Ranking the critical success factors for hospital information systems using a fuzzy analytical hierarchy process. *CIN:*

Computers, Informatics, Nursing, *41*(10), 765–770.
doi:https://doi.org/10.1097/CIN.0000000000001042

35 **Arpaci**, **I.**, Kaya, A., & Bahari, M. (2023). Investigating the influence of an Arduino-based educational game on the understanding of genetics among secondary school students. *Sustainability*, *15*(8), 6942.
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36 **Arpaci**, **I.**, Kilicarslan, S., Aslan, O., & Ozturk, I. (2023). Air pollution in marmara region before and during the COVID-19 outbreak. *Environmental Monitoring and Assessment*, *195*(6), 764.
doi:https://doi.org/10.1007/s10661-023-11377-5

37 **Arpaci**, **I.**, Masrek, M. N., Al-Sharafi, M. A., & Al-Emran, M. (2023). Evaluating the actual use of cloud computing in higher education through information management factors: A cross-cultural comparison. *Education and Information Technologies*, *28*, 12089–12109.
doi:https://doi.org/10.1007/s10639-023-11594-y

38 **Arpaci**, **I.**, Tak, P., & Shekhawat, H. (2023). The moderating role of exhibitionism in the relationship between psychological needs and selfie-posting behavior. *Current Psychology*, *42*, 3610–3616.
doi:https://doi.org/10.1007/s12144-021-01732-5

39 Bahari, M., **Arpaci**, **I.**, Azmi, N. F. M., & Shuib, L. (2023). Predicting the intention to use learning analytics for academic advising in higher education. *Sustainability*, *15*(21), 15190.
doi:https://doi.org/10.3390/su152115190

40 Al-Emran, M., Al-Nuaimi, M., **Arpaci**, **I.**, Al-Sharafi, M. A., & Jnr, B. A. (2023). Towards a wearable education: Understanding the determinants affecting students' adoption of wearable technologies using machine learning algorithms. *Education and Information Technologies*, *28*(3), 2727–2746.
doi:https://doi.org/10.1007/s10639-022-11294-z

41 Huang, S., **Arpaci**, **I.**, Al-Emran, M., Kılıcarslan, S., & Al-Sharafi, M. A. (2023). A comparative analysis of classical machine learning and deep learning techniques for predicting lung cancer survivability. *Multimedia Tools and Applications*. doi:https://doi.org/10.1007/s11042-023-16349-y

42 Karataş, K., **Arpaci**, **I.**, & Süer, S. (2023). Predicting academic self-efficacy based on self-directed learning and future time perspective. *Psychological Reports*.
doi:https://doi.org/10.1177/00332941231191721

43 Karatas, K., **Arpaci**, **I.**, & Yildirim, Y. (2023). Predicting the culturally responsive teacher roles with cultural intelligence and self-efficacy using machine learning classification algorithms. *Education and Urban Society*, *55*(6), 674–697. doi:https://doi.org/10.1177/00131245221087999

44 Muhametjanova, G., Adanır, G. A., & **Arpaci**, **I.** (2023). Investigation of gaming habits, personality traits, and internet gaming disorder among Kyrgyz adolescents. *International Journal of Mental Health and Addiction*, *21*(2), 869–877. doi:https://doi.org/10.1007/s11469-021-00628-6

45 Al-Sharafi, M. A., Al-Emran, M., **Arpaci**, **I.**, A. Iahad, N., AlQudah, A. A., Iranmanesh, M., & Al-Qaysi, N. (2023). Generation Z use of artificial intelligence products and its impact on environmental sustainability: A cross-cultural comparison. *Computers in Human Behavior*, *143*, 107708.
doi:https://doi.org/10.1016/j.chb.2023.107708

46 Al-Sharafi, M. A., Al-Emran, M., **Arpaci**, **I.**, Marques, G., Namoun, A., & Iahad, N. A. (2023). The impact of psychological, social, and quality factors on the continuous intention to use virtual meeting platforms during COVID-19 pandemic: A hybrid SEM-ANN approach. *International Journal of Human-Computer Interaction*, *39*(13), 2673–2685.
doi:https://doi.org/10.1080/10447318.2022.2084036

47 **Arpaci**, **I.** (2022). Gender differences in the relationship between problematic internet use and nomophobia. *Current Psychology*, *41*(9), 6558–6567.
doi:https://doi.org/10.1007/s12144-020-01160-x

48 **Arpaci**, **I.**, & Gundogan, S. (2022). Mediating role of psychological resilience in the relationship between mindfulness and nomophobia. *British Journal of Guidance & Counselling*, *50*(5), 782–790. doi:https://doi.org/10.1080/03069885.2020.1856330

49 **Arpaci**, **I.**, Karatas, K., Baloglu, M., & Haktanir, A. (2022). COVID-19 phobia in the United States: Validation of the COVID-19 phobia scale (C19P-SE). *Death Studies*, *46*(3), 553–559. doi:https://doi.org/10.1080/07481187.2020.1848945

50 **Arpaci**, **I.**, Karatas, K., Kiran, F., Kusci, I., & Topcu, A. (2022). Mediating role of positivity in the relationship between state anxiety and problematic social media use during the COVID-19 pandemic. *Death Studies*, *46*(10), 2287–2297. doi:https://doi.org/10.1080/07481187.2021.1923588

51 **Arpaci**, **I.**, Karatas, K., Kusci, I., & Al-Emran, M. (2022). Understanding the social sustainability of the metaverse by integrating UTAUT2 and big five personality traits: A hybrid SEM-ANN approach. *Technology in Society*, *71*, 102120. doi:https://doi.org/10.1016/j.techsoc.2022.102120

52 **Arpaci**, **I.**, & Sevinc, K. (2022). Development of the cybersecurity scale (CS-S): Evidence of validity and reliability. *Information Development*, *38*(2), 218–226. doi:https://doi.org/10.1177/0266666921997512

53 Ghazisaeedi, M., Mahmoodi, H., **Arpaci**, **I.**, Mehrdar, S., & Barzegari, S. (2022). Validity, reliability, and optimal cut-off scores of the WHO-5, PHQ-9, and PHQ-2 to screen depression among university students in Iran. *International Journal of Mental Health and Addiction*, *20*(3), 1824–1833. doi:https://doi.org/10.1007/s11469-021-00483-5

54 Al-Sharafi, M. A., Al-Emran, M., Iranmanesh, M., Al-Qaysi, N., Iahad, N. A., & **Arpaci**, **I.** (2022). Understanding the impact of knowledge management factors on the sustainable use of AI-based chatbots for educational purposes using a hybrid SEM-ANN approach. *Interactive Learning Environments*. doi:https://doi.org/10.1080/10494820.2022.2075014

55 Xie, Y., **Arpaci**, **I.**, Xiao, Y., Meng, F., & Xie, R. (2022). Reliability and validity of the Chinese version of the COVID-19 phobia scale. *BMC Psychology*, *10*, 314. doi:https://doi.org/10.1186/s40359-022-01013-1

56 **Arpaci**, **I.** (2021c). Relationships between early maladaptive schemas and smartphone addiction: The moderating role of mindfulness. *International Journal of Mental Health and Addiction*, *19*(3), 778–792. doi:https://doi.org/10.1007/s11469-019-00186-y

57 **Arpaci**, **I.**, Huang, S., Al-Emran, M., Al-Kabi, M. N., & Peng, M. (2021). Predicting the COVID-19 infection with fourteen clinical features using machine learning classification algorithms. *Multimedia Tools and Applications*, *80*(8), 11943–11957. doi:https://doi.org/10.1007/s11042-020-10340-7

58 Barzegari, S., **Arpaci**, **I.**, Ranjbar, A. Z., Afrooz, E., & Ghazisaeedi, M. (2021). Persian version of the smartphone addiction inventory (SPAI-PV): Psychometric evidence of validity and reliability. *International Journal of Mental Health and Addiction*. doi:https://doi.org/10.1007/s11469-021-00666-0

59 Karatas, K., & **Arpaci**, **I.** (2021a). The mediating role of tolerance in the relationship between cultural intelligence and xenophobia. *Asia Pacific Education Review*, *22*(1), 119–127. doi:https://doi.org/10.1007/s12564-021-09675-z

60 Alshurideh, M., Al Kurdi, B., Salloum, S. A., **Arpaci**, **I.**, & Al-Emran, M. (2020). Predicting the actual use of m-learning systems: A comparative approach using PLS-SEM and machine learning algorithms. *Interactive Learning Environments*. doi:https://doi.org/10.1080/10494820.2020.1826982

61 **Arpaci**, **I.** (2020b). What drives students' online self-disclosure behaviour on social media? a hybrid SEM and artificial intelligence approach. *International Journal of Mobile Communications*, *18*(2), 229–241. doi:https://doi.org/10.1504/IJMC.2020.105847

62 **Arpaci**, **I.**, Abdeljawad, T., Baloglu, M., Kesici, S., Mahariq, I. et al. (2020). Mediating effect of internet addiction on the relationship between individualism and cyberbullying: Cross-sectional questionnaire study. *Journal of Medical Internet Research*, *22*(5), e16210. doi:https://doi.org/10.2196/16210

63 **Arpaci**, **I.**, Alshehabi, S., Al-Emran, M., Khasawneh, M., Mahariq, I., Abdeljawad, T., & Hassanien, A. E. (2020). Analysis of Twitter data using evolutionary clustering during the COVID-19 pandemic. *Computers, Materials & Continua*, *65*(1), 193–204. doi:https://doi.org/10.32604/cmc.2020.011489

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65 **Arpaci**, **I.**, Al-Emran, M., & Al-Sharafi, M. A. (2020). The impact of knowledge management practices on the acceptance of massive open online courses (MOOCs) by engineering students: A cross-cultural comparison. *Telematics and Informatics*, *54*, 101468.
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75 **Arpaci**, **I.**, Baloglu, M., & Kesici, S. (2018). The relationship among individual differences in individualism-collectivism, extraversion, and self-presentation. *Personality and Individual Differences*, *121*, 89–92. doi:https://doi.org/10.1016/j.paid.2017.09.034

76 **Arpaci**, **I.**, Kesici, Ş., & Baloğlu, M. (2018). Individualism and internet addiction: The mediating role of psychological needs. *Internet Research*. doi:https://doi.org/10.1108/IntR-11-2016-0353

77 **Arpaci**, **I.**, Yalcin, S. B., Baloglu, M., & Kesici, S. (2018). The moderating effect of gender in the relationship between narcissism and selfie-posting behavior. *Personality and Individual Differences*, *134*, 71–74. doi:https://doi.org/10.1016/j.paid.2018.06.006

78 **Arpaci**, **I.** (2017a). Antecedents and consequences of cloud computing adoption in education to achieve knowledge management. *Computers in Human Behavior*, *70*, 382–390. doi:https://doi.org/10.1016/j.chb.2017.01.024

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2 Alsarayreh, S., Al-Emran, M., **Arpaci**, **I.**, & Shaalan, K. (2025). Promoting environmental sustainability through chatbot use in shipment delivery: An integrated model of UTAUT2 and TTF. Asia-Pacific Journal of Business Administration.

3 **Arpaci**, **I.**, Al-Emran, M., Al-Qaysi, N., & Al-Sharafi, M. A. (2025). What drives the use of generative artificial intelligence to promote educational sustainability? evidence from SEM-ANN approach. Techtrends. doi:https://doi.org/10.1007/s11528-025-01089-7

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20. **Arpaci**, **I.** (2020a). The influence of social interactions and subjective norms on social media postings. Journal of Information & Knowledge Management, 19(3), 2050023. doi:https://doi.org/10.1142/S0219649220500239

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doi:https://dergipark.org.tr/tr/pub/jeim/issue/52607/692543

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30. **Arpaci**, **I.** (2015e). Student assessment of teaching effectiveness in entrepreneurship course at the faculty of education. Sakarya University Journal of Education Faculty, 30, 138-154.

31. **Arpaci**, **I.**, Yardimci, Y. C., Ozkan, S., & Turetken, O. (2012). Organizational adoption of information technologies: A literature review. International Journal of ebusiness and egovernment Studies, 4(2), 37-50.

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33. **Arpaci**, **I.**, & Gurbuz, T. (2011). Innovation in learning: Innovative tools and techniques for learning. International Journal of E-Adoption (IJEA), 3(1), 29-37.
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2. **Arpaci**, **I.**, Karataş, K., Zeybek, G., & Haktanir, A. (2024). Environmental attitude, global social responsibility, and digital literacy: Predictors of green purchase intentions among emerging adults. In M. A. Al-Sharafi, M. Al-Emran, G. W.-H. Tan, & K.-B. Ooi (Eds.), *Current and future trends on intelligent technology adoption, volume 2, studies in computational intelligence, 1161* (pp. 79–96). doi:https://doi.org/10.1007/978-3-031-61463-7_5

3. Barzegari, S., **Arpaci**, **I.**, & Mahmoudvand, Z. (2022). Spatial accessibility to hospitals based on GIS: An empirical study in Ardabil. In M. Al-Emran & K. Shaalan (Eds.), *Recent innovations in artificial intelligence and smart applications. Studies in computational intelligence, vol 1061. Springer, Cham* (pp. 361–369). doi:https://doi.org/10.1007/978-3-031-14748-7_20

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6. **Arpaci**, **I.** (2021a). Infrastructures: Sustainable technologies. In T. Cura (Ed.), *Bilişim sistemleri. (m: Information systems, 4e)*. Nobel.

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12. Al-Maroof, R. A., **Arpaci**, **I.**, Al-Emran, M., Salloum, S. A., & Shaalan, K. (2021). Examining the acceptance of whatsapp stickers through machine learning algorithms. In M. Al-Emran, K. Shaalan, & A. Hassanien (Eds.), *Recent advances in intelligent systems and smart applications* (pp. 209–221). doi:https://doi.org/10.1007/978-3-030-64987-6

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14. **Arpaci**, **I.** (2017b). Design and development of educational multimedia: The software development process for mobile learning. In M. Khosrow-Pour (Ed.), *Blended learning: Concepts, methodologies, tools, and applications* (pp. 366–384). doi:https://doi.org/10.4018/978-1-5225-0783-3.ch018

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18. Yarlikas, S., **Arpaci**, **I.**, & Afacan, G. (2013). User acceptance of egovernment services: Analysis of users' satisfaction level based on technology acceptance model. In I. Yetkiner, M. Pamukcu, & E. Erdil (Eds.), *Industrial dynamics, innovation policy, and economic growth through technological advancements* (pp. 348–362). doi:https://doi.org/10.4018/978-1-4666-1978-4.ch018

19. **Arpaci**, **I.** (2011a). E-Turkey: Turkey's way to the information society. In D. Piaggesi, K. Sund, & W. Castelnovo (Eds.), *Global strategy and practice of e-governance: Examples from around the world* (pp. 272–285). doi:https://doi.org/10.4018/978-1-60960-489-9.ch015

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1. **Arpaci**, **I.**, Al-Emran, M., Al-Sharafi, M. A., & Marques, G. (2021). *Emerging technologies during the era of COVID-19 pandemic*. Springer. Retrieved from https://doi.org/10.1007/978-3-030-67716-9

2. Yildiz, E., & **Arpaci**, **I.** (2021). *Matematik eğitiminde yenilikçi teknolojiler*. Nobel.

3. **Arpaci**, **I.**, & Arifoglu, A. (2010). *Technological innovation model for public sector: Management of innovation in the public organizations*. Lambert Academic Publishing.

Conference Proceedings

1. Barzegari, S., **Arpaci**, **I.**, & Shaalan, K. (2022). Determining factors affecting nurses' acceptance of a hospital information system using a modified technology acceptance model 3. In M. Al-Emran, M. A. Al-Sharafi, & K. Shaalan (Eds.), *International conference on information systems and intelligent applications. lecture notes in networks and systems, vol 550*. Springer. doi:https://doi.org/10.1007/978-3-031-16865-9_35

2. Al-Emran, M., **Arpaci**, **I.**, & Al-Sharafi, M. A. (2022). Development and initial testing of google meet use scale (GMU-S) in educational activities during and beyond the COVID-19 pandemic. In M. Al-Emran, M. A. Al-Sharafi, & K. Shaalan (Eds.), *International conference on information systems and intelligent applications. lecture notes in networks and systems, vol 550*. Springer. doi:https://doi.org/10.1007/978-3-031-16865-9_60

3. Mehdinezhad, H., **Arpaci**, **I.**, Rahmani, M., Vahidafshar, T., & Barzegari, S. (2022). Psychometric properties and validation of the Persian version of the health information technology usability evaluation scale. In M. Al-Emran, M. A. Al-Sharafi, & K. Shaalan (Eds.), *International conference on information systems and intelligent applications. lecture notes in networks and systems, vol 550*. Springer. doi:https://doi.org/10.1007/978-3-031-16865-9_36

4. **Arpaci**, **I.**, Barzegari, S., & Askarian, F. (2021). Adoption of picture archiving and communication system (PACS) by healthcare professionals. In *International conference on emerging technologies and intelligent systems* (pp. 807–813). Springer. doi:https://doi.org/10.1007/978-3-030-85990-9_63

5. **Arpaci**, **I.**, Barzegari, S., Mahmoodi, H., Afrooz, E., & Ranjbar, A. Z. (2021). Psychometric characteristics of the Iranian smartphone addiction inventory short form (SPAI-SF). In *International conference on emerging technologies and intelligent systems* (pp. 633–641). Springer. doi:https://doi.org/10.1007/978-3-030-85990-9_51

6. Seong, M., & **Arpaci**, **I.** (2021). Pandemic awareness scale (PAS) development and evidence of validity and reliability. In *The Korean society of psychiatric nursing conference*. The Korean Society of Psychiatric.

7. **Arpaci**, **I.**, & Eldemir, S. (2019a). An investigation of the relationship between nomophobia and smartphone addiction. In *13th international computer and instructional technologies symposium*. ICITS, Kırşehir, Turkey.

8. **Arpaci**, **I.**, & Eldemir, S. (2019b). An investigation of the relationships between mindfulness, personality characteristics and nomophobia. In *13th international computer and instructional technologies symposium*. ICITS, Kırşehir, Turkey.

9. **Arpaci**, **I.**, Cobanoglu, L., & Oner, I. E. (2018). An investigation of the relationship between school administrators' technology leadership competencies and project submissions. In *13th international congress on educational administration*. UEYK, Sivas, Turkey.

10. **Arpaci**, **I.**, Esgi, N., & Ünver Kocadağ, T. (2018). An investigation of the relationship between smartphone addiction and five factor personality traits. In *12th international computer and instructional technologies symposium*. ICITS, Izmir, Turkey.

11. **Arpaci**, **I.**, & Öner, I. E. (2018). The relationship between the socio-cultural orientations and technological pedagogical and content knowledge (TPACK) competencies. In *13th international congress on educational administration*. UEYK, Sivas, Turkey.

12. **Arpaci**, **I.** (2017c). Factors predicting the use of smartphones for information management in education. In *11th international computer and instructional technologies symposium*. ICITS, Malatya, Turkey.

13. **Arpaci**, **I.**, Baloglu, M., Ozteke Kozan, H. I., & Kesici, S. (2017). Individual differences in the relationship between attachment and nomophobia: The mediating role of mindfulness. In *2nd international academic research congress*. INES, Alanya, Turkey.

14. **Arpaci**, **I.**, & Özdağ, M. E. (2017). Designing a prerequisite knowledge level determination algorithm for intelligent tutoring systems. In *11th international computer and instructional technologies symposium*. ICITS, Malatya, Turkey.

15. **Arpaci**, **I.** (2016b). Classical and contemporary learning paradigms, theories, and models: A systematic review. In *10th international computer and instructional technologies symposium*. ICITS, Rize, Turkey.

16. **Arpaci**, **I.** (2016e). Understanding the antecedents and determinants of educational use of knowledge management systems. In *International conference on innovative teaching and technology in higher education*, Istanbul, Turkey.

17. **Arpaci**, **I.** (2015d). Acceptance of scratch among pre-service information technology teachers. In *Digital life environment congress*. DLE, Istanbul, Turkey.

18. Mahariq, I., **Arpaci**, **I.**, & Kuzuoglu, M. (2015). Analysis of scattering from perfect electric conducting cylinders by spectral element method. In *IEEE computational electromagnetics international workshop (CEM)* (pp. 1–2). IEEE. doi:https://doi.org/10.1109/CEM.2015.7237421

19. **Arpaci**, **I.** (2014). Using tablets to enhance teaching and learning: Advantages, limitations, and suggested solutions. In *8th international computer and instructional technologies symposium*. ICITS, Edirne, Turkey.

20. **Arpaci**, **I.**, Yardimci, Y. C., & Turetken, O. (2013). The impact of cultural differences on smartphone adoption by organizations. In *Third international conference on innovative computing technology (intech 2013)* (pp. 421–423). IEEE. London, UK.

21. **Arpaci**, **I.**, Yardimci, Y. C., & Turetken, O. (2012). Organizational adoption of mobile communication technologies. In *9th European, Mediterranean and Middle Eastern conference on information systems*. EMCIS, Munich, Germany.

22. **Arpaci**, **I.**, & Ates, H. (2010). Organizational and cultural challenges of egovernment. In *2nd international conference on egovernment and egovernance*, Antalya, Turkey.

23. **Arpaci**, **I.**, Gürbüz, T., & Yarlıkaş, S. (2010). New technologies in elearning: Creative tools of web 2.0 and semantic web. In *3rd international future-learning conference on innovations in learning for the future 2010: E-learning*, Istanbul, Turkey.

24. **Arpaci**, **I.**, & Uzun, Y. (2010). The innovation portfolio: Strategies, concepts and methodologies. In *2nd international eurasia business and economic society conference*. EBES, Istanbul, Turkey.

25. **Arpaci**, **I.**, Yarlıkaş, S., & Afacan, G. (2010). User acceptance of e-government services: Analysis of users' satisfaction level based on technology acceptance model. In *4th international conference on industrial dynamics, innovation policy and growth*, Izmir, Turkey.

26. **Arpaci**, **I.** (2009a). Egovernment and service innovation: Challenges and drivers. In *International conference on egovernment: Sharing experiences*, Antalya, Turkey.

27. **Arpaci**, **I.** (2009b). Managing public innovation: Toward developing a new model for public organizations. In *4th Mediterranean conference on information systems*. MCIS, Athens, Greece.

28. **Arpaci**, **I.**, & Arifoglu, A. (2009). E-transformation and technological innovation in Turkey. In *European and Mediterranean conference on information systems*. EMCIS, Izmir, Turkey.

29. **Arpaci**, **I.**, & Gürbüz, T. (2009a). Innovative learning environments for new approaches in education. In *3rd international computer and instructional technologies symposium*. ICITS, Trabzon, Turkey.

30. **Arpaci**, **I.**, & Gürbüz, T. (2009b). The changing role of universities as a catalyst for innovation. In *International conference on changing universities: Governance, relevance, performance*. ICITS, Istanbul, Turkey.

Projects

2025 – 2027 **Principal Investigator (PI)**, AI-Driven Evaluation of Top Cybersecurity Behaviour Models, TUBITAK 1071 - Support Programme for Increasing Capacity to Benefit from International Research Funds and Participation in International R&D Cooperation (2553 TÜBİTAK - PSF (Pakistan) Bilateral Cooperation Program).

2024 – 2026 **Principal Investigator (PI)**, Sustainable Energy Grids (V2X), Dato' Low Tuck Kwong International Energy Transition Grant under project code 202202002ETG (Bandirma Onyedi Eylul University - UNITEN (Malaysia) Bilateral Cooperation Protocol).

2024 – 2025 **Supervisor**, MEDBIT Project, TEKNOFEST 2025 Blockchain Competition Finalist.

2022 – 2023 **Researcher**, Developing secondary school mathematics teachers' technological pedagogical content knowledge, TUBITAK 4004 - Education in Nature and Science Camps/Schools (Project Number: 222B111).

2019 – 2020 **Manager**, Design, development, and implementation of distance education non-thesis master's programs for Teachers, Education and Research Infrastructure Support and Development Program Project (Project Number: 2019/73). Tokat Gaziosmanpasa University.

2016 – 2017 **Manager**, Distance Education Financial Information System (FI) Module, Tokat Gaziosmanpasa University Scientific Research Project Grant (Project Number: 2016/04).

2019 – 2012 **Researcher**, METU Integrated Information Systems (IIS) Project, Middle East Technical University.

Projects (continued)

2006 – 2008 **Developer**, Design and development of the courseware for Informatics Online (The first online M.Sc. degree program in Turkey), Middle East Technical University.

2003 – 2014 **Developer**, Launch and Design of the Information Management Program (The first online associate degree program in Turkey), Anadolu University, Open Education Faculty.

2002 – 2005 **Developer**, Distance Education Software Project (Design and development of tutorials and practice software), Anadolu University, Open Education Faculty.

Miscellaneous Experience

Teaching Experience

Autumn
- **D**atabase Management Systems
- **S**oftware Requirements and Analysis
- **S**cientific Research Methods

Spring
- **D**atabase Concepts and Applications
- **P**roblem Solving and Algorithms
- **S**oftware Engineering

Supervised Theses

2022 **M.Sc. Thesis**,"The Impact of Educational Game Use in Science Education on Students' Academic Achievement" by Abdullah Kaya.

2021 **M.Sc. Thesis**, "Development of cybercrime awareness scale (CAS): Validity and reliability study" by Ersin Ates.

M.Sc. Thesis, "Development of the cybersecurity scale (CS-S): Evidence of validity and reliability" by Kadir Sevinc.

M.Sc. Thesis, "Investigation of the relationships between psychological needs, mindfulness and nomophobia" by Sümeyye Eldemir.

Grants and Achievements

2013 – 2014 **Research Grant**, Ted Rogers School of Management Internal Research Grant for project titled "Organizational adoption of mobile communication technologies."

2012 – 2013 **Scholarship**, Higher Education Council of Turkey Doctoral Research Scholarship.

Professional Memberships

2023 – · · · · **Editorial Board Member**, Computer Systems Science and Engineering (SCI, Q1, IF:4.397).

2021 **Editor**, Emerging technologies during the era of COVID-19 pandemic, Springer.

2021 – · · · · **Associate Editor**, Frontiers in Education - Digital Education (ESCI).

2019 – · · · · **Scientific Board Member**, International Conference on Emerging Technologies and Intelligent Systems (ICETIS).

Scientific Board Member, International Conference on Telecommunication Systems and Networks.

2018 – · · · · **Editorial Board Member**, Knowledge Management and E-Learning (ESCI, Scopus).

Editorial Board Member, Information Management.

2017 **Editor**, Turkish Journal of Electrical Engineering and Computer Sciences (SCI-E).

2014 – · · · · **Scientific Board Member**, International Computer and Instructional Technologies Symposium (ICITS).

2009 **Member**, The Institute of Electrical and Electronics Engineers (IEEE).

Miscellaneous Experience (continued)

Talks, Panalist and Referee

- 2022 **Speaker**, TUBITAK Science Talks, Problematic Technology Use.
- **Referee**, TEKNOFEST Technology Competitions.
- **Referee**, TUBITAK 4007 Projects.
- 2021 **Referee**, TUBITAK 4004 Projects.
- 2020 **Project Panelist**, TUBITAK 1071 Projects.
- **Consultant**, TUBITAK 1005 Projects.
- 2019 **Referee**, TUBITAK 1501 TEYDEB Projects.
- **Referee and Committee**, Tokat Teknopark, Hackathon, Smart Agriculture Software.
- **Referee**, Ministry of Education, Tokat is Coding Project.
- 2017 **Project Panelist**, TUBITAK 1003 Projects.
- 2016 **Consultant**, TUBITAK Social Sciences and Humanities Research Grant Committee.
- **Referee**, Ministry of Education, A Software Story Project.
- **Project Panelist**, TUBITAK 1001 Projects in Educational Technology Panel.

Certification

- 2025 **Certificate**. Amazon Web Services (AWS) Academy Educator.
- 2022 **Certificate**. Higher Education Institutions Foreign Language Test (YÖKDİL) Score 92.5.
- 2020 **Certificate**. OKA Project Cycle Management PCM.
- 2019 **Certificate**. TRIZ Problem-Solving and Design Thinking.
- 2018 **Certificate**. Certificate in Entrepreneurship.
- **Certificate**. KOSGEB Entrepreneurship Certificate.
- 2015 **Certificate**. TUBITAK Project Development in Engineering and Natural Sciences.
- 2014 **Certificate**. Nvivo 10 Qualitative Data Analysis.
- 2003 **Certificate**. System Programming in C.