AI-ASSISTED LANGUAGE TEACHING: THEORY, PRACTICE, AND CLASSROOM IMPLEMENTATION

Mehmet EKİZOĞLU

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Mehmet EKİZOĞLU

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Bostrom, N. (2014). *Superintelligence: Paths, dangers, strategies*. Oxford University Press.

DeKeyser, R. (2007). *Practice in a second language: Perspectives from applied linguistics and cognitive psychology*. Cambridge University Press.

Fryer, L., & Carpenter, R. (2006). *Student engagement in AI-based language learning*. Educational Technology Research and Development, 54(3), 285-301.

Goertzel, B., & Pennachin, C. (2007). *Artificial general intelligence*. Springer.

Goodfellow, I., Bengio, Y., & Courville, A. (2016). *Deep learning*. MIT Press.

Krashen, S. D. (1985). *The input hypothesis: Issues and implications*. Longman.

Kumar, R., Smith, L., & Patel, M. (2020). *Personalized learning with AI: Innovations and challenges*. Routledge.

Long, M. H. (1996). *The role of the linguistic environment in second language acquisition*. In W. C. Ritchie & T. K. Bhatia (Eds.), *Handbook of second language acquisition* (pp. 413-468). Academic Press.

Nguyen, T., & Walker, A. (2022). *AI in education: New frontiers and perspectives*. Springer.

Russell, S. J., & Norvig, P. (2021). *Artificial intelligence: A modern approach* (4th ed.). Pearson.

Schmidt, R. (1990). *The role of consciousness in second language learning*. Applied Linguistics, 11(2), 129-158.

Taylor, P. (2009). *Text-to-speech synthesis*. Cambridge University Press.

Vygotsky, L. S. (1978). *Mind in society: The development of higher psychological processes*. Harvard University Press.

Wang, X., & Chen, Y. (2018). *AI-driven language learning: A case study of adaptive learning systems*. Educational Technology & Society, 21(4), 45-58.

Yang, J., & Li, H. (2021). *The impact of AI-based feedback on EFL writing performance*. Journal of Language Teaching Research, 12(1), 67-85.

Zhang, Q. (2019). *Ethical considerations in AI-assisted language learning*. AI & Society, 34(3), 289-