

# Deep learning-based approach to image recognition

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## ABSTRACT

Algorithms for finding numerous distributed representation levels are included in the category of deep learning algorithms. Many deep learning methods have recently been developed to tackle classic artificial intelligence issues. Deep learning techniques in computer vision are being reviewed by emphasising contributions and difficulties from current research articles in this paper. In the beginning, it offers an overview of several deep learning techniques and their most recent advances before briefly describing their use in various vision tasks.

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## References

- [1] N. Srivastava, G. Hinton, A. Krizhevsky et al., "Dropout: A simple way to prevent neural networks from overfitting", *The Journal of Machine Learning Research*, vol. 15, no. 1, pp. 1929-1958, 2014.
- [2] Y. LeCun, "Learning invariant feature hierarchies", *ECCV workshop*, 2012.
- [3] Y. Bengio, "Deep learning of representations: Looking forward" in *Statistical Language and Speech Processing*, Springer Berlin Heidelberg, pp. 1-37, 2013.
- [4] R. Goroshin and Y. LeCun, "Saturating auto-encoders", *ICLR*, 2013.
- [5] H. Li, R. Zhao and X. Wang, "Highly efficient forward and backward propagation of convolutional neural networks for pixelwise classification", technical report, 2014.
- [6] D. Erhan, Y. Bengio, A. Courville et al., Why does unsupervised pre-training help deep learning? *The Journal of Machine Learning Research*, vol. 11, pp. 625-660, 2010. T. Stonier, "The evolution of machine intelligence", In *Beyond Information*, pp. 107-133, 1992.
- [7] Converse PE (1968) Time budgets. In: Sills D (ed.) *International Encyclopedia of the Social Sciences*. New York: Macmillan, pp. 42-47.
- [8] Dayan D and Katz E (1992) *Media Events: The Live Broadcasting of History*. Cambridge, MA: Harvard University Press.
- [9] De Grazia S (1962) *Of Time, Work, and Leisure*. New York: Twentieth Century Fund.