# Prenos stila avtorja preko globokih nevronskih mrež

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## 1 Opis raziskovalne metode, ki je primerna za predlagano diplomsko temo

- Comparative study / primerjalna študija: ta metoda se mi zdi primerna, saj je cilj moje diplomske naloge razložiti kako algoritem deluje in kakšne so moderne izvedbe le tega.
- Simulation / simulacija: s pomočjo te metode bom simuliral delovanje in preveril učinkovitost preko spletne ankete.

## 2 Seznam literature

- Deep residual learning for image recognition [1] (najprej teoretični uvod, nato simulacija in primerjava ter zaključek)
- How transferable are features in deep neural networks? [2] (najprej teoretični uvod, nato simulacija in primerjava ter zaključek)
- Feature Learning in Deep Neural Networks – Studies on Speech Recognition Tasks [3] (najprej teoretični uvod, nato primerjava in zaključek)

## Literatura

[1] Kaiming He, Xiangyu Zhang, Shaoqing Ren, and Jian Sun. Deep residual learning for image recognition. In *Proceedings of the IEEE conference on computer vision and pattern recognition*, pages 770–778, 2016.

[2] Jason Yosinski, Jeff Clune, Yoshua Bengio, and Hod Lipson. How transferable are features in deep neural networks? In *Advances in neural information processing systems*, pages 3320–3328, 2014.

[3] Dong Yu, Michael L Seltzer, Jinyu Li, Jui-Ting Huang, and Frank Seide. Feature learning in deep neural networks-studies on speech recognition tasks. *arXiv preprint arXiv:1301.3605*, 2013.