

# **LITERATURE SURVEY ON DEEP LEARNING FUNDUS IMAGE ANALYSIS FOR EARLY DETECTION OF DIABETIC RETINOPATHY:**

1. Marshall, S. M. & Flyvbjerg, A. Prevention and early detection of vascular complications of diabetes. *BMJ*. **333**(7566), 475–480 (2006).
2. Hutchinson, A. *et al.* Effectiveness of screening and monitoring tests for diabetic retinopathy—a systematic review. *Diabet Med*. **17**(7), 495–506 (2000).
3. Taylor, R. & Batey, D. *Handbook of Retinal Screening in Diabetes: Diagnosis and Management*. Wiley (2012).
4. Gulshan, V. *et al.* Development and Validation of a Deep Learning Algorithm for Detection of Diabetic Retinopathy in Retinal Fundus Photographs. *JAMA*. **316**(22), 2402–2410 (2016).
5. Ting, D. S. W. *et al.* Development and Validation of a Deep Learning System for Diabetic Retinopathy and Related Eye Diseases Using Retinal Images From Multiethnic Populations With Diabetes. *JAMA*. **318**(22), 2211–2223 (2017).
6. Wilkinson, C. P. *et al.* Proposed international clinical diabetic retinopathy and diabetic macular edema disease severity scales. *Ophthalmology*. **110**(9), 1677–1682 (2003).
7. Summanen, P. *et al.* Update on Current Care Guideline: Diabetic retinopathy. *Duodecim*. **131**(9), 893–894 (2015).
8. Krause, J. *et al.* Grader Variability and the Importance of Reference Standards for Evaluating Machine Learning Models for Diabetic Retinopathy. *Ophthalmology*. **125**(8), 1264–1272 (2018).
9. Guan, M. Y., Gulshan, V., Dai, A. M. & Hinton, G. E. Who Said What: Modeling Individual Labelers Improves Classification. *arXiv e-prints*., <https://ui.adsabs.harvard.edu/#abs/2017arXiv170308774G>. (Accessed March 01, 2017).
10. Wang, F., Casalino, L. P. & Khullar, D. Deep Learning in Medicine-Promise, Progress, and Challenges. *JAMA Intern Med*. (2018).
11. Medical Research Act, [https://www.finlex.fi/en/laki/kaannokset/1999/en19990488\\_20100794.pdf](https://www.finlex.fi/en/laki/kaannokset/1999/en19990488_20100794.pdf) (2010).
12. Goodfellow, I., Bengio, Y. & Courville, A. Deep Learning. MIT Press (2016).

13. Szegedy, C., Vanhoucke, V., Ioffe, S., Shlens, J. & Wojna, Z. Rethinking the Inception Architecture for Computer Vision. *arXiv e-prints*. 2015, <https://ui.adsabs.harvard.edu/#abs/2015arXiv151200567S> (Accessed December 01, 2015).
14. Russakovsky, O. *et al.* ImageNet Large Scale Visual Recognition Challenge; **115**(3):211–252 (2015).