**A Predictive Analysis of Comorbidity Using Neural Networks**

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**Abstract**

1. **Intro**

**2.0 Literature Review**

Diagram

Description automatically generated

**Figure 1**. Qian et al.’s Realization of Deep Diffusion Process (DPP) [2020]

Diagram, engineering drawing

Description automatically generated

**Figure 2.** A Network of Symptoms without Latent Classifiers [Cramer et al., 2010]

**References**

[1] Cramer, A. O. J., Waldorp, L. J., van der Maas, H. L. J., & Borsboom, D. (2010). Comorbidity: A network perspective. Behavioral and Brain Sciences, 33(2–3), 137–150. <https://doi.org/10.1017/s0140525x09991567>

[2] Qian, Z. Q., Alaa, A. A., Bellot, A. B., Schaar, M. S., & Rashbass, J. R. (2020). Learning Dynamic and Personalized Comorbidity Networks from Event Data using Deep Diffusion Processes. Proceedings of the Twenty Third International Conference on Artificial Intelligence and Statistic, 3295–3305. http://proceedings.mlr.press/v108/qian20a