

Sample Annotated Bibliographies on Cognitive Diagnosis

Literature A: Fuzzy Cognitive Diagnosis for Modelling Examinee Performance

Liu Q, Wu R, Chen E, et al. Fuzzy cognitive diagnosis for modelling examinee performance[J]. ACM Transactions on Intelligent Systems and Technology (TIST), 2018, 9(4): 1-26. [1]

This article provides an overview of the paper's organization and introduces the problem of cognitive modelling with examination data. The authors propose a new framework for fuzzy cognitive diagnosis that can extract information from both objective and subjective examination problems. Their research focuses on cognitive modelling with examination data in educational settings. The proposed framework is designed to be applicable to both objective and subjective examination problems. FuzzyCDF provides a more precise and interpretable way to analyze examinee performance than previous methods. The proposed framework has not been tested on a wide range of datasets or in different educational contexts. It may not be suitable for all types of examination problems or for all levels of student proficiency. The proposed framework, FuzzyCDF, shows promise for improving cognitive diagnosis in educational settings by extracting valuable information from both objective and subjective examination problems. FuzzyCDF solves this challenge of analyzing subjective questions in the cognitive diagnosis.

References

- [1] Qi Liu, Runze Wu, Enhong Chen, Guandong Xu, Yu Su, Zhigang Chen, and Guoping Hu. Fuzzy cognitive diagnosis for modelling examinee performance. ACM Transactions on Intelligent Systems and Technology, 9:1–26, 01 2018.