



Medical Artificial Intelligence

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Abstract:

Medical artificial intelligence (AI) is a hot point in AI utilities now, of which clinical diagnosis is one important AI administration. Diagnostic AI (D-AI) is the simulation of doctor's clinical thinking for clinical analysis and decision. These abilities come from many-years medical education and clinical experience. Therefore, D-AI should also be based on medical knowledge from medical university and clinical experience. However, at present most D-AI is based on big data analysis, it is now right. The first big question of big data based D-AI is that it is not evidence-based analysis which is absolutely required by evidence-based medicine in clinical analysis and decision. The second is that its algorithm can not be interpreted by medical knowledge, thus could induce algorithm black box, which is now commonly suggested to avoid. A medical knowledge based D-AI algorithm is needed to set up right D-AI, simulating clinician's clinical thinking.

Publication of speakers:

1. Dr. Yifan Zhu, TRIM25 upregulation by Mycobac-



terium tuberculosis infection promotes intracellular survival of M.tb in RAW264.7 cells, Microbial Pathogenesis, Available online 15 August 2020, 104456, In Press, Journal Pre-proof What are Journal Pre-proof articles?

2. Sarah Guido, Andreas Müller, "Introduction to Machine Learning with Python", O'Reilly,2017
3. Alice Zheng, Amanda Casari, "Feature Engineering for Machine Learning- Principles and Techniques for Data Scientists", O'Reilly,2019
4. Prateek Joshi, "Artificial Intelligence with Python", O'Reilly,2017

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