



Graduate School of Information Science, University of Hyogo
10th International Research Seminar

TRUSTED MEDICAL AI WITH UNCERTAINTY ESTIMATION

Wed. 22 Jan. 2025 (13:00 ~ 14:00) JST

ONLINE SEMINAR

During the past decade, deep learning has achieved great success in healthcare. However, most existing methods aim at model performance in terms of higher accuracy, which lacks the information reflecting the reliability of the prediction. It cannot be trustworthy for diagnosis making and even is disastrous for safety-critical clinical applications. How to build a reliable and robust healthcare system has become a focal topic in both academia and industry. In the talk, I will give a brief introduction of uncertainty estimation in deep learning. Then, I will share our recent works for trustworthy AI in healthcare, including open set learning for anomaly identification, and trusted multi-modality dynamic fusion.

Register here (free)

<https://shorturl.at/QDo4B>

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Guest Speaker



Huazhu Fu

Principal Scientist,
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Dr. Huazhu Fu is a Principal Scientist at the Institute of High Performance Computing (IHPC), Agency for Science, Technology and Research (A*STAR), Singapore. His research interests encompass Medical Image Analysis, AI for Healthcare, and Trustworthy AI. He has published more than 200 papers in top conferences and journals (e.g., Nature Machine Intelligence, Nature Communications, IEEE TPAMI, and IEEE TMI) with over 23,000 citations on Google Scholar. He has been recognized with several awards, including the Best Paper Award at ICME 2021, the Best Paper Award at MICCAI-OMIA 2022, and the Best Paper Award at MICCAI-DeCAF 2023. He serves as an Associate Editor for several journals, including IEEE Transactions on Medical Imaging (TMI), IEEE Transactions on Neural Networks and Learning Systems (TNNLS), Pattern Recognition (PR), IEEE Transactions on Artificial Intelligence (TAI), and IEEE Journal of Biomedical and Health Informatics (JBHI).

For more details:

<https://hzfu.github.io/>