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"Innovating Health"
Distinguished Speaker Webinar Series

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12 OCT, TUE, 10 – 11 AM (Singapore)

How to build the Ecosystem for Digital Healthcare Innovation

Digital technology, such as artificial intelligence (AI), telemedicine, the internet of things (IoT), big data analytics and 5G networks, has vast potential to impact healthcare. However, the pace of adoption of digital technology has been slow in healthcare settings due to a complex interaction of technical and non-technical factors. For example, many AI and digital technology are tested in highly ideal "laboratory conditions" and not validated in "real-world" clinical settings that will consider local patient populations and context, making physicians and policymakers hesitant to embrace these technologies. Non-technical factors such as the acceptance from patients and physicians, support from professional bodies, data security and medico-legal risks, government funding and reimbursement also impede the adoption and scaling of such technology in healthcare. This talk will cover the challenge of integrating and deploying an AI algorithm (SELENA+) in developing and scaling a national telemedicine-based screening program in diabetic retinopathy, a blinding eye disease in diabetes. Understanding issues and challenges are critical for computer scientists, engineers, healthcare policymakers, healthcare leaders and program managers to implement digital innovation in healthcare settings. As the saying goes, "…change is not merely installing or using new technology but introducing and sustaining major changes to a complex system…"

Speaker biography:
https://www.duke-nus.edu.sg/about/leadership/senior-management/wong-tien-yin

Register here
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