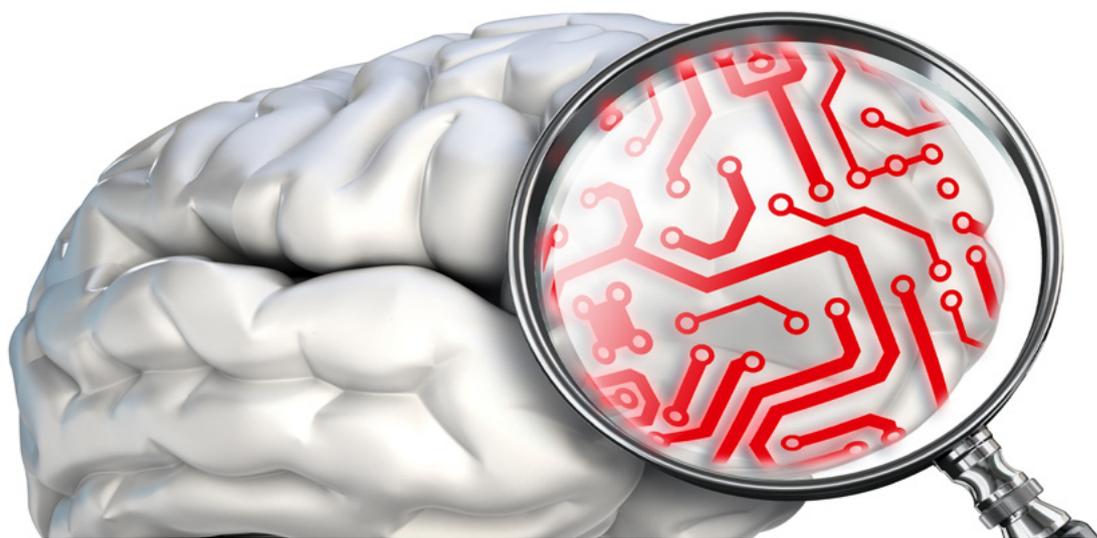


DEEPMIND INTO THE FUTURE OF ARTIFICIAL INTELLIGENCE



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DeepMind has shown that AI can master the world's most difficult board game: Go. How far more before AI can be used in daily lives?

DK: It's still early days for the real world application of cutting edge AI research, with many open questions. **AI is already an integral part of our daily lives - from voice recognition on our smartphones, to search engines and driverless cars.** In the same way that AlphaGo has taught us new moves about one of the most contemplated games in human history, AI may help us discover new possibilities in a many areas, especially in science.

In an interview with CBS, Dr. David Hanson said, "Artificial intelligence or super intelligence, if we get there, it's not necessarily going to be benevolent. We have to find ways to make it so there's not just super intelligent, but super wise, super caring and super compassionate." Is there anything to fear?

DK: **AI is a powerful technology and safety has to be central to our thinking. Part of this is about how you create the right governance mechanisms, so experts in other fields can advise and challenge AI companies about how it's used.** We were one of the founding board members of the Partnership on AI, and we're really pleased that it's now bringing together most of the leading company labs (Microsoft, Facebook, IBM, Apple, Amazon) and non-profits like ACLU, OpenAI, the MacArthur Foundation. We also have a group of prominent Independent Reviewers at DeepMind Health who oversee our work. We recognise the importance of our work, and are committed to engaging in meaningful and collaborative dialogue to ensure the full benefits of AI technology can be realised. We also have a dedicated AI safety group, which is making great progress and will publish more papers in the coming year.

DeepMind is working very closely with healthcare providers to provide better treatment. How does your team ensure that your solutions are shaped by patients and clinicians?

DK: It is a central part of our strategy to put patients and clinicians at the heart of our work at DeepMind Health. Outcomes are better when patients and clinicians make decisions together, and we think this should apply to the way in which technology is developed too. We're proud to have worked with the late Rosamund Snow, patient editor of the British Medical Journal, who drafted our first formal patient and public involvement (PPI) strategy. This strategy outlines how patients should be involved throughout all our work. **We continue to run regular Public and Patient Involvement and Engagement workshops with patients, and have appointed a Patient Lead to engage patient and public groups, and to ensure that our work is always in touch with patient needs. We also work incredibly closely with clinicians in developing our technologies.** I am one of many physicians who are part of the DeepMind Health team.

Name one health solution from DeepMind that we should all keep an eye out for. Why?

DK: We are really excited for the future of our clinical app Streams. We've partnered with three NHS hospitals - the Royal Free London NHS Foundation Trust, Somerset and Taunton NHS Foundation Trust and Imperial College Healthcare NHS Trust - who will be able to use our system to quickly review test results for serious issues and receive alerts about significant patient deteriorations. **Within weeks of going live, nurses were reporting that Streams was saving them up to two hours a day.** This is time that can be redirected from routine administration to direct patient care. **Clinicians using Streams are also telling us every day about patients whose care is being sped up.** A full evaluation of Streams is currently under way.

Dr. Dominic King is one of the keynote speakers on 12 September at HIMSS AsiaPac17. View the program [here](#).

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