



Cybersecurity and merging technologies

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As the boundaries between the physical, digital, economic, biological, social and technological worlds blur, we are at the beginning of a wave of disruptive and rapid societal transformation. Some of the largest opportunities and challenges of the 21st Century - including rapid urbanisation, climate change, ageing populations, the ever-increasing “solidity” of cyberspace and the rise of artificial intelligence – come from the convergence of those worlds. Much of the disruption comes from technologies developed by engineers and computer scientists, often from within traditional disciplinary silos and without anticipation of the impacts beyond the original applications. We must now step up and partner beyond the traditional disciplinary boundaries to seize the opportunities that come from the convergence of previously disparate worlds as well as to respond to the challenges that converges poses. In this talk, I will discuss two issues to be addressed under this agenda – the convergence of classical and quantum technologies, as well as the convergence of technical and social science skills - and talk about how they are relevant to cybersecurity.