AMCA Toronto Online Lecture Series 2020

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Davor Pavuna: Post-Covid Challenges in the Age of Intelligent Robots

Prof. Davor Pavuna, PhD

Davor received his M. Sc. in Physics at University of Zagreb, Croatia, in 1977 and his PhD in Quantum Physics at University of Leeds, UK, in 1982. After three years in France, India, Australia and USA, since 1986 he has been permanently at the EPFL in Lausanne, Switzerland. His main research is on complexity correlations and (macroscopic) quantum phenomena. In 1992 he published a textbook on superconductivity, which has been used in approximately 4,000 courses worldwide. Davor wrote more than 250 articles, 35 reviews and edited 25 professional books. He was a chair of 35 international conferences and seven summer schools. He participated in more than hundred colloquia in leading institutions worldwide and was an invited speaker in as many conferences. He delivered hundreds of public lectures and has been an adviser to 36 governmental agencies and advanced high tech companies worldwide. Davor is the President of Tesla World Foundation and of AMAC Switzerland.

Abstract

Most contemporary business approaches include some smart web application. With all the biological challenges in the post-covid world, the digital information technologies and quantum supremacy will in the next decade provide dramatic changes in Canada (as well as in Croatia)! The quantum computing is billion (yes, 1'000'000'000) times faster than present 'classical' computers, and all our passwords are 'open'. By ≈ 2030s the artificial intelligence systems and human-like robots will on average become more intelligent than humans. Hence, the speed of thought becomes our daily operational reality, and numerous new opportunities will emerge for all of us. I will critically examine some of these key trends and difficulties and provide several examples, specifically chosen for open minded entrepreneurs and Canadian and Croatian visionaries.

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