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Quantum technology policy in Japan


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Biography

President Kohei Itoh graduated from Keio University and received his M. S. and Ph. D. in Engineering from University of California, Berkeley. He joined Keio University as a faculty member in 1995 and became a full professor in 2007. He served as Dean of Faculty and Graduate School of Science and Technology of Keio University between 2017 and 2019, and as the Chair of Keio AI and Advanced Programming Consortium between 2018 and 2021. His main focus of research has been quantum computing, quantum sensing, and quantum physics, which led to more than 330 journal publications. He is one of 210 Council Members of Science Council of Japan representing ~870,000 scholars of the country to propose and advice academic and scientific policies in Japan, and has served on numerous executive boards including the Physical Society of Japan and the Japan Society of Applied Physics. He leads the Program Director of Quantum Information Technology in the MEXT Quantum Leap Flagship Program for researchers representing the field. He is a recipient of the Japan IBM Prize (2006) and the JSPS (Japan Society for the Promotion of Science) Prize (2009). He is also a founder of the IBM Quantum Computer Network Hub at Keio University.

Abstract

In January 2020, Japanese Government compiled the “Quantum Technology and Innovation Strategy,” which formed the basis of policies to enhance research and development of quantum technology in Japan. Thanks to this initiative, Japan has been able to invest significant



amounts of financial and human resources to stay as one of the main players of quantum innovation in the world. In order to accelerate such effort even further, in March 2022, Japanese government has announced the “Vision of Quantum Future Society,” that aims to enable a social reform through quantum technology. This presentation overviews an overall policy of Japan on quantum technology research and development.