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Technology Innovation Institute Joins the Quantum Computing Challenge with Launch of Open-Source ‘Qibo’

By **Editor Team** - April 28, 2021

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- *Written in programming languages such as Python and C/C++, Qibo is the entry point for a full stack programming platform*

Technology Innovation Institute (TII), has announced that its Quantum Research Centre (QRC) has developed the first simulation version of ‘Qibo’, an open-source quantum computing programming framework, in collaboration with researchers from around the world. The development follows a series of rapid announcements at TII since the first ATRC board meeting in August 2020.
Qibo is designed to support quantum algorithms across different computer systems, including support to hardware accelerators such as graphics processing units (GPUs) and multiple quantum devices. It said that this makes makes Qibo easy to use for quantum programming and accelerates research and applications.
Written in programming languages such as Python and C/C++, Qibo is the entry point for a full stack programming platform, able to run quantum algorithms across different quantum computers and simulators.

First release of Qibo was published in September 2020

Qibo is a joint project by Quantum Research Centre; Qilimanjaro Quantum Tech, the Barcelona-based quantum computing company; and researchers at other global centres. TII’s Quantum Research Centre team is led by Chief Researcher Prof José Ignacio Latorre. The first release of Qibo was published in September 2020, with the final version set for launch within the next two years.

Prof José Ignacio Latorre, Chief Researcher at Quantum Research Centre, said: “We are committed to innovation that transcends boundaries. The quantum advantage in computing will offer notable benefits to broader society, ranging from life-sciences, artificial intelligence, and finance.”

Editor Team

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