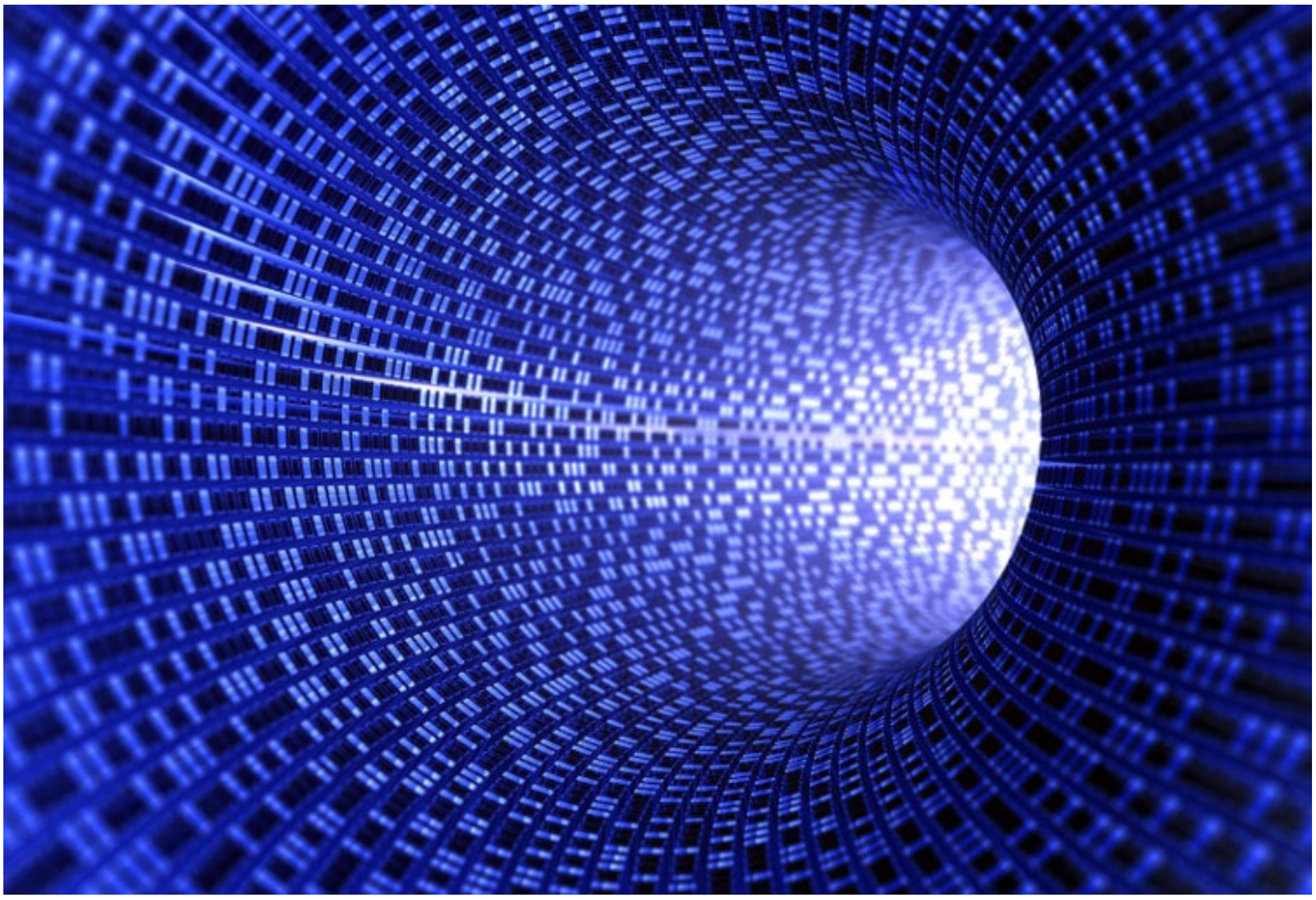
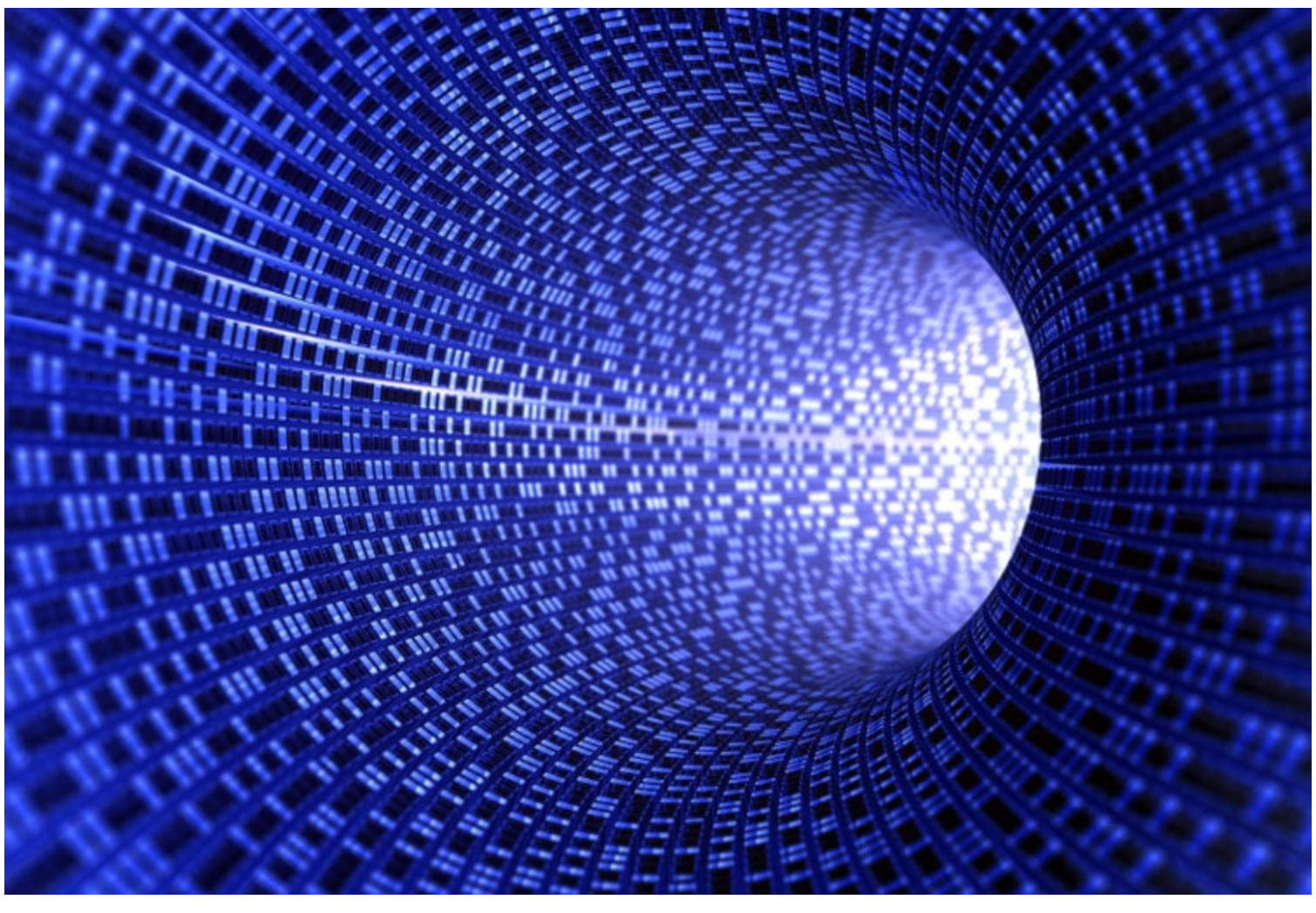
News

D-Wave brings quantum computing to open source world

By **Rajat Kabade** - January 16, 2017

8139 0





Quantum computing is still a concept for many. But D-Wave Systems, a company known for developing solutions for quantum physics, has released the code of its quantum software tool.

Called Qbsolv, the open source tool is designed to build high-level tools and applications based on quantum computing systems. The latest development is aimed to abandon the needs for any complex physics of quantum computers. It also brings faster experiences for larger and more complex problems.

“By making our tools open source, we expand the community of people working to solve meaningful problems using quantum computers,” said Bo Ewald, president of D-Wave International, in a statement.

Canada-based D-Wave is trying to join the initiative of building an ecosystem of open source software in the quantum computing space by releasing the code of its Qbsolv. The tool is already being used for breaking down complex problems into smaller segments. These parts can be run on D-Wave’s quantum processor and can be combined to figure out overall solutions.

Well-known for solving large optimisation problems

Furthermore, Qbsolv is already a well-known offering for its capabilities to solve large optimisation problems. D-Wave claims that the tool helps users solve 20-times larger problems.

“Qbsolv opens a world of possibility for developers,” said Fred Glover, the inventor of the tabu search solver and an active quantum computing supporter. “We are looking forward to implementing new hybrid quantum/classical algorithms working with D-Wave’s Qbsolv developers.”

The D-Wave team has built the Qbsolv in a quadratic unconstrained binary optimisation (QUBO) format for better understanding. This QUBO form is quite being used with classical computing to solve various application development issues.

You can find the code and documentation of Qbsolv from a GitHub repository. It allows easy development of applications for the initial set of quantum computing models.

TAGS D-Wave | open source quantum computing | Qbsolv | Qbsolv open source | quantum computing

Previous article

Canonical releases a pack of security patches for Ubuntu users

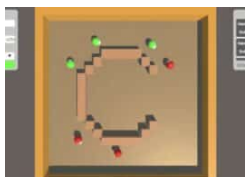
Next article

Why 2017 will belong to open source

Rajat Kabade

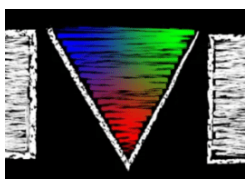
Rajat is into blogging since he was in the high-school. He’s an Android geek, known for his work on Android ROMs & Kernels on XDA developers forum. He manages Google Developer Group Pune community.

RELATED ARTICLES



Open-Source Platform For Human-AI Teaming Playground

Akanksha Gaur - December 24, 2024



Open-Source Graphics Driver Achieves Vulkan 1.4 Conformance

Akanksha Gaur - December 20, 2024

New Open-Hardware Development Board

Akanksha Gaur - December 17, 2024

NO COMMENTS

LEAVE A REPLY

Comment:

Name:*

Email:*

Website:

Save my name, email, and website in this browser for the next time I comment.

POST COMMENT

ABOUT US

Open Source For You is Asia's leading IT publication focused on open source technologies. Launched in February 2003 (as Linux For You), the magazine aims to help techies avail the benefits of open source software and solutions. Techies that connect with the magazine include software developers, IT managers, CIOs, hackers, etc. A free DVD, which contains the latest open source software and Linux distributions/OS, accompanies each issue of Open Source For You. The magazine is also associated with different events and online webinars on open source and related technologies.

FOLLOW US

© Open Source For You 2021