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## **Solving Technological Challenges with the Fujitsu Digital Annealer**

*Friday, 23 August 2019 17:05 (25 minutes)*

The Fujitsu Digital Annealer is a new technology that is used to solve large-scale combinatorial optimization problems instantly. The Digital Annealer uses a digital circuit design and can solve problems which are intractable for classical computers. In this workshop, we introduce how the Digital Annealer works for solving combinatorial optimization problems with use cases drawn from scientific fields including health care, pharmaceuticals, and physics. Included is an introduction to expressing technical problems in a quadratic unconstrained binary optimization (QUBO) format for solution using the Digital Annealer.

**Presenters:** Mr ENGLISH, Jeffrey (Fujitsu); Mr OZAKI, Tadayoshi (Fujitsu)

**Session Classification:** Data Science and Quantum Computing Workshop

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