

Quantum and classical computation on the Deutsch-Jozsa problem

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The Deutsch-Jozsa problem has a special role within quantum computation, first because it was the first problem which was proven to be easily solvable by quantum computers, second because, being rather easy, it has become the paradigmatic example of the way in which quantum computers work. In my work I have discussed that problem both in the frame of the quantum and classical computation trying to compare these two different ways of judgment.