

Abstract

Title: The Ghost in the Computer

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While teleportation has been the preferred means of moving fictional action heroes around the Universe for the better part of four decades, until recently, most people regarded teleportation as little more than science fiction. However, just a few years ago a small band of physicists and computer scientists placed teleportation of quantum information on a firm scientific footing. In this speech I will review the state-of-the-art in quantum teleportation and explore its potential roles in the computers of the future.