

Sudoku solver with simulated annealing

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Jim Carstens (5558816)

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Introduction

In this report,

1 Sudoku

The Sudoku

2 Contradiction

\vec{R} can be time independent if $\frac{d\vec{R}}{dt} = 0$. This is the case when $\vec{\Omega} \times \vec{R} = 0$. This holds for $|\vec{\Omega}||\vec{R}|\sin(\theta) = 0$. Now, either $\vec{R} = 0$, which is trivial. Or, $\vec{\Omega} = 0$, in this case there is no optical field. Or, $\sin(\theta) = 0$, in which case $\vec{\Omega}$ and \vec{R} are parallel or point in the same direction. It follows that it is possible for this equation to also yield a time-independent solution, either in absence of an optical field, or when the two vectors are parallel, solving the contradiction.