

SOFM String

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The Comparison of Pulled and Pushed-SOFM in Single String for Global Path Planning of Mobile Robot

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Key Words: Path planning()

Abstract

In this research uses a predetermined initial weight vectors of 1-dimensional string, gives the systematic input vector whose position best matches obstacles, and trains the weight vectors such that neurons within the activity bubble are moved toward or reverse the input vector. According to simulation results one can conclude that the modified neural network is useful tool for the global path planning problem of a mobile robot.

SOFM

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가 , 가

가 가 가

(1)

self-organizing feature map(SOFM)⁽²⁾ 가

. SOFM

가

, 가 . 가 가 가

가

가 가

1 (string)

가 가

. 가

2.

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* (pulled) SOFM 1 가
 ** (pushed) SOFM 1 가 Fig. 2

