

D-FMP02

Domestic Poster Session

14:00-14:50

Chair : Huh Uk-Youl (Inha Univ.)

Room : Terrace(3F)

Co-Chair : Kim In Won (Konkuk Univ.)

14:00 – 14:50

D-FMP-49

Color Object Recognition and Real-Time Tracking using Neural Networks

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In recent years there have been increasing interests in real-time object tracking with image information. Since image information is affected by illumination, this paper presents the real-time object tracking method based on neural networks that have robust characteristics under various illuminations. This paper proposes three steps to track the object and the fast tracking method. In the first step the object color is extracted using neural networks. In the second step we detect the object feature information based on invariant moment. Finally the object is tracked through a shape recognition using neural networks. To achieve the fast tracking performance, we have a global search for entire image and then have tracking the object through local search when the object is recognized.
