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About

Dr Jiang's main research interests are image processing and pattern recognition. Now she works with Dr Andrew Schofield for the project "Extract intrinsic image from a single image". They try to integrate the knowledge of human vision system into computer vision system.

Research

Currently, Dr Jiang is especially interested in several aspects of image processing: (1) how to apply statistical models to image modelling and understanding; (2) the transformation of an image processing problem, e.g. segmentation and classification, into an optimization problem; and how to solve such optimization problems efficiently; (3) the setting up of illumination models for objects, for predicting the appearance of these objects under different lighting conditions, and consequently for improving the performance of related algorithms; and (4) object detection and recognition problems in general.

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