

Dr Xiaoyue Jiang

Research fellow

[School of Psychology \(/schools/psychology/index.aspx\)](/schools/psychology/index.aspx)

Contact details

Email x.y.jiang@bham.ac.uk (<mailto:x.y.jiang@bham.ac.uk>)

University of Birmingham
Edgbaston
Birmingham
B15 2TT
UK



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.

Publications

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