

北京邮电大学 本科毕业设计（论文）任务书

Project Specification Form

Part 1 – Supervisor

论文题目 Project Title	App design and realization for Photo identification of circuit		
题目分类 Scope	Software Development	Implementation	Software
主要内容 Project description	With the development of image recognition technology, the technology to transform pictures into words by taking photos has been very mature. For example, taking photos to identify topics, license plates and so on have brought a lot of convenience to our life. In this project, students are required to develop a mobile app to take photos and identify circuit diagrams. By identifying circuit components in photos, the circuit diagrams are stored as pictures and uploaded to the database. The student is asked to develop a smart education phone app. The app need to have below functions at least: 1. It can recognize the circuit diagram in the picture; 2. It can store the circuit diagram in the database; 3. realize at least 1 recommendation algorithm based on data minning.		
关键词 Keywords	Image recognition, Phone app		
主要任务 Main tasks	1 Identify the circuit diagram in the picture		
	2 Build a database of circuit diagrams		
	3 A novel recommendation algorithm		
	4 Develop the smart education phone app		
主要成果 Measurable outcomes	1 The data set of the circuit diagram identified by a photograph		
	2 A novel recommendation algorithm		
	3 A smart education phone app		