《自然语言处理》课程中英文简介

[Natural Language Processing](http://www.baidu.com/link?url=8DVkte-ZH_Z8yvZ1adsBDmV0wKGaJrWjQREs1mBVkNpTcKNLUntbQmC4kc5ZivkTMAcysQx5G27x1BZ9ow_2DYxCuFOw8-ySX6drQp88udFs01zANyLmTHWRJXytQ4Wd1_nBlHXIAp0O4BOUOiqBp_)

课程代码：071573B **Course Code：**071573B

课程名称：自然语言处理 **Course Name：**[Natural Language Processing](http://www.baidu.com/link?url=8DVkte-ZH_Z8yvZ1adsBDmV0wKGaJrWjQREs1mBVkNpTcKNLUntbQmC4kc5ZivkTMAcysQx5G27x1BZ9ow_2DYxCuFOw8-ySX6drQp88udFs01zANyLmTHWRJXytQ4Wd1_nBlHXIAp0O4BOUOiqBp_)

学时：48 **Periods：**48

学分：3 **Credits：**3

考核方式：考查 **Assessment：**Test course

先修课程：数据科学导论、 **Preparatory Courses：**Introduction to data

大数据分析算法 science，Big Data Analysis algorithm

《自然语言处理》是为信息管理与信息系统专业（大数据方向）开设的专业核心课程。通过本门课程的教学，使学生掌握自然语言处理的基本理论和应用；了解不同类型的自然语言分析方法和技术；探索自然语言处理中的挖掘和预测理论和算法。教学过程中，采用课堂教学和实践教学相结合的方法，为学生进一步学习大数据中的智能决策技术奠定基础。

本课程是一门专业核心课程，它将基于传统的统计方法，学习自然语言处理中的基本概念、原理和主要算法，以及在大数据挖掘与分析中的应用。包括自然语言分析和应用概述，以及大规模语料库的支持下，统计语言模型在语言知识自动学习中的应用。在此基础上，将结合文本分类和聚类、机器翻译、信息检索、网络挖掘等近一步加深学生对自然语言处理系统的设计策略和实现技术的了解。

" [Natural Language Processing](http://www.baidu.com/link?url=8DVkte-ZH_Z8yvZ1adsBDmV0wKGaJrWjQREs1mBVkNpTcKNLUntbQmC4kc5ZivkTMAcysQx5G27x1BZ9ow_2DYxCuFOw8-ySX6drQp88udFs01zANyLmTHWRJXytQ4Wd1_nBlHXIAp0O4BOUOiqBp_) " is a specialized core course for information management and information system specialty (big data direction). Through the teaching of this course, make students master the basic theory and application of [natural language processing](http://www.baidu.com/link?url=8DVkte-ZH_Z8yvZ1adsBDmV0wKGaJrWjQREs1mBVkNpTcKNLUntbQmC4kc5ZivkTMAcysQx5G27x1BZ9ow_2DYxCuFOw8-ySX6drQp88udFs01zANyLmTHWRJXytQ4Wd1_nBlHXIAp0O4BOUOiqBp_); understand the analytical methods and techniques using in different data types, to explore the data mining and prediction theory and algorithm in the analysis of [natural language](http://www.baidu.com/link?url=8DVkte-ZH_Z8yvZ1adsBDmV0wKGaJrWjQREs1mBVkNpTcKNLUntbQmC4kc5ZivkTMAcysQx5G27x1BZ9ow_2DYxCuFOw8-ySX6drQp88udFs01zANyLmTHWRJXytQ4Wd1_nBlHXIAp0O4BOUOiqBp_). In the course of teaching, the method of combining classroom teaching with practice teaching is used to lay the foundation for students to further study the intelligent decision making technology in big data.

This course will be based on the traditional statistical methods to study the basic concepts, principles and main algorithms of text mining, and their application in big data mining and analysis. It includes the introduction of natural language analysis and application, and the application of statistical language model in the automatic learning of language knowledge, supported by large-scale corpus. On this basis, we will combine the text classification and clustering, machine translation, information retrieval and network mining to deepen the students’ understanding of the design strategy and implementation technology of the Natural Language Processing system.