**《人工智能》实验指导**

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# 实验报告基本格式

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1.1 系统名称

1.2 系统概述

二、实验内容

2.1 系统设计

2.2 系统及模块实现

2.3 系统调试

三、实验结果

3.1系统演示或运行过程

3.2实验总结

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**实验 一 　知识的表示，推理，掌握符号主义推理原理，编程实现置换合一**

**实验目的：**

掌握符号主义的推理原理；掌握谓词公式的书写和表达及其范式的求取和化简；掌握置换合一方法。C语言编程，或采用CoppeliaSim平台

**实验环境（硬/软件要求）：**

硬件：计算机一台

软件：C，C++， Visual C++或其他开发平台

**实验内容：**

1. 学生自选具体推理问题，写出其谓词公式；
2. 合取范式的求取和化简；
3. 编程实现最一般合一置换的普适程序；
4. 用上述实例运行测试程序；

**实验主要步骤：**

1. 编程实现置换合一算法；
2. 实例的选取和分析；
3. 谓词公式，范式的求取和化简；
4. 运行测试程序

# 实验二 传教士与野人问题

**实验目的：**

用SWI-Prolog平台、或VC++平台实现一个搜索程序；求解传教士与野人问题。

**实验环境（硬/软件要求）：**

硬件：计算机一台

软件：C，C++， Visual C++，prolog，matlab或其他开发平台

**实验内容：**

要求解的问题：

描述一：有一天三个传教士来到一个野蛮人居住的地方进行传教，传说这个部落是吃人的氏族，在一条小河前，他们遇到了三个野人同时也要过河，六个人虎目眈眈，而河中 只有一只仅容纳两人的小船。如果在度过小河的过程中，野人数目多于传教士，那么势单力孤的传教士就要被吃掉。而传教士又不能伤害野人。请你想个办法让六个人都安全的过河。

描述二：设有3个传教士和3个野人同在河的左岸，他们都要到对岸去；河里只有一条船，他们都会划船，但每次渡船至多只能乘两人；如果在任何一边河岸上，野人的数量超过传教士，野人就要吃掉传教士，问怎样才能用船将3个传教士和3个野人从左岸都渡到右岸，又不会发生传教士被吃的事件呢？通过Prolog程序，给出乘船过河的动作序列。

**实验主要步骤：**

（1）   设计该问题的状态。例如：((左岸牧师数，左岸野人数),船的位置)。

（2）   定义目标状态。这里是：((0,0), 1)

（3）      描述可能的动作。船上所能够载人的状态就是可能的操作。

（4）    运用搜索算法（深度或广度）编程计算。

# 实验三 斑马属谁问题求解

**实验目的：**

用C，VC++，或其他开发平台实现程序，求解斑马属谁问题，达到对启发式搜索、排列组合等相关算法的掌握。

**实验环境（硬/软件要求）：**

硬件：计算机一台

软件：C，C++， Visual C++，prolog，matlab或其他开发平台

**实验内容：**

编程求解斑马属谁问题。

实验主要步骤：

1. 设计规则；
2. 编写程序；
3. 验证答案；

**相关代码及问题**

有五个房子，每个房子的颜色不同，里面分别住着不同国家的人，每个人都有自己养的不同的宠物，喜欢和不同的饮料，抽不同牌子的烟。现在已知以下的一些信息：

英国人（englishman）住在红色（red）的房子里。

西班牙人（spaniard）养了一条狗（dog）。

挪威人（norwegian）住在左边的第一个房子里。

黄房子（yellow）里的人喜欢抽kools牌的香烟。

抽chesterfields牌香烟的人与养狐狸（fox）的人是邻居。

挪威人（norwegian）住在蓝色（blue）的房子旁边。

抽winston牌香烟的人养了一只蜗牛（Snails）。

抽Lucky Strike牌香烟的人喜欢喝桔子汁（orange juice）。

乌克兰人（ukrainian）喜欢喝茶（tea）。

日本人（japanese）抽parliaments牌的烟。

抽kools牌的香烟的人与养马（horse）的人是邻居。

喜欢喝咖啡（coffee）的人住在绿（green）房子里。

绿（green）房子在象牙白（ivory）房子的右边（图中的右边）。

中间那个房子里的人喜欢喝牛奶（milk）。

根据以上条件，你能告诉我哪个房子里的人养斑马（zebra），哪个房子里的人喜欢喝水（water）吗？或者你能把所有的东西都对号入座吗？

# 实验四 客户分类与预测

**实验目的：**

用C，VC++，或其他开发平台实现程序，求解斑马属谁问题，达到对启发式搜索、排列组合等相关算法的掌握。

**实验环境（硬/软件要求）：**

硬件：计算机一台

软件：C，C++， Visual C++，prolog，matlab或其他开发平台

**实验内容：**

编程利用ID3算法对客户分类与预测。已知一些客户数据，包括客户的收入档次、第一次购买时间、第二次购买时间，及是否是该产品的潜在客户。请建立模型，描述数据之间的关系，用于进行潜在客户的判定和预测。相关数据见附录1.

# 实验五 摘香蕉的机器人

**实验目的：**

掌握机器人仿真；掌握视觉基本处理、模拟机器人运动环境、路径规划等方法。

**实验环境（硬/软件要求）：**

硬件：计算机一台

软件：CoppeliaSim， C，C++， Visual C++，prolog，matlab或其他开发平台

**实验内容：**

按教材中第二章习题，可用C语言模拟实现机器人摘香蕉的过程，包括：

（1）状态空间设计。

（2）算子，每个算子的前提条件，删除条件，添加条件；

（3）规划算法；

（4）用C语言模拟场景动作；

**实验主要步骤：**

（1）设计状态空间；

（2）设计算子；

（3）规划算法和程序；

（4）运行测试程序。

# 附录1 相关数据及问题

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@attribute FirstPurchase numeric

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