2017年的题目跟往年的题目相比,题型变化比较大,只有第5题和第8题是往年的。

计算量不算很大,但是由于平时相关的题目做得不多,所以会手生,算起来比较慢,**100**分钟做不完。

想争取高分的可以提前把<mark>数据仓库(数据立方体,星状图),分类(Grain 信息增益决策</mark>树归纳,朴素贝叶斯,神经网络),聚类(K-means),频繁挖掘(Apriori,FP 树)</mark>这几个部分的计算题多做几遍,伪代码建议试着自己多写一些。

《数据挖掘概念技术(第三版)》的课后题可以拿来练手。

《数据挖掘概念技术(第三版)》的课后题可以拿来练手。		
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9t 45 15	4号	182.931
1. Please briefly describe the major types of data mining techniques and their corresponding applications. (10 points) 1		
corresponding pros and cons. (6 points) 发来 新自化 (大文写文) 不		
 3. How to overcome overfitting in decision tree? (5 points) 4. An e-mail database is a database that scores a large number of electronic mails messages. It can be viewed as a semi-structured database consisting mainly of text 		
a. (8 points) How can such an e-mail database be structured so as to facilitate multidimensional search, such as by sender, by receiver, by subject, and by time?		
b. (10 points) Suppose you have roughly classified a set of your previous e-mail messages as junk, unimportant, normal, or important. Describe how a data mining system may take this as the training set to automatically classify new e-mail messages or unclassified ones.		
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5. Given a transaction database below, let min_support = 30% and min_confidence =		
70%: P- Vee Spriori 31/2		
Transaction ID Items Bought		
1	{a,b,d}	
2	{b,c,d}	
3	{a,b,d}	
4	$\{a,b,c,d\}$	THE REAL PROPERTY AND ADDRESS OF
5	{b,c,d}	
6	{b,d}	
7	{c,d}	
8	{a,b,c}	
9	(a,0,0)	
	(a,u)	
[10	{b,d}	
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Find all frequent itemsets using FP-growth method. Write up the condition for each item. (15 points) pattern base for each item, and the conditional FP-tree for each item. b. Figure 1 is a BP (Backpropagation) Neural Network. The learning rate l=0.9, the B_{i,a_5} and the every unit is initialized as 0, and the activation $f(x) = \{x, x \ge 1 \}$ a. Given a training record $\{x_1, x_2, z_2\}$ where the input $\{x_1, x_2, z_3\}$ is the iteration are $\{x_1, x_2, z_3\}$ and the weights of the connections in the $\{x_1, x_2, z_3\}$ and the weights of the connections in the $\{x_1, x_2, z_3\}$ where the input $\{x_1, x_2, z_3\}$ (Please give $\{x_1, x_2, z_3\}$) where the input $\{x_1, x_2, z_3\}$ (Please give $\{x_1, x_2, z_3\}$) where the input $\{x_1, x_2, z_3\}$ (Please give $\{x_1, x_2, z_3\}$) where the input $\{x_1, x_2, z_3\}$ (Please give $\{x_1, x_2, z_3\}$) where the input $\{x_1, x_2, z_3\}$ (Please give $\{x_1, x_2, z_3\}$) where the input $\{x_1, x_2, z_3\}$ is the iteration are $\{x_1, x_2, z_3\}$ of the input $\{x_1, x_2, z_3\}$ and the elass label in the $\{x_1, x_2, z_3\}$ is the iteration are $\{x_1, x_2, z_3\}$ and the elass label input $\{x_1, x_2,$ $Err_j = O_j(1 - O_j)(T_j - O_j)$ $Err_j = O_j(1 - O_j) \sum Err_k w_{jk}$ $\theta_j = \theta_j + (l)Err_j$ $W_{ij} = W_{ij} + (1)Err_jO_i$ T2(k)=1 $T_1(k)=1$ $W_{11}(k)=0$ W22(k)=1 W12(k)=2 W21(k)=2 x2=0

Figure 1. Backpropagation Neural Network

7. Table 1 gives a User-Product rating matrix.

