

# 天准大学

### TIANJIN, CHINA

计算数额成集的过程: (minsup = 0.4 ) minconf = 0.0)

令 a1= 方便面, a2=面包、a3=换料、a4=银耳羹、a5=水、a6=蛋糕、● a7=蔬菜根 

	( )	出现收数	支持度	17 AT , VIII	14/2	记收数	支持度	10 C 1 02 = 05	2016年	链线
	$\{a_i\}$	5	1		{a1. a2}	4	0.8	{a,a,a}	WOKOK	,
	{a2}	4	0.8			-	0.8	541,42,457	4	0-8
	{ 03}	1	0.2		$\{\alpha_1, \alpha_5\}$ $\{\alpha_1, \alpha_8\}$	ibi foes	04	{a,a,a,as}	2	0.4
(X)	{ a4}	1	0.2			) 2 (	04	Sa a a.b		21.
	{as}	5	1	=	{a2.a5}	4	0.8	$\{a_1, a_5, a_8\}$	1	0.4
	{a}}	1	0.2		{a, ag}	2	0.4	$\{\alpha_2, \alpha_5, \alpha_8\}$	2	0.4
(X)	{a7}	0.04pp	0.7		{as, as}	)	0.4		B A	
	[as]	2	0.4			(HOCHAN)	1			
(X)	{09}	1	0.2							
X	{0,0}	- 1	0.2							
×	{an}	1	0.2			20-1-0-0		10.00 a.0 EX		

⇒ {a1, a2, a5, a6} 出现次数 好度.

所以频锋顶集有: {a,,a,}, {a,,a,}, {a,,a,}, {a,2,a,}, {a2,a,}, {a3,a,} {a,,a,,as}, {a,,az,as}, {a,,ac,as}, {a,,ac,as}, {a,,az,ac,as}

1、对于{a1, a} (如) 护生 a1>a2, 04>a, 两条规则  $0 \ \text{Af} \ a_1 \Rightarrow a_2$ , conf  $(a_1 \Rightarrow a_2) = 0.8$ , lift =  $\frac{\text{conf}(a_1 \Rightarrow a_2)}{\text{sup}(a_2)} = 1$ 

 $\bigcirc x = 0$ ,  $\bigcirc x = 0$ ,

2. 对 {a1, a5}, 9产生 a1 = a5, a5 = a, 两条规则  $\mathbb{D}$  \$\forall f \alpha\_1 \Rightarrow \alpha\_5, conf (\alpha\_1 \Rightarrow \alpha\_5) = 1, lift = \frac{\conf (\alpha\_1 \Rightarrow \alpha\_5)}{\sup (\alpha\_5)} = 1  $0 \not\equiv 3 \xrightarrow{} 3 \xrightarrow{} 3 \xrightarrow{} 1$ , conf  $(a_s \Rightarrow a_i) = 1$ , lift= conf  $(a_r \Rightarrow a_i) = 1$ 

3.对于{a1,a8},可产生a1与as, a8为a,两系规则

(X) O \$\forall F \alpha\_1 \rightarrow \alpha\_8, conf(\alpha\_1 \rightarrow \alpha\_8) = 04. (if t=1の対3 ag⇒a1. conf(ag⇒a1)= 1, aft=1

```
4.对f{a2,as},可知a2=a5,a5=a,两条规则
       Oxti az = as, conf (az = as)=1, lift=1
       @$\fas=az.conf(as=as)=08, lift=1
 (X) Oxtfaz ⇒ ag conf(az ⇒ ag) = 05, lift=1.25
       ②对于 as ⇒ a2, conf(as > a2) = 1, lift = 1.25
 6. 对于{as,as},可知 as>as,as>as 两条规则
(x) Oxt3 as ⇒ as, conf(as ⇒ as) = 0.4, lift = 1
     @ $ = as > as , conf(as > as) = 1 , lift=1
7.对于\{a_1,a_2,a_5\},可产生a_1\Rightarrow a_2,a_5 ,a_2\Rightarrow a_1,a_5 、a_5\Rightarrow a_1,a_2 、a_1,a_2\Rightarrow a_5 、 a_5\Rightarrow a_1,a_5\Rightarrow a_1
   六条规则
     D 213 600 α1α2 ⇒ α5, conf(a1α2 ⇒ α5)=1, lift=1
     田村 a,as ⇒az, conf (a,as ⇒ax)=08, lift=1
     3 Af a, a, a, conf (a, a, ⇒α,)= 1, lift=1
    Ø対3 a, ⇒ a2as, conf (a, ⇒ a2as)= 08, lift=1
    OAJa_1a_5, conf(a_2)a_1a_5)=1, lift=1
    DAF a_s \Rightarrow a_1 a_2 . conf (a_s \Rightarrow a_1 a_2) = 0.8, lift= 1
8.对于\{a_1,a_2,a_8\},于生a_1 \Rightarrow a_2 a_8,a_2 \Rightarrow a_1 a_8,a_8 \Rightarrow a_1 a_2,a_1 a_8 \Rightarrow a_2,a_2 a_8 \Rightarrow a_1,大条规则
(x) Ostf a, a, ≥ ag, conf(a, a, ≥ ag) = 0.5, lift=1.25
    Odf a,a8>a2, confa, A8>a2)= 1, lift=1-25
    ③对于a2a8=10, conf (a2a8=)a,)= 1, lift=1
    au 田村fa,⇒azas, conf(a,⇒a,as)=0.4, lift=1
(x) (5) 对于02=) a, as, conf(02=) a, as)=0.5, lift=125-
                                                    i. set the last of the all the last
    の対す ag = a,as conf(ag = a,az)= 1, lift=1.25
 9. 对于{a1, a5, a5}, 可产生 a1⇒a5a6, a5→a1a6, a8→a1a5, a1a5→a6, a1a5→a6, a1a5→a6, a5a5→a6, A5积则
(X) OAF a_1a_5 \Rightarrow a_8, conf (a_1a_5 \Rightarrow a_8) = 0.4, lift=1
    の对于a,as⇒as conf(a,as⇒as)= 1, lift=1
   ③对fasas = a, conf(asas = a)=1, lift=1
(N) 对方 a, a asas, conf(a, asas)= 0.4, lift=1
CN (DAJas = a.a.s., conf(as=)a.a.s)=0.4, lift=1
  (D对于 08 ⇒ a, as, conf (a<sub>8</sub> ⇒ a, as)=1, lift=1
```



# 天津大 **Tianjin University**

## 300072 TIANJIN, CHINA

```
10.对于{02,05,08},可产生 02=20508, 05=20208, 08=20205, 0205=208, 0208=205,0508=202 不来规则
             (X) O x = a_2 a_5 \Rightarrow a_8, conf(a_2 a_5 \Rightarrow a_8) = 0.5, lift = 1.25
                            ()对于 a2a8 => a5, conf(a2a8=a5)=1, lift=1
                          望対す asas = az, conf (asas = az)=1, Lift=1.25
          (x)(\theta x + \alpha_2 \Rightarrow \alpha_5 \alpha_8), (onf(\alpha_2 \Rightarrow \alpha_5 \alpha_8) = 0.5), lift=1.25
          (x) 0x33 a_5 \Rightarrow a_2 a_8, conf(a_5 \Rightarrow a_2 a_8)=0.4, lift=1
                        (Dx+7 ag => azas, conf(ag > a, ag)= 1, lift=1.25
      11.对于\{\alpha_1, \alpha_2, \alpha_5, \alpha_8\},可学生 \alpha_1 \Rightarrow \alpha_2 \alpha_5 \alpha_5,\alpha_2 \Rightarrow \alpha_1 \alpha_5 \alpha_6,\alpha_5 \Rightarrow \alpha_1 \alpha_2 \alpha_5,\alpha_1 \alpha_2 \Rightarrow \alpha_5 \alpha_6,\alpha_1 \alpha_2 \Rightarrow \alpha_2 \alpha_5,\alpha_1 \alpha_2 \Rightarrow \alpha_2 \alpha_5,\alpha_2 \Rightarrow \alpha_1 \alpha_2 \alpha_5,\alpha_2 \Rightarrow \alpha_1 \alpha_2 \alpha_5,\alpha_2 \Rightarrow \alpha_1 \alpha_2 \alpha_5,\alpha_1 \alpha_2 \Rightarrow \alpha_2 \alpha_5,\alpha_2 \Rightarrow \alpha_1 \alpha_2 \alpha_5 \alpha_2 \Rightarrow \alpha_2 \alpha_5 \alpha_3 \Rightarrow \alpha_1 \alpha_2 \alpha_5 \alpha_2 \Rightarrow \alpha_2 \alpha_5 \alpha_3 \Rightarrow \alpha_3 \alpha_5 \alpha_4 \Rightarrow \alpha_2 \alpha_5 \alpha_5 \Rightarrow \alpha_1 \alpha_2 \alpha_5 \alpha_5 \Rightarrow
                     (x) 0 \not\exists f a_i a_2 a_5 \Rightarrow a_8, conf(a_i a_2 a_5 \Rightarrow a_8) = 0.5, lift=1.25
                       0 \approx 3 \, \alpha_1 \alpha_2 \alpha_3 \Rightarrow \alpha_5, \alpha_1 = 1 (ift=1
                       Bxff a_1a_5a_8 \Rightarrow a_2, conf(a_1a_5a_8 \Rightarrow a_8) = 1, lift=125
                    \text{GZ} \exists a_s a_s a_e \Rightarrow a_1, conf(a_s a_s a_s \Rightarrow a_1) = 1, (ift=1)
      (x) \emptyset \Rightarrow \alpha_1 \alpha_2 \Rightarrow \alpha_5 \alpha_8, conf (\alpha_1 \alpha_2 \Rightarrow \alpha_5 \alpha_8) = 0.7, Lift=125
      \alpha) \emptyset \beta \neq \alpha, \alpha_s \Rightarrow \alpha_2 \alpha_s, conf (\alpha, \alpha_s \Rightarrow \alpha_2 \alpha_8) = 0.4, lift=1
                D$\fa,as \a≥a2a5, conf(\a,a8 \a≥a2a5)=1, lift=1.25
 (X)(夏村于 azas > a,as, conf( azas > a,as)=0.5. 以十=125
              の対于 a2as ⇒ a,a5, conf(a2as ⇒ a,a5)= 1, liff=1
               ⑥对于 asas ⇒ a,az, conf(asas ⇒ a, az)=1, lift=1.25
(A) (D) x = a_1 a_2 a_3 a_8, conf(a, \Rightarrow a_2 a_3 a_8) = 04, cift=1
(A) 图对于a_s \Rightarrow a_1 a_2 a_8, conf(a_s \Rightarrow a_1 a_2 a_8) = 0.4, cift=1
              倒対fas⇒a,azas, conf(ag⇒a,a,as)=1, Cift=125
```