

Теория принятия решений



Лекция 1. Теория решений.docx

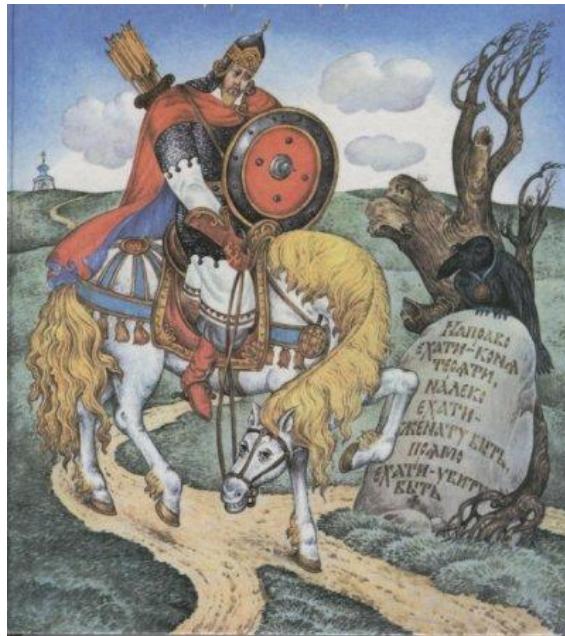
1.

, , , 0 . . , , , , - . , , , .

: . . , , , , , , , , , , .

: , , , , , , , , , .

, , (,), , , , , , , () . , , .



2.

$A \in \mathbf{A}$; $-$, $-$, \cdot ,
 $r \in \mathbf{R}$, A .

$$, \quad , \quad , \quad R \quad A, \quad , \quad , \quad , \quad . \quad a, \quad - \quad , \quad .$$

$$\Omega_-, (\theta \in \Omega, \theta_-, \dots, " ", \dots, \Omega, \theta_-, \dots)$$

$$\therefore r = r(a, \theta).$$

$$I_{cp} = \frac{\int I(r)dr}{\int dr}$$

\vdots [1] \vdots \vdots \vdots

10

5

0.25 ..

$$0.25 * 10 + 0.75 * 0 = 2.5$$

3.
 $\theta_1, \theta_2, \theta_3, \dots, \theta_{10}$

$x \in X$, $f(x|\theta)$, $\theta \in \Omega$

,

$D = \{x\} \subset S$, $A : a = s(x)$, $R(\theta, s) = \int I(\theta, s(x)) f(x | \theta) dx$

:

,

1.

2.

3.

4.

$f(x | \theta)$:

(θ)	$(x = 0)$	$I_1 (x = 1)$	$I_2 (x = 2)$
1	0	0	1
0.75	0.0625	0.375	0.5625
0.5	0.25	0.5	0.25
0.25	0.5625	0.375	0.0625
0	1	0	0

.

(θ)	$(x = 0)$	$I_1 (x = 1)$	$I_2 (x = 2)$
1	5, 10, 10, 10	5, 5, 10, 10	5, 5, 5, 10
0.75	5, 7.5, 7.5, 7.5	5, 5, 7.5, 7.5	5, 5, 5, 7.5
0.5	5, 5, 5, 5	5, 5, 5, 5	5, 5, 5, 5
0.25	5, 2.5, 2.5, 2.5	5, 5, 2.5, 2.5	5, 5, 5, 2.5
0	5, 0, 0, 0	5, 5, 0, 0	5, 5, 5, 0

,

, 0.5, . , . . - .

[1]

[2] , , , . , . []