

Wspomaganie Decyzji Biznesowych

pytania dotyczące ELECTRE Is, ELECTRE TRI i ELECTRE Tri

Jurek Błaszczyński



Institute of Computing Science, Poznań University of Technology,
60-965 Poznań, Poland

Grudzień 2018

Pytanie 1

$C(a, b)$

$f_1 \uparrow$

$a \quad 5$

$$q_1 = 0$$

$b \quad 7$

$$p_1 = 0$$

$$v_1 = 0$$

Pytanie 1

$$C(a, b)$$

$$g_1 \uparrow$$

$$a \quad 5$$

$$b \quad 7$$

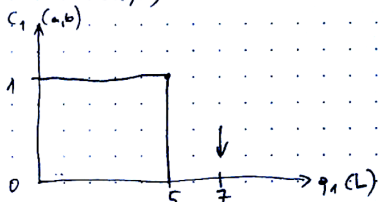
$$q_1 = 0$$

$$p_1 = 0$$

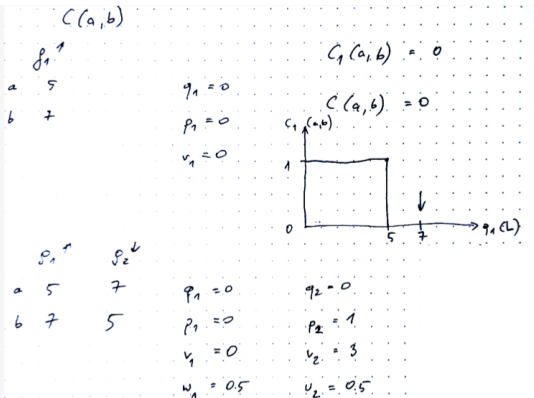
$$v_1 = 0$$

$$C_1(a, b) = 0$$

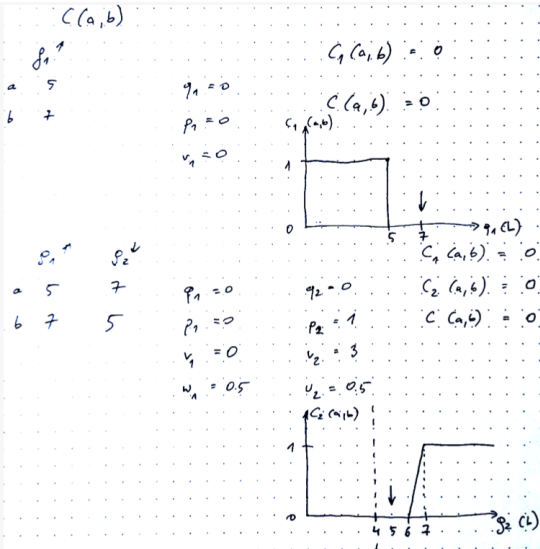
$$C(a, b) = 0$$



Pytanie 2



Pytanie 2



Pytanie 3

5. (a, b)

g_1

a 7

b 5

$$q_1 = 0$$

$$q_2 = 0$$

$$v_1 = 0$$

Pytanie 3

$$\sigma(a, b)$$

$$g_1 \uparrow$$

$$a \quad 7$$

$$b \quad 5$$

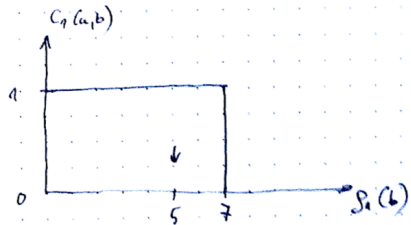
$$q_1 = 0$$

$$q_2 = 0$$

$$v_1 = 0$$

$$\sigma_1(a, b) = 1$$

$$\sigma_1(a, b) = 1$$



Pytanie 4

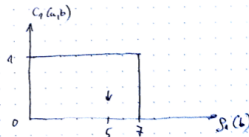
$\sigma(a, b)$

$g_1 \uparrow$
a 7
b 5

$q_1 = 0$
 $p_1 = 0$
 $v_1 = 0$

$\sigma_1(a, b) = 1$

$\sigma_1(a, b) = 1$



$g_1 \uparrow$
a 7
b 5

$g_2 \downarrow$
7
5

$q_1 = 0$
 $p_1 = 0$
 $v_1 = 0$
 $w_1 = 0.7$

$q_2 = 0$
 $p_2 = 1$
 $v_2 = 3$
 $w_2 = 0.3$

Pytanie 4

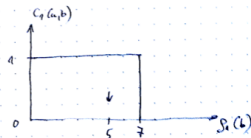
$$\sigma(a, b)$$

$$\begin{array}{l} g_1 \uparrow \\ a \quad 7 \\ b \quad 5 \end{array}$$

$$\begin{array}{l} q_1 = 0 \\ p_2 = 0 \\ v_1 = 0 \end{array}$$

$$\epsilon_1(a, b) = 1$$

$$\bar{\sigma}_1(a, b) = 1$$



$$\begin{array}{l} g_1 \uparrow \\ a \quad 7 \\ b \quad 5 \end{array}$$

$$\begin{array}{l} g_2 \downarrow \\ a \quad 7 \\ b \quad 5 \end{array}$$

$$\begin{array}{l} q_1 = 0 \\ p_1 = 0 \\ v_1 = 0 \\ w_1 = 0.7 \end{array}$$

$$\begin{array}{l} q_2 = 0 \\ p_2 = 1 \\ v_2 = 3 \\ w_2 = 0.3 \end{array}$$

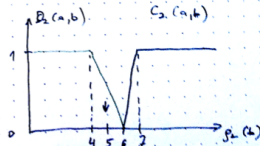
$$C_1(a, b) = 1$$

$$C_2(a, b) = 0$$

$$D_2(a, b) = \frac{1}{2}$$

$$C(a, b) = \frac{0.7 \cdot 1 + 0.3 \cdot 0}{0.7 + 0.3} = 0.7$$

$$\sigma(a, b) = 0.7$$

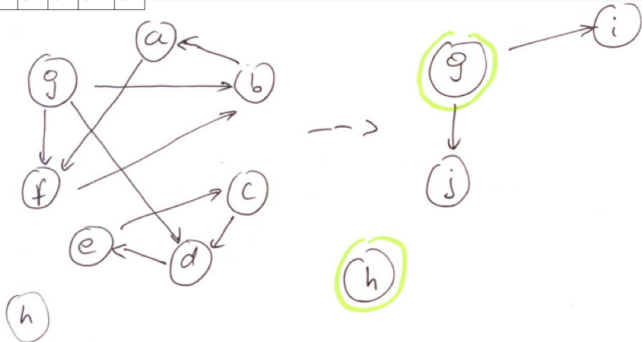


Pytanie 5

<i>S</i>	<i><u>a</u></i>	<i><u>b</u></i>	<i><u>c</u></i>	<i><u>d</u></i>	<i><u>e</u></i>	<i><u>f</u></i>	<i><u>g</u></i>	<i><u>h</u></i>
<i><u>a</u></i>	1	0	0	0	0	1	0	0
<i><u>b</u></i>	1	1	0	0	0	0	0	0
<i><u>c</u></i>	0	0	1	1	0	0	0	0
<i><u>d</u></i>	0	0	0	1	1	0	0	0
<i><u>e</u></i>	0	0	1	0	1	0	0	0
<i><u>f</u></i>	0	1	0	0	0	1	0	0
<i><u>g</u></i>	0	1	0	1	0	1	1	0
<i><u>h</u></i>	0	0	0	0	0	0	0	1

Pytanie 5

<i>S</i>	<u><i>a</i></u>	<u><i>b</i></u>	<u><i>c</i></u>	<u><i>d</i></u>	<u><i>e</i></u>	<u><i>f</i></u>	<u><i>g</i></u>	<u><i>h</i></u>
<u><i>a</i></u>	1	0	0	0	0	1	0	0
<u><i>b</i></u>	1	1	0	0	0	0	0	0
<u><i>c</i></u>	0	0	1	1	0	0	0	0
<u><i>d</i></u>	0	0	0	1	1	0	0	0
<u><i>e</i></u>	0	0	1	0	1	0	0	0
<u><i>f</i></u>	0	1	0	0	0	1	0	0
<u><i>g</i></u>	0	1	0	1	0	1	1	0
<u><i>h</i></u>	0	0	0	0	0	0	0	1



Pytanie 6

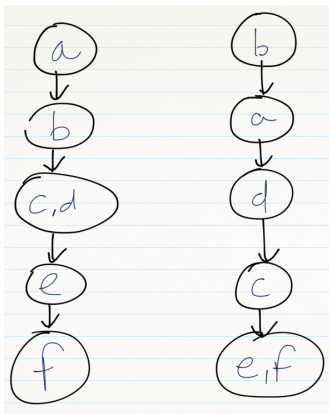
wariant\profil	b_1	b_2	b_3	b_4	OPT	PES
a	γ	γ	γ	$?$		
b	γ	$?$	$?$	$?$		
c	$?$	$?$	γ	γ		
d	γ	1	γ	γ		
e	γ	γ	$?$	γ		
f	γ	$?$	$?$	γ		

Pytanie 6

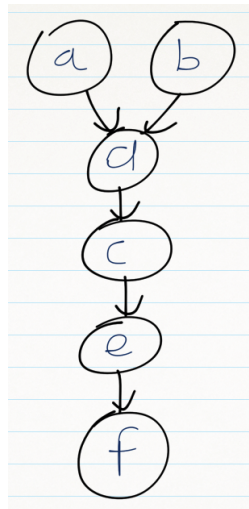
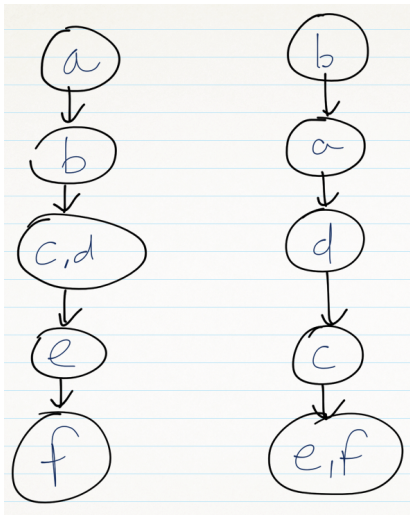
wariant\profil	b_1	b_2	b_3	b_4	OPT	PES
a	γ	γ	γ	?	5	4
b	γ	?	?	?	5	2
c	?	?	γ	γ	3	1
d	γ	1	γ	γ	3	3
e	γ	γ	?	γ	4	3
f	γ	?	?	γ	4	2

Pytanie 7

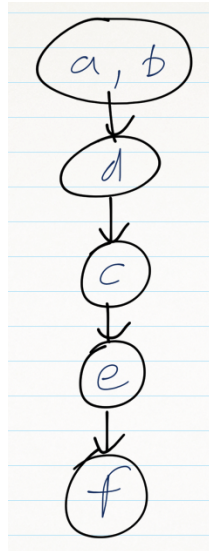
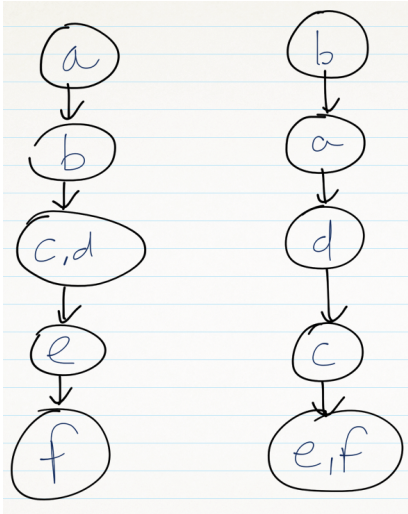
Biorąc pod uwagę poniższe dwa porządki - odpowiednio - porządek zstępujący $P \downarrow$ i porządek wstępujący $P \uparrow$ podaj rankingi końcowe: częściowy i medianowy



Pytanie 7

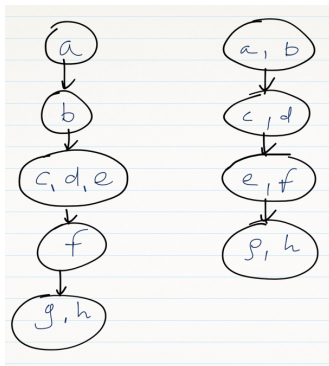


Pytanie 7



Pytanie 8

Biorąc pod uwagę poniższe dwa porządki - odpowiednio - porządek zstępujący $P \downarrow$ i porządek wstępujący $P \uparrow$ podaj rankingi końcowe: częściowy i medianowy



Pytanie 8

