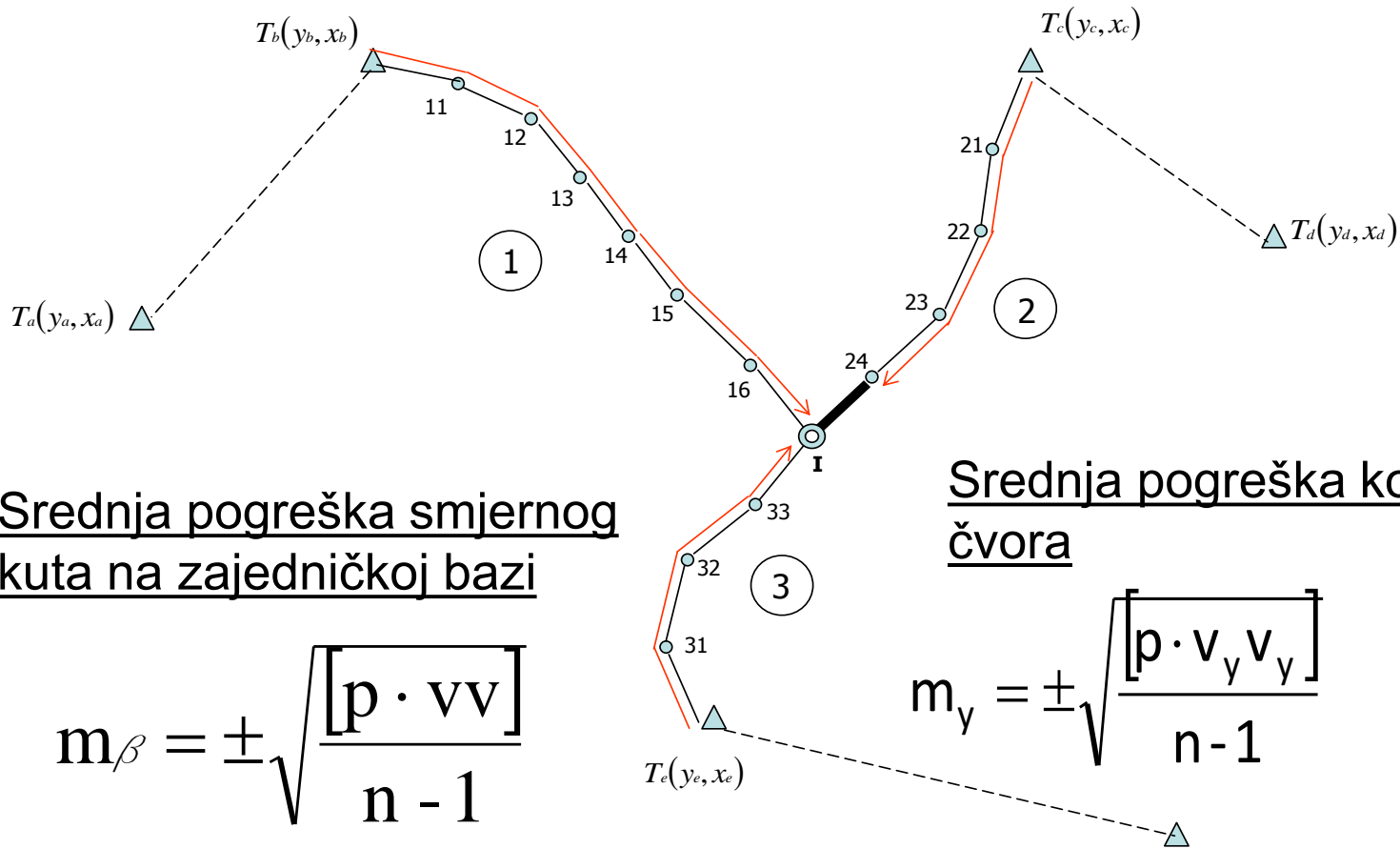


OCJENA TOČNOSTI

ČVORNA TOČKA POLIGONSKOG VLAKA

Tomislav Sliepčević

Ocjena točnosti



Srednja pogreška smjernog kuta na zajedničkoj bazi

$$m_{\beta} = \pm \sqrt{\frac{[p \cdot vv]}{n-1}}$$

$$M_{\nu} = \pm \frac{m_{\beta}}{\sqrt{[p]}}$$

Srednja pogreška koordinata čvora

$$m_y = \pm \sqrt{\frac{[p \cdot v_y v_y]}{n-1}}$$

$$M_y = \pm \frac{m_y}{\sqrt{[p]}}$$

$$m_x = \pm \sqrt{\frac{[p \cdot v_x v_x]}{n-1}}$$

$$M_x = \pm \frac{m_x}{\sqrt{[p]}}$$

Srednja pogreška smjernog
kuta na zajedničkoj bazi

$$m_{\beta} = \pm \sqrt{\frac{[p \cdot vv]}{n - 1}} = \sqrt{\frac{148.5}{2}} = 9''$$

$$M_{\nu} = \pm \frac{m_{\beta}}{\sqrt{[p]}} = \pm \frac{9}{\sqrt{0.525}} = 12''$$

2. RAČUNANJE KOORDINATE

POČETNA TOČKA VLAKA	BROJ VLAKA	KOORDINATE DATIH TOČKA I ZBROJ KOORD. RAZLIKA		KOORDINATE		KATEGORIJA [d] km	$p = \frac{1}{\Delta^2}$	$f_y =$	$f_x =$	$p \cdot f_y'$	$p \cdot f_x'$	$f_y =$	$f_x =$	$p \cdot f_y$	$p \cdot f_x$
		Y_p [$\Delta y'$]	X_p [$\Delta x'$]	$Y' = Y_p + [\Delta y']$ Y_o $Y = Y_o + \delta y$	$X' = X_p + [\Delta x']$ X_o $X = X_o + \delta x$			$Y' - Y_o$ cm	$X' - X_o$ cm	cm	cm	cm	cm	cm	cm
T _a	1	45123.45	22325.75	42068.65	22065.58	I 980.40	7.91	11	12	87.01	94.92	-2	-6	-15.8	-47.5
		945.20	-260.17												
T _c	2	42349.46	22456.26	42068.54	22065.52	II 481.24	11.64	0	6	0	69.84	9	0	104.8	0
		-280.92	-390.74												
T _e	3	41866.48	21724.68	42068.72	22065.46	III 396.27	8.76	18	0	157.68	0	-9	6	-78.8	52.6
		202.24	340.78												
		$\delta y = \frac{[p \cdot f_y']}{[p]}; \delta x = \frac{[p \cdot f_x']}{[p]}$		42068.54 0.11 42068.65	22065.46 0.09 22065.55		28.21			244.7	164.8			10.1	5.1

Srednja pogreška koordinata
čvora

$$m_y = \pm \sqrt{\frac{[p \cdot v_y v_y]}{n-1}} = \pm 0.29 \quad m_x = \pm \sqrt{\frac{[p \cdot v_x v_x]}{n-1}} = \pm 0.17$$

$$M_y = \pm \frac{m_y}{\sqrt{[p]}} = \pm 0.05 \quad M_x = \pm \frac{m_x}{\sqrt{[p]}} = \pm 0.03$$

Ocjena točnosti

