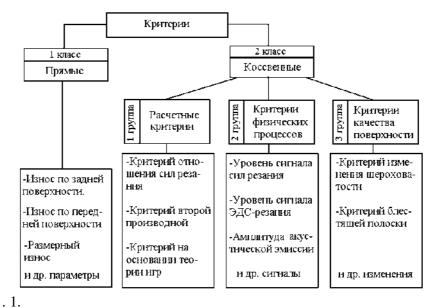
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, vadim.medvedev@ua.fm) 1. 2. 1. Критерии 2 класс 1 класе Коссвенные Прямые



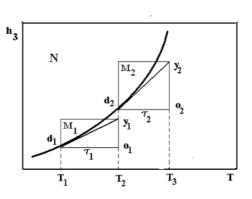
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1 2 , 1 $\frac{P_z}{P_x}; \frac{P_z}{P_y}; \frac{P_z}{\sqrt{P_x^2 + P_y^2}}$, 1 [1]. [2]. [3]. $h_{3}' = f(T, h_{3}, V, U),$, h_{3}' h₃ - V - U - $\{h_3,T\}$ 1. N V_i , h_3 . $V_i = \left(t_i, s_i, u_i\right)$ Ud Uτ d τ. τ

154

 h_3 ,

Т . 2.



γ:

m

$$\gamma = f(h_3 \big[T_d \, \big] V \big[T_d \, \big] U \big[T_d \, \big] T_0 \leq T_d \leq T) \,.$$

 $(t_0 \le t < \tau)$ N. М, $\{t, h_3[t]\} \in N$, $\{t, h_3[t]\} \in M$,

> d, τ: $\{t,h_3[t]\} \in N \;, \quad \ \{t,h_3[t]\} \not\in M \;,$

 $h_3''(T_d)$ -

m,

d.

 $m = \frac{y_2 - y_1}{d_2 - d_1}.$

 $-\infty \le m \le +\infty$. m

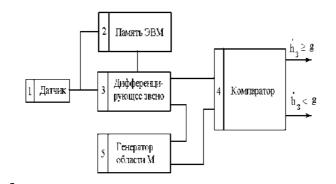
1. m,

m=0. $\Delta y_1 = \Delta y_2$.

m

	1. ,		111	
	m<0	m = 0	m = 1	m>0
	$y_2 - y_1 < 0$ $d_2 - d_1 > 0$ -	$y_2 - y_1 = 0$ $d_2 - d_1 > 0$	$y_2 - y_1 = d_2 - d_1$ $y_2 - y_1 < 0$ $d_2 - d_1 < 0$	$y_2 - y_1 < 0$ $d_2 - d_1 > 0$
1		-		
2	$y_2 - y_1 > 0$ $d_2 - d_1 < 0$ -	$y_2 - y_1 = 0$ $d_2 - d_1 < 0$	$y_2 - y_1 = d_2 - d_1$ $y_2 - y_1 > 0$ $d_2 - d_1 > 0$	$y_2 - y_1 < 0$ $d_2 - d_1 > 0$

3.



. 3.

1

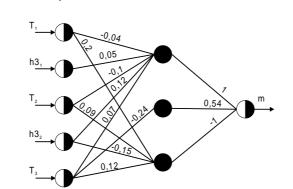
2. 3 4.

, 5%.

, [4], ... ,

h3 h3

, 5. -



. 5.

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(). , -

OPA404AG, -

1 62. 20, 40 45, 5 10 45. 15 6, -600 4. 90-95%. **3.** . 1. Albert M. Monitoring systems of rigs // Modern Machine Shop – 2009. – 12. – .61-68. **2.** Fili W. The supervisory control of edge tools // Werkstatt + Betrieb - 2009. - 12. - .54-55. **3.** , 1974. - 456 . **4.** . – 1985. – , 2007. – . 117-122. 22.06.2010 .

DEVELOPMENT AND STUDY OF THE CUTTING TOOL CONDITION DIAGNOSTICS CRITERION, WHICH IS INVARIANT TOWARDS CUTTING MODES

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In work the analysis of existing criterions of an evaluation of a condition of the cutting tool is conducted. Their classification is conducted. The criterion, invariant to modes of cutting is developed. The measure is inferred on the basis of the assaying of existing measure of diagnostic of an edge tool. Build-up of the device track ring pointed measure, bolted on discrete devices is offered. It considerably raises reliability of its operation. The device circuit diagrammed represents a tuned artificial neural net without tutoring function.

Key words: diagnostics, tools wear, artificial neuronet.

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