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(72) 12309 49

12309 4 48 1187

12309 3 281187

(74)

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(54)

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105 : 110 :

120 : 130

140 : 150 :

160 : 170 :

가

가 .

strategy)

,
(dynamic behavior)

ags),
,
,
(range limits)
(differentiate)
(fuel cell rate)
(classify)

amic filter)(150), , (100) (105), (dyn
 (160), (170) (110), (120), (130), (150) (residual computer)
 (140) . , (105)
 (110) . (dif
 ferentiator)(120) , (130)

, (residual computer)(160)
 hold comparator)(170) (residual thres
 (180) (195) (140)
 (105) (flowing fuel material), (flowing oxidizer material)
 , (105), , (105), (discrete-time rank filters
) (innovation)
 , (Wiener filters), (Luenberger observers)
 , (differentiating)' AC (AC coupled filtering and ba
 ckward differencing) (time derivative)
 , (105) 가 0 0
 (1) , , $S = V_1 - V_2$, $S, V_1, V_2 \in \Re$,
 , \Re
 (2) , , $S = P - VT$, $P, V, I \in \Re$
 ,
 $S = \frac{dx}{dt} - Ax - Bu$,
 $x \in \Re^n$, $A \in \Re^{n \times n}$, $B \in \Re^{n \times m}$
 () 가) , $u \in \Re^m$ () 가)
 (3) ,
 $S = Cz - y$
 $\frac{dz}{dt} = Az + Bu + H(Cz - y)$
 $y = Cx$
 $\frac{dx}{dt} = Ax + Bu$
 $z \in \Re^n$, $y \in \Re^p$, $x \in \Re^n$, $H \in \Re^{n \times p}$
 가) , $C \in \Re^{p \times n}$
 (130) 가 (170) 가 , , ,
 (possibly vector-valued) (110),

, , , , , , 가

(105)

가

(57)

1.

plurality of range flags) (a plurality of range limits) , (fuel cell rates) ,

2.

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(residual statistic),

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6.

(105),

(105)

(110),

(120),

(130),

(140)

(100).

7.

6

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8.

6

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(105)
(150)

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(160) ,

(170) ,

10.

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(120) ,

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(170) ,

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(140)

(100).

