
2018

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2018

Florida 2002

2019/4.

1. 变量设定

$$E = \frac{\sum l_i}{\sum L_i} / \frac{L_i}{\sum L_i}$$

$$l_i \quad L_i$$

$$\sum l_i \quad \sum L_i$$

1

CRITIC

$$H_j = \sum W_j DIV_j \quad W_j \quad DIV_j = \frac{1}{\sum_i \left(\frac{L_{ij}}{L_j} \right)^2}$$

H_j

TI

2016

1 cpi

2

s

3

tr t

2. 数据来源与描述性统计

2004 —2017

GB/T 4754-2011

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19

变量	样本量	均值	标准差	最小值	最大值
<i>E</i>	434	1.092	0.667	0.3654	5.403
<i>H</i>	434	7.022	1.463	2.851	12.321
<i>TI</i>	434	11.176	3.178	3.990	26
<i>cpi</i>	434	102.788	1.879	97.650	110.090
<i>s</i>	434	40850.59	21355.040	11855	131700
<i>tr</i>	432	314.319	331.852	7.070	1929.550
<i>t</i>	432	68606.840	76245.970	14.270	455837.900

3. 计量方法选择与模型设定

Lazzeretti 2010

$$y = \alpha X_1^{\beta_1} X_2^{\beta_2} \dots X_k^{\beta_k}$$

y

X_k

$$E = \alpha + \beta_1 H + \beta_2 cpi + \beta_3 \ln(s) + \beta_4 \ln(tr) + \beta_5 \ln(t) + \mu$$

E

H cpi s t tr

μ

Hausman

2

2

变量	模型一	模型二	模型三	模型四	模型五	模型六	模型七
	<i>E</i>	<i>E</i>	<i>E</i>	<i>E</i>	<i>E</i>	<i>E</i>	<i>TI</i>
<i>H</i>	-0.044*** (0.009)	-0.043*** (0.009)	-0.012 (0.009)	-0.012 (0.009)	-0.018* (0.010)	-0.011 (0.008)	0.382*** (0.119)
<i>cpi</i>		0.002 (0.004)	-0.004 (0.004)	0 (0.004)	0.005 (0.010)	-0.001 (0.003)	
<i>ls</i>			-0.164*** (0.015)	-0.456*** (0.066)	-0.06 (0.081)	-0.473*** (0.064)	
<i>ltr</i>				0.215*** (0.047)	0.541*** (0.060)	0.168*** (0.046)	
<i>lt</i>					0.059*** (0.019)	0.035** (0.019)	
<i>TI</i>						0.022*** (0.004)	
时间 常数项	控制 1.403*** (0.065)	控制 1.178*** (0.454)	控制 3.331*** (0.449)	控制 4.881*** (0.554)	控制 -2.729* (1.446)	控制 -2.661* (1.416)	控制 8.490*** (0.842)
样本量	434	434	434	434	432	432	434
R ²	0.054	0.054	0.264	0.3	0.418	0.443	0.025

注：“***、**、*”分别表示1%、5%、10%显著性水平下显著，括号内是标准差。结果保留三位小数。

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-0.044

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-0.164

Florida 2002

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-0.003 -0.032

1%

$$CR_7 = \frac{\sum_{i=1}^7 l_i}{\sum_{i=1}^7 L_i} l_i L_i$$

7

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变量	模型十二 CR_7	模型十三 CR_7	模型十四 CR_7	模型十五 CR_7	模型十六 CR_7
<i>H</i>	0.001** -0.001	0.001* -0.001	-0.002*** 0	-0.002*** 0	-0.002*** 0
<i>cpi</i>		-0.001*** 0	-0.000** 0	-0.000** 0	-0.000** 0
<i>ls</i>			0.014*** -0.001	0.023*** -0.003	0.022*** -0.003
<i>ltr</i>				-0.007*** -0.002	-0.007*** -0.002
<i>lt</i>					0.002 -0.001
常数项	0.046*** -0.004	0.143*** -0.027	-0.039* -0.022	-0.089*** -0.028	-0.096*** -0.028
样本量	434	434	434	434	432
R ²	0.016	0.047	0.474	0.484	0.486

注：“***、**、*”分别表示1%、5%、10%显著性水平下显著，括号内是标准差。结果保留三位小数。

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9. 2018
10. 2018 6
11. 2015 55
12. 2014 4
13. 2018 5
14. 2010 3
15. 2014 2
16. 2003 5
17. 2017 20

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