附 录

正文未报告部分

一、Stata10 主要程序

1.以 int 为门槛变量的程序

xtptm te urb tra gov ipr rd mar, rx(int) thrvar(int) iters(300) regime(3)

2.以 fin 为门槛变量的程序

xtptm te urb tra gov ipr rd mar, rx(int) thrvar(fin) iters(300) regime(3)

3.以 hc 为门槛变量的程序

xtptm te urb tra gov ipr rd mar, rx(int) thrvar(hc) iters(300) regime(3)

4.以 stu 为门槛变量的程序

xtptm te urb tra gov ipr rd mar, rx(int) thrvar(stu) iters(300) regime(3)

5.以企业创新效率为被解释变量的门槛程序

xtptm fte urb tra gov ipr rd mar, rx(int) thrvar(int) iters(300) regime(3)

二、Frontier 4.1 主要程序

1.区域创新效率

```
1                   1=ERROR COMPONENTS MODEL, 2=TE EFFECTS MODEL
te-dta.txt              DATA FILE NAME
te-out.txt              OUTPUT FILE NAME
1                       1=PRODUCTION FUNCTION, 2=COST FUNCTION
y                       LOGGED DEPENDENT VARIABLE (Y/N)
30                      NUMBER OF CROSS-SECTIONS
12                      NUMBER OF TIME PERIODS
360                     NUMBER OF OBSERVATIONS IN TOTAL
5                       NUMBER OF REGRESSOR VARIABLES (Xs)
y                       MU (Y/N) [OR DELTA0 (Y/N) IF USING TE EFFECTS MODEL]
y                       ETA (Y/N) [OR NUMBER OF TE EFFECTS REGRESSORS (Zs)]
n                       STARTING VALUES (Y/N)
                         IF YES THEN        BETA0
                                             BETA1 TO
                                             BETAK
                                             SIGMA SQUARED
                                             GAMMA
                                             MU                  [OR DELTA0
                                             ETA                     DELTA1 TO
                                                                        DELTAP]

                                             NOTE: IF YOU ARE SUPPLYING STARTING VALUES
                                             AND YOU HAVE RESTRICTED MU [OR DELTA0] TO BE
                                             ZERO THEN YOU SHOULD NOT SUPPLY A STARTING
                                             VALUE FOR THIS PARAMETER.
```

2. 区域企业创新效率

```
1                 1=ERROR COMPONENTS MODEL, 2=TE EFFECTS MODEL
fte-dta.txt          DATA FILE NAME
fte-out.txt          OUTPUT FILE NAME
1                  1=PRODUCTION FUNCTION, 2=COST FUNCTION
y                  LOGGED DEPENDENT VARIABLE (Y/N)
30                 NUMBER OF CROSS-SECTIONS
12                NUMBER OF TIME PERIODS
360               NUMBER OF OBSERVATIONS IN TOTAL
5                 NUMBER OF REGRESSOR VARIABLES (Xs)
y                MU (Y/N) [OR DELTA0 (Y/N) IF USING TE EFFECTS MODEL]
y                ETA (Y/N) [OR NUMBER OF TE EFFECTS REGRESSORS (Zs)]
n                 STARTING VALUES (Y/N)
                   IF YES THEN        BETA0
                                       BETA1 TO
                                       BETAK
                                       SIGMA SQUARED
                                       GAMMA
                                       MU                    [OR DELTA0
                                       ETA                        DELTA1 TO
                                                                     DELTAP]

                                       NOTE: IF YOU ARE SUPPLYING STARTING VALUES
                                       AND YOU HAVE RESTRICTED MU [OR DELTA0] TO BE
                                       ZERO THEN YOU SHOULD NOT SUPPLY A STARTING
                                       VALUE FOR THIS PARAMETER.
```

3. 区域高校创新效率

```
1                 1=ERROR COMPONENTS MODEL, 2=TE EFFECTS MODEL
cte-dta.txt          DATA FILE NAME
cte-out.txt          OUTPUT FILE NAME
1                  1=PRODUCTION FUNCTION, 2=COST FUNCTION
y                  LOGGED DEPENDENT VARIABLE (Y/N)
30                 NUMBER OF CROSS-SECTIONS
12                NUMBER OF TIME PERIODS
360               NUMBER OF OBSERVATIONS IN TOTAL
5                 NUMBER OF REGRESSOR VARIABLES (Xs)
y                MU (Y/N) [OR DELTA0 (Y/N) IF USING TE EFFECTS MODEL]
y                ETA (Y/N) [OR NUMBER OF TE EFFECTS REGRESSORS (Zs)]
n                 STARTING VALUES (Y/N)
                   IF YES THEN        BETA0
                                       BETA1 TO
                                       BETAK
                                       SIGMA SQUARED
```

```
                                        GAMMA
                                        MU                  [OR DELTA0
                                        ETA                     DELTA1 TO
                                                                  DELTAP]

                                        NOTE: IF YOU ARE SUPPLYING STARTING VALUES
                                        AND YOU HAVE RESTRICTED MU [OR DELTA0] TO BE
                                        ZERO THEN YOU SHOULD NOT SUPPLY A STARTING
                                        VALUE FOR THIS PARAMETER.
```

4. 区域科研机构创新效率

```
1                 1=ERROR COMPONENTS MODEL, 2=TE EFFECTS MODEL
ite-dta.txt          DATA FILE NAME
ite-out.txt          OUTPUT FILE NAME
1                   1=PRODUCTION FUNCTION, 2=COST FUNCTION
y                   LOGGED DEPENDENT VARIABLE (Y/N)
30                  NUMBER OF CROSS-SECTIONS
9                 NUMBER OF TIME PERIODS
270                 NUMBER OF OBSERVATIONS IN TOTAL
5                   NUMBER OF REGRESSOR VARIABLES (Xs)
y                 MU (Y/N) [OR DELTA0 (Y/N) IF USING TE EFFECTS MODEL]
y                 ETA (Y/N) [OR NUMBER OF TE EFFECTS REGRESSORS (Zs)]
n                   STARTING VALUES (Y/N)
                    IF YES THEN       BETA0
                                        BETA1 TO
                                        BETAK
                                        SIGMA SQUARED
                                        GAMMA
                                        MU                  [OR DELTA0
                                        ETA                     DELTA1 TO
                                                                  DELTAP]

                                        NOTE: IF YOU ARE SUPPLYING STARTING VALUES
                                        AND YOU HAVE RESTRICTED MU [OR DELTA0] TO BE
                                        ZERO THEN YOU SHOULD NOT SUPPLY A STARTING
                                        VALUE FOR THIS PARAMETER.
```

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参考文献引用范例：

[1] 朱军. 技术吸收、政府推动与中国全要素生产率提升[J].中国工业经济.2017,(1):5-24.

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