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1.2	6
1.3	7
1.3.1	7
1.3.2	10
1.4	11
2	13
2.1	13
2.2	21
2.2.1	(Data Envelopment Analysis) - μ (Free Disposal Hull)21
2.2.2	(Stochastic Frontier Approach).....25
2.2.3	(Thick Frontier Approach)26
2.2.4	μ (Distribution Free Approach).....26
3	28
3.1	28
3.1.1	μ Farrell42
3.1.2	μ Farrell
3.1.3	CCR DEA μ44
3.1.4	μ Farrell μ46
3.1.5	« » μ VRS – The treatment of VRS 47
3.1.6	μ μ – The overall method..... 48
	– Generalizing to multiple outputs..... 50
4	52
4.1	52
4.2	μ52
4.2.1	μ53
4.2.2	μ μ63
4.3	μ65
4.3.1	-67
4.4	μ DEA72
4.5	μ μ82
4.6	μ Diamond.....84
5	86
5.1	μ μ86
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μ	93

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CCR μ μ μ μ
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Journal of political Economy Econometrica
Quarterly Journal of Economics. μ μ μ μ
 μ “Nadaraya – Watson” μ .

ABSTRACT

The evaluation of efficiency of the economic journals and the ranking of them, attracts the intense interest of researchers. In this research is used a non-parametric method, known as Data Envelopment Analysis (DEA) to assess the efficiencies. Specifically it is used an input oriented CCR model with constant returns of scale and then follows the ranking of the economic journals based on the efficiencies. According to the results, the more efficient journals are “Political Economy”, “Econometrica” and “Quarterly Journal of Economics”. Finally, we use the non-parametric regression “Nadaraya – Watson” in order to interpret the efficiencies.

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JEL: A10 ; C14 ; C67

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Rosvall and Bergstrom, 2008, Klavans and Boyack, 2009a, Leydesdorff and Rafols, 2009 and De-Moya Anegón *et al.* 2008).

Liebowitz and Palmer (1984) , Laband and Piette (1994), Kalaitzidakis, Mamuneas and Stengos (2003), Palacio-Huerta and Volij (2004), Liner and Amin (2006), Kodrzycki and Yu (2006), Kóczy and Strobel (2007) and Ritzberger (2008).

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Judit- Bar-Ilan, (2010), μ ,

Google Scholar, Web-Science Scopus,

: Introduction to Infometrics (Egghe L., and R. Rousseau). μ

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² Scholar Google, μ ,

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 «operation research management journals». μ μ μ

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Sumsion *et al.* (2008), μ

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Kalaitzidakis et al μ 2003,

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Kodrzycki, Y.K. and P. Yu, (2006), μ

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 : Applied Stochastic Models in Business and Industry, Communications in Statistics,
 Theory and Methods, Computational Statistics and Data Analysis, Computational Statistics, Journal of
 Forecasting, Journal of Statistical Computation and Simulation, Journal of Statistical Planning and Inference,
 Journal of the American Statistical Association, Journal of Time Series Analysis, International Journal of
 Manpower, Population and Development Review, Regional Studies, Statistics and Stochastic Analysis and
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⁵ Comitee for Research Monitoring

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et al. (2003), 1987. Katerattanakul 5868 27 1995-1998.

(computing journals) : MISQ, ISR, CACM, JACM, IEEESE. E Linton Thongpapanl (2004) 10

Liebowitz Palmer (1984), « » 1980.

McKenzie (1978). Laband Piette, (1994) Liebowitz Palmer, 1965-1969

50 , 1965-1969 IEA⁶ Social Science Citation Index. ⁷.

Liebowitz Palmer (1984), 1970-1990

⁶ : Canadian Journal of Economics, Applied Economics, Journal of Financial and Quantative Analysis, Journal of Transport Economics and Policy, Journal of Economic Issues, Journal of Human Resources and the Journal of Economic Theory.

⁷ : Accounting Review, American Historical Review, American Political Science Review, American Statistician, Foreign Affairs, Management Accounting, Michigan Academician.

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2.2.2 *(SFA Stochastic Frontier Approach)*

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 SFA TFA «intuitively appealing» μ μ
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 . (Bauer *et al.*, 1998).
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3.1 μ

. Charnes *et al.* (1978) Farrell (1957)

$$maxh_0 = \frac{\sum_{r=1}^s u_r \cdot y_{r0}}{\sum_{i=1}^m u_i \cdot x_{i0}} \quad (1)$$

28

$$\begin{aligned}
& y_{ij}, x_{ij} \text{ (} \\
& u_r, u_i \quad \mu \quad \mu \\
& \mu \quad . \quad \mu \quad \mu \quad , \quad \mu \\
& \mu \quad . \quad \mu \quad \mu \\
& \text{ (} \quad \mu \text{)}, \\
& \mu \quad \text{“0”}. \quad \mu \quad \mu \\
& \mu \quad \mu \quad . \\
& \mu \quad x_{ij} \quad y_{rj} \text{ ,} \quad , \\
& \mu \quad \mu \\
& . \quad , \mu \quad \mu \quad \mu \quad \mu \quad \mu \quad \mu \quad \mu \\
& \mu \quad , \quad \mu \quad . \\
& (1), \quad E_r \\
& x \quad \mu \quad (1): \\
& \max h_0 = \frac{uy_0}{ux_0} \\
& \mu \quad : \\
& \frac{uy_R}{ux_R} \leq 1 \\
& \frac{uy_r}{ux_r} \leq 1 \\
& u, v \geq 0 \\
& r = 0 \quad \mu \quad \mu \quad . \\
& u^*, v^* \quad \mu \quad \mu \quad y_{E \geq y_r} \\
& x_R = x_r = x \text{ ,} \quad u^* y_R = v^* x_B \quad \mu \quad x_0 = x \text{ ,} \\
& E_r = y_r / y_B \text{ .} \quad \mu \quad \mu \\
& , \mu \quad \mu \quad \mu \quad \mu \quad \ll \quad \gg \\
& \mu \quad . \quad \mu \quad ,
\end{aligned}$$

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 μ μ , μ μ μ $j(n)$
 μ μ $i(m)$ $r(s)$.

$$\min f_0 = \frac{\sum_{i=1}^m u_i \cdot x_{i0}}{\sum_{r=1}^s u_r \cdot y_{r0}} \quad (2)$$

μ :

$$\frac{\sum_{i=1}^m u_i \cdot x_{ij}}{\sum_{r=1}^s u_r \cdot y_{rj}} \geq 1, \quad j=1, \dots, n, \quad u_r, u_i \geq 0.$$

$$\begin{aligned}
 &\mu \quad \mu\mu \quad \mu\mu \quad \mu \quad \mu \quad \mu \\
 &\mu \quad \mu\mu \quad \mu\mu \quad \mu \quad : \\
 &\max z_0 \quad (3)
 \end{aligned}$$

μ :

$$-\sum_{j=1}^n y_{rj} \cdot x_j + y_{r0} \cdot z_0 \leq 0, \quad r=1, \dots, s,$$

$$\sum_{j=1}^n x_{ij} \cdot x_j \leq x_{i0}, \quad i=1, \dots, m, \quad x_j \geq 0, \quad j=1, \dots, n.$$

$$(3) \quad \mu \quad \mu \mu \quad \mu \mu \quad \mu, \mu$$

$$\mu :$$

$$ming_0 = \sum_{i=1}^m x_{i0} \quad (4)$$

$$\mu :$$

$$-\sum_{r=1}^s \mu_r \cdot y_{rj} + \sum_{i=1}^m x_{ij} \geq 0,$$

$$\sum_{r=1}^s \mu_r \cdot y_{r0} = 1, \quad \mu_r, x_{ij} \geq 0$$

$$\mu \quad \mu \quad (4)$$

$$\mu \quad \mu \mu \quad - \quad \mu$$

$$\mu \mu \quad \mu \quad ,$$

$$\mu \quad \mu :$$

$$x_i = t u_i, \quad i=1, \dots, m,$$

$$\mu_r = t u_r, \quad r=1, \dots, s,$$

$$t^{-1} = \sum_r u_r \cdot y_{r0},$$

$$t > 0 \quad \mu :$$

$$minf_0 = \frac{\sum_{i=1}^m u_i \cdot x_{i0}}{\sum_{r=1}^s u_r \cdot y_{r0}} \quad (5)$$

$$\mu :$$

$$\sum_{i=1}^m u_i \cdot x_{ij} - \sum_{r=1}^s u_r \cdot y_{rj} \geq 0, \quad j=1, \dots, n, \quad u_i, u_r \geq 0,$$

$$\begin{aligned} & \mu_i \quad \mu_i \quad \mu_i \quad \mu_i \quad (4). \quad (5) \quad \mu_i \quad (2). \quad , \\ & \mu_i \quad \mu_i \quad \mu_i \quad \mu_i \quad (4) \quad (5) \\ & (2) \quad (1). \end{aligned}$$

$$\begin{aligned} & \mu_i \quad \mu_i - \mu_i \quad (\mu_i - \mu_i) \quad \mu_i \quad , \\ & \mu_i \quad \mu_i \quad , \quad (4), \quad \mu_i \quad \mu_i \quad f_0 \quad h_0 \\ & \mu_i \quad u_i, u_r \geq 0. \end{aligned}$$

$$\begin{aligned} & \mu_i \quad : \\ & f_0 = g_0 = z_0 \quad (6) \end{aligned}$$

$$\begin{aligned} & : \\ & h_0 = \frac{1}{z_0}. \quad (7) \end{aligned}$$

$$\begin{aligned} & , \quad \mu_i \quad \mu_i \quad \mu_i \quad . \quad \mu_i \\ & \mu_i \quad (4) \quad (3) \quad f_0 > 1 \\ & h_0 < 1, \mu_i \quad \mu_i \end{aligned}$$

$$f_0 = h_0 = 1. \quad (8)$$

$$\begin{aligned} & , \quad \text{Charnes } et \text{ al. (1978)} \quad \mu_i \quad (\text{slack} \\ & \text{variables}) \quad . \quad \mu_i - \mu_i : \end{aligned}$$

$$P_j = \begin{pmatrix} Y_j \\ X_j \end{pmatrix}, \quad (9)$$

$$j=1, \dots, n,$$

$$\begin{aligned} & Y_j \quad \mu_i \quad \mu_i \quad y_{rj}, \quad r=1, \dots, s \\ & X_j \quad \mu_i \quad \mu_i \quad x_{ij}, \quad i=1, \dots, m. \\ & \mu_i \quad (3) \quad \mu_i \quad \mu_i : \end{aligned}$$

$$max z_0 \quad (10)$$

$$\mu_i :$$

$$\sum_{j=1}^n X_j \cdot j \leq X_0,$$

$$x_j \geq 0, \quad j=1, \dots, n.$$

$$\begin{array}{ccccccc} & & \mu & \mu & & \mu & \mu \\ : & & & & & & \end{array}$$

$$z_0, s^{*+}, s^{*-}, j, \quad (11)$$

$$\begin{array}{ccccccc}
j=1, \dots, n, & & & & & & \\
s^{*+} & & \mu & \mu^- & & \mu & \\
\mu & & & s^{*-} & & \mu & \mu^- \\
\mu & & \mu & & & & z_0 > 1 \\
\mu & (6) - (8) & & & & &
\end{array}$$

$$\begin{aligned}
\mu &: s^{*+}, \\
\mu &, \\
\mu &\mu_j \mu \cdot \mu, \\
s^{*-} &, \mu X_0 \\
X_0 - s^{*-} &, \\
(\mu) &\mu \mu z_0^* = 1. \mu (1) (2) \\
\mu &\mu \\
\mu \mu &\mu \\
, \mu &\mu
\end{aligned}$$

$$\begin{aligned} \text{i.} \quad & z_0^* = 1 \\ \text{ii.} \quad & \mu \quad \mu \quad . \end{aligned} \quad (12)$$

(10)

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μ (*varied problem*)

$$(11) \mu$$

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$$\mu \quad (13)$$

μ

(13). $\mu :$

$$-\sum_{j=1}^n Y_j \cdot \hat{z}_j^* + Y_0 \cdot \hat{z}_0^* \cdot z_0^* \leq -\sum_{j=1}^n Y_j \cdot \hat{z}_j^* + (Y_0 \cdot z_0^* + s^{*+}) \cdot \hat{z}_0^* \leq 0$$

$$\sum_{j=1}^n X_j \cdot \hat{z}_j^* \leq X_0 - s^{*-} \leq X_0$$

$$s^{*+} \quad s^{*-} \quad \mu - \quad \cdot \quad , \quad \mu$$

$$\mu \quad (10) \quad \mu \quad \hat{z}_0^* \quad z_0^* \quad j^*$$

$$j^* \cdot \quad , \quad \mu \quad :$$

$$\max z_0 \geq z_0^* \cdot \hat{z}_0^* > z_0^*$$

$$\hat{z}_0^* \geq 0. \quad \mu \quad , \quad z_0^* = \max z_0 , \quad \cdot \quad \mu \quad \mu$$

$$, \quad z_0^* = 1 \quad \mu \quad \mu$$

(13).

$$\mu \quad j^*, j=1, \dots, n, \quad \mu \quad (10)$$

$$\mu \quad (13) \quad \mu \quad \mu \quad \mu \quad ,$$

$$\mu \quad \hat{s}^{*-} \quad \hat{s}^{*+} \quad \mu \quad \mu \quad . \quad , \mu$$

(11):

$$-\sum_{j=1}^n Y_j \cdot z_j^* + Y_0 \cdot z_0^* + s^{*+} = 0$$

$$\sum_{j=1}^n X_j \cdot z_j^* = X_0 - s^{*-}.$$

$$j^* \quad \mu \quad \mu \quad \mu \quad \mu \quad \hat{z}_0^* = 1. \quad :$$

$$-\sum_{j=1}^n Y_j \cdot z_j^* + (Y_0 \cdot z_0^* + s^{*+}) \cdot \hat{z}_0^* = 0$$

$$\sum_{j=1}^n X_j \cdot z_j^* = X_0 - s^{*-}$$

$$\hat{z}_0^* = 1. \quad , \quad , \quad \hat{z}_0^* = 1.$$

$$, \quad \mu \quad \hat{s}^{*+} \quad \hat{s}^{*-} \quad \mu \quad .$$

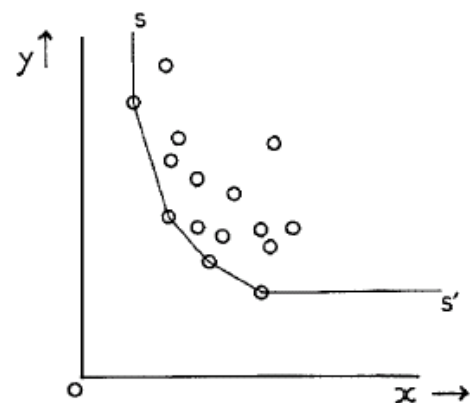
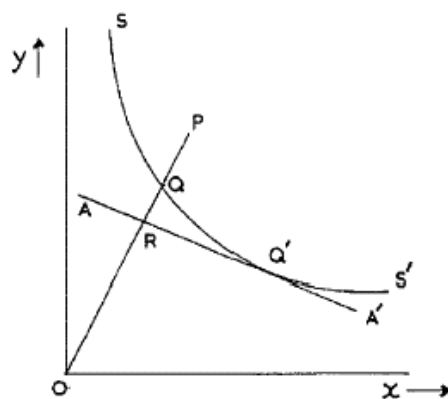
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 μ z_0^* \hat{s}^{*-}
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Forsund Sarafoglou, (2002)
CCR (Charnes, Cooper Rhodes) μ μ .
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Farrell “Measuring the efficiency of decision making units”
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Russell (1998) : « *Farrell*
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 μ : OQ/OP
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 μ Q: OR/OQ
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 μ μ : OR/OP=(OQ/OP)(OR/OQ) (Forsund
 Sarafoglou, 2002)

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 ALS, μ
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 μ μ Farrell
 μ . μ Hoffman (1957)
 μ μ $\mu\mu$ $\mu\mu$ μ μ ,
 μ Lemke μ μ .
 Farrell Fieldhouse (1962). Hoffman
 μ Farrell Fieldhouse μ μ agricultural economics ,
 Berkeley μ $\mu\mu$ $\mu\mu$ μ Boles
 μ μ .
 μ . Boles 1967 μ
 μ interpretation μ
 μ μ μ
 μ μ μ . Boles , μ $\mu\mu$
 $\mu\mu$ μ μ $\mu\mu$
 3 μ : single product μ
 μ μ , multiple product μ μ single
 product μ μ μ . $\mu\mu$ μ $\mu\mu$
 μ μ .
 CCR 1978 μ Farrell. μ
 $\mu\mu$ $\mu\mu$ μ . $\mu\mu$
 $\mu\mu$ μ μ Farrell. CCR
 μ Farrell μ
 ordinary linear programming method. μ μ
 μ $\mu\mu$ $\mu\mu$ μ μ . μ
 CCR 1978 μ
 μ . Charnes *et al* 1994

Farrell
 /
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 CCR
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 Farrell
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 Charnes
 Cooper 1962
 Farrell.
 CCR
 primal
 Farrell
 Cooper
 Charnes
 Farrell
 Fieldhouse
 CCR
 Farrell
 Fieldhouse (1962)
 CRS
 1957
 1962.
 1957

1962 CRS

VRS.

CRS

Charnes *et al.* 1978, Boles (1967) Boles (1971)

Fortran CRS Farrell 1957

Grouping Method.

VRS,

U,

VRS

3.1.1 Farrell

Farrell 1957 Farrell Fieldhouse 1962

CRS

Farrell Fieldhouse (1962):

$$l_1 = \max \{ \lambda_1 + \dots + \lambda_{n+m} \}$$

$$\sum_{j=1}^{n+m} P_j \lambda_j = P_k$$

$$\lambda_j \geq 0, \quad j = 1, \dots, n+m \quad (1)$$

$$P_j \in E^m (j = 1, \dots, n)$$

$$P_{n+i} = (0, \dots, \infty, \dots, 0), i = 1, \dots, m \quad (2)$$

i^{th}
 μ μ μ impose μ
 μ $\cdot P_k$ (1) P_k
 $\frac{1}{I_1}$
 μ Farrell 1957 Farrell Fieldhouse 1962
 μ μ (1). μ (1) μ μ
 DEA. μ μ :
 $l_2 = \min \theta$
 μ

$$\sum_{j=1}^{n+m} P_j \lambda_j = \theta P_k$$

$$\sum_{j=1}^{n+m} \lambda_j = 1$$

$$\lambda_j \geq 0, \quad j = 1, \dots, n+m \quad (3)$$

 μ (3) DEA, μ μ
 DEA μ .
 μ 1
 μ
 $P_j, j = 1, \dots, n+m$. μ 1 3 μ , μ
 μ , $I_2 = \frac{1}{I_1}$
 μ μ μ μ :

$$\lambda_j = \frac{1}{\theta} \lambda_j', j = 1, \dots, n+m, I_1 = \frac{1}{\theta}, I_2 = \theta \quad (4)$$

 $\lambda_j, j = 1, \dots, n+m, \lambda_j', j = 1, \dots, n+m, \theta$
 μ μ (1) (3),

3.1.2

μ Farrell CCR DEA μ

μ 3 DEA μ , μ DEA μ .
 μ 3

μ μ Charnes *et al* (1978) (CCR) μ μ . CRS

μ μ Farrell Fieldhouse μ

$$x'_j = \begin{pmatrix} x_j / y_j \end{pmatrix} \quad x_j \in E^m, j = 1, \dots, n \quad y_j \quad . \quad x_j$$

μ μ CCR. μ μ μ μ μ

μ Farrell:

$$I_3 = \max \sum_{j=1}^{n+m} \lambda'_j$$

μ

$$\sum_{j=1}^{n+m} x'_j \lambda'_j = x'_k$$

$$\lambda'_j \geq 0, \quad j = 1, \dots, n + m, \quad (5)$$

$$\mu \quad \mu \quad \mu \quad \lambda_j \quad \lambda'_j \quad \mu$$

$$\mu \quad x'_j. \quad \mu \quad \mu \quad \mu \quad 1, \quad \mu \quad \mu \quad 5 \quad \mu$$

μ μ :

$$l_4 = \min \theta$$

μ

$$\sum_{j=1}^{n+m} x'_j \lambda'_j = \theta x'_k$$

$$\sum_{j=1}^{n+m} \lambda'_j = 1$$

$$\lambda'_j \geq 0, \quad j = 1, \dots, n + m, \quad (6)$$

μ CCR μ μ .

$$l_5 = \min \theta$$

μ

$$\sum_{j=1}^n x'_j \lambda'_j \leq \theta x'_k$$

$$\lambda_j \geq 0, \quad j=1, \dots, n \quad (7)$$

$$l_6 = \min \theta$$

$$\sum_{j=1}^n \lambda'_j - S_0 = 1,$$

$$\lambda'_j \geq 0, \quad j=1,...,n, \quad S_i \geq 0, \quad i=1,...,m \quad (8)$$

$$X'_j = X_j / y_j, \quad j = 1, \dots, n, \quad X'_k = X_k / y_k,$$

$$\lambda'_j = \lambda_j y_j, j = 1, \dots, n, \quad (9)$$

μ_2
 μ_7 μ_8 μ
 μ $I_5 = I_6$, μ θ μ λ_j λ'_j
 $j = 1, \dots, n$, μ_9 .

μ μ μ μ 6μ CCR μ 7 μ
 μ 8 . μ (2) μ μ μ λ'_{n+1} ,
 $i = 1, \dots, m$, s_0 μ 6 slack μ μ μ
 8 . 6 μ m . μ
 Farrell μ μ μ μ
 Pareto μ .

μ 8 , 8
 μ μ μ Pareto μ μ .
 μ 8 2 μ μ
 μ μ . μ 7 μ
 μ μ μ
 DEA. μ μ 6 8
 . μ , μ .
 Farrell 1957 :

$$P_{n+i} = (0, \dots, M, \dots, 0), \quad i = 1, \dots, m, \quad (10)$$

μ μ μ μ
 μ . μ μ “
 ” μ DEA.

3.1.3 μ Farrell μ .

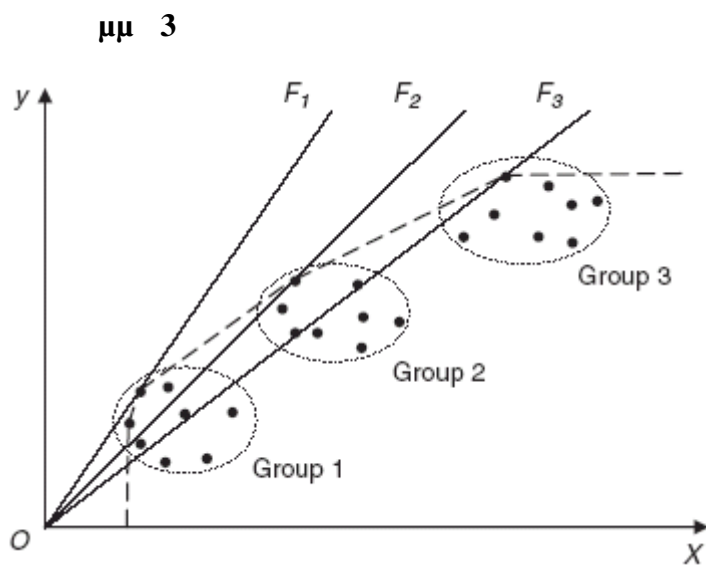
Farrell 1957 μ 1

$$\max \sum_{j=1}^{n+m+r} \lambda_j$$

μ

$$\sum_{j=1}^{n+m+r} X_j \lambda_j = X_k$$

Fieldhouse 1962 Farrell 5 Farrell 10 CCR 7. digits

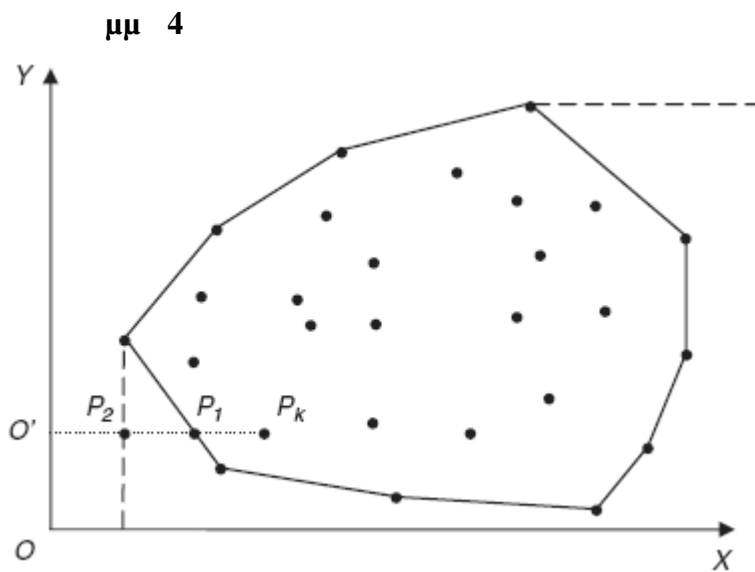


: (Forsund et al 2009, .1539)

Farrell Fieldhouse VRS 10 CRS (3), CRS

3.1.5 – The overall method

Farrell Fieldhouse



: (Forsund et al 2009, .1540)

μμ 4 (Farrell – Fieldhouse BBC). μ
 μ Farrell – Fieldhouse $\theta_1 = O'P_1/O'P_k$ μ
 , μμ .
 BBC μ $\theta_2 = O'P_2/O'P_k$ μ .
 μμ μμ μμ μμ ,
 μμ μμ μμ BBC.
 μ μ 14 15 μ μ ,
 μ μ μ convex μ
 μ . Farrell Fieldhouse μ μ
 . Farrell 1957 μ μ μ
 μ , μ μ μ μ
 . μ VRS
 μ FDH.
 μ μ Seitz (1970,1971), μ
 μ Boles (1971).
 Seitz Boles μ μ
 Farrell Fieldhouse (1962).

4.1

228 (Kiel (Kiel Institute Internal Journal Ranking), ABS¹⁴ (The Association of Business Schools), Scopus¹⁵, RePEc¹⁶ (Research Papers in Economics), ISI¹⁷ (Institute Scientific Information), EconLit¹⁸. (http://en.wikipedia.org/wiki/Bibliographic_database ; <http://www.csa.com/factsheets/econlit-set-c.php> ; <http://www.info.sciverse.com/scopus/about> ; <http://repec.org/> ; <http://www.ifw-kiel.de/academy/internal-journal-ranking> ; <http://www.the-abs.org/uk/>)

4.2 μ

1. μ (volumes) μ 2009, μ (. . Scandinavian Journal of Economics) μ (. . Journal of Economics (Zeitschrift für Nationalökonomie)) μ ,

ABS
μ « » μ .
μ , 41 μ μ
μ 73
μ , μ μ μ o American Economic Association EconLit.
μ μ , μ μ , μ μ
μ , μ μ μ μ , μ μ
μ μ μ - , μ μ , μ μ μ
μ American Economic Association, μ
μ μ . μ *Journal of Economic Literature*
(JEL) , EconLit μ
μ .

μ (volumes)

, μ μ volumes μ
44,93421.

μ μ μ :

$$\bar{X} = \frac{\sum_{i=1}^n X_i}{n} = \frac{84 + 21 + 40 + \dots + 37 + 32 + 119}{228} = 44,93421$$

μ 38 μ μ μ
(228) :

$$\mu = \frac{38 + 38}{2} = 38$$

μ 114 115

International Journal of Game Theory Journal of Legal Studies.

μ μ μ μ μ , μ

μ . μ μ

μ (range), μ μ

μ μ μ . μ ,

μ μ μ , μ

μ . μ μ , μ μ

μ , (standard deviation). μ

μ μ μ μ .

μ μ () μ μ

μ . μ μ μ

$$\mu \quad \mu \quad \sigma = \sqrt{\frac{\sum_{i=1}^n (X_i - \bar{X})^2}{n-1}} =$$

$$\sqrt{\frac{(84 - 44,93421)^2 + (21 - 44,93421)^2 + (40 - 44,93421)^2 + \dots + (37 - 44,93421)^2 + (32 - 44,93421)^2 + (119 - 44,93421)^2}{228 - 1}} =$$

30,18913

μ μ μ μ μ

30,18913 μ .

μ μ μ ,

volumes

. 10 μ

: Jahrbücher für Nationalökonomie und Statistik μ 229, Journal of Econometrics μ 153, Review of World Economics μ 145, Journal of Economic Theory μ 144, Public Choice μ 141, International Journal of Production Economics μ 122, Economic Journal μ 119, Yale Law Journal μ 119, Journal of Political Economy μ 117 Scandinavian Journal of Economics μ 111.

10 μ μ volumes : Journal of the Europ. Econ. Ass. μ 7, Economics and Human Biology μ 7, Journal of Economic Geography μ 9, German Economic Review μ 10, European Journal of Health Economics μ 10, Review of Economic Dynamics μ 12, Journal of Financial Markets μ 12, International Finance μ 12, Experimental Economics 12 Econometrics Journal μ 12.

μ Scopus (Scopus citations)

, μ μ μ scopus citations μ 10344,7.

μ μ μ :

$$\bar{X} = \frac{\sum_{i=1}^n X_i}{n} = \frac{11110 + 320 + 6183 + \dots + 44035 + 5787 + 7634}{228} = 10344,7$$

μ 4642 μ μ μ (228) :

$$\mu = \frac{4662 + 4622}{2} = 4642$$

μ 114 115

Journal of Environmental Planning and Management British Journal Relations.

μ μ () μ μ μ μ

$$\mu \quad \mu \quad \sigma = \sqrt{\frac{\sum_{i=1}^n (X_i - \bar{X})^2}{n-1}} = \sqrt{\frac{(11110-10344,7)^2 + (320-10344,7)^2 + (6183-10344,7)^2 + \dots + (44035-10344,7)^2 + (5787-10344,7)^2}{228-1}} = 14858,65$$

14858,65 μ . μ μ μ μ , scopus

. 10 μ

: Journal of Financial Economics μ 93735, Journal of Political Economy μ 89944, Management Science μ 88995, American Economic Review μ 80192, Journal of Econometrics μ 63754, Journal of Finance μ 56519, Journal of Economic Theory μ 47413, Quarterly Journal of Economics μ 45509, World Development μ 44035 Journal of Monetary Economics μ 41554.

10 μ μ

scopus : Geneva Risk and Insurance Review μ 64, Econometrics Journal μ 128, European Journal of the History of Economic Thought μ 159, Economics and Philosophy μ 306, European Review of Economic History μ 307, African Development Review μ 320, Eastern European Economics μ 438, Jahrbücher für Nationalökonomie und Statistik μ 494, Review of World Economics μ 559 German Economic Review μ 605.

(Issues)

H μ μ (issues) μ 180.3465.

μ ,

.

μ μ :

$$\bar{X} = \frac{\sum_{i=1}^n X_i}{n} = \frac{342 + 49 + 132 + \dots + 442 + 215 + 919}{228} = 180.3465$$

μ 148 μ μ μ

μ (228) :

$$\mu = \frac{148 + 148}{2} = 148$$

Energy Economics 114 Journal of Consumer Research. 115

$$\sigma = \sqrt{\frac{\sum_{i=1}^n (X_i - \bar{X})^2}{n-1}} = \sqrt{\frac{(263-180.3465)^2 + (547-180.3465)^2 + (1083-180.3465)^2 + \dots + (445-180.3465)^2 + (615-180.3465)^2}{228-1}} = 129.3926$$

129.3926

μ , ' μ

μ μ μ , μ

μ μ . 10

μ : Yale Law Journal μ 919, Michigan Law Review μ 847, Journal of Political Economy μ 736, Scandinavian Journal of Economics μ 603, Management Science μ 582, Economic Journal μ 541, American Economic Review μ 447, World Development μ 442, Applied Economics μ 441 Foreign Affairs μ 441.

10 μ μ

issues : Economics and Human Biology μ 21, Econometrics Journal μ 29, International Finance μ 35, European Journal of Health Economics μ 38, European Review of Economic History μ 39, German μ 40, Journal of Economic Geography μ 41, Experimental Economics 41, Journal of the Europ. Econ. Ass μ 42 Review of Development Economics μ 46.

μ Scopus (Scopus Documents)

μ μ μ

664,8202.

μ μ :

$$\bar{X} = \frac{\sum_{i=1}^n X_i}{n} = \frac{547 + 243 + 804 + \dots + 1901 + 988 + 615}{228} = 664,8202$$

$$\mu = \frac{526,5 + 523}{2} = 526,5$$

Oxford Bulletin of Economics and Statistics 114, British Oxford Economic Papers – New Series.

$$\sigma = \sqrt{\frac{\sum_{i=1}^n (X_i - \bar{X})^2}{n-1}} = \sqrt{\frac{(263-358,443)^2 + (547-664,8202)^2 + (1083-664,8202)^2 + \dots + (445-664,8202)^2 + (615-664,8202)^2}{228-1}} = 527,1873$$

527,1873 : 10 : Foreign Affairs μ 3522, Economics Letters μ 3497, Applied Economics μ 2832, Applied Economics Letters μ 2732, International Journal of Production Economics μ 2628, American Economic Review μ 2410, Ecological Economics μ 2322, World Development μ 1901, Management Science μ 1816 Journal of Banking & Finance μ 1801.

10 : Geneva Risk and Insurance Review μ 49, European Review of Economic History μ 113, Econometrics Journal μ 116, Economics and Philosophy μ 129, Finance and Stochastics μ 166, Econometric Reviews μ 166, World Bank Research Observer μ 170, Experimental μ 177, European Journal of the History of Economic Thought μ 191, International Finance μ 196.

μ ISI (ARTICLES ISI)

μ 358.443.

μ :

$$\bar{X} = \frac{\sum_{i=1}^n X_i}{n} = \frac{342 + 139 + 451 + \dots + 937 + 529 + 273}{228} = 358.443$$

(228) : $\mu = 358.443$

$$\mu = \frac{266 + 263}{2} = 264.5$$

$\mu = 264.5$ 114 115

Economica and Journal of Policy Analysis and Management.

$\mu = 358.443$ () $\mu = 264.5$

$$\sigma = \sqrt{\frac{\sum_{i=1}^n (X_i - \bar{X})^2}{n-1}} = \sqrt{\frac{(263-358.443)^2 + (785-358.443)^2 + (1083-358.443)^2 + \dots + (445-358.443)^2 + (320-358.443)^2}{228-1}} = 344.7724$$

344.7724 $\mu = 358.443$ $\mu = 264.5$ $\mu = 344.7724$

ISI 10

$\mu = 3202$, Development $\mu = 2078$, Economics Letters $\mu = 1618$, Applied Economics $\mu = 1596$, Ecological Economics $\mu = 1532$, Applied Economics Letters $\mu = 1513$, International Journal of Production Economics $\mu = 1244$, American Economic Review $\mu = 1224$, Journal of Banking & Finance $\mu = 963$, Journal of Economic Behavior & Organization $\mu = 956$, Management Science $\mu = 956$.

10 $\mu = 344.7724$

ISI : Geneva Risk and Insurance Review $\mu = 41$, International Finance $\mu = 42$, European Review of Economic History $\mu = 45$, Journal of cultural Economics $\mu = 46$, Brooking Papers on Economic Activity $\mu = 53$, World Bank Research Observer $\mu = 69$, German Economic Review $\mu = 74$, Journal of International Trade and Economic Development $\mu = 78$, Journal of Economic Growth $\mu = 85$, Bulletin of Indonesian Economic Studies $\mu = 87$.

ISI (ISI total citations)

μ ISI μ 2278.496.

$$\mu \quad \mu \quad \mu \quad :$$

$$\bar{X} = \frac{\sum_{i=1}^n X_i}{n} = \frac{261+3141+3177+...+6081+4613+8122}{228} = 2278.496$$

$$\mu \quad 919 \quad \mu \quad \mu \quad \mu$$

$$\mu = \frac{934 + 904}{2} = 919$$

μ 114 115

Journal of Applied Statistics Papers in Regional Science.

$$\mu \quad \mu \quad (\quad) \quad \mu$$

$$\mu \quad \mu \quad \mu \quad \mu \quad \mu$$

$$\sigma = \sqrt{\frac{\sum_{i=1}^n (X_i - \bar{X})^2}{n-1}} = \sqrt{\frac{(6420 - 2278.496)^2 + (785 - 2278.496)^2 + (6183 - 2278.496)^2 + \dots + (44035 - 2278.496)^2 + (3210 - 2278.496)^2}{228-1}}$$

4632.814

$$4632.814 \mu \quad \mu \quad \mu \quad \mu \quad \mu$$
$$\mu_1, \mu_2, \mu_3,$$

ISI

10 μ

: Development μ 49204, American Economic Review μ 26199, Econometrica μ 20643, Management Science μ 20103, Journal of Finance μ 18039, Journal of Political Economy μ 16350, Quarterly Journal of Economics μ 13985, Journal of Financial Economics μ 12058, Journal of Consumer Research μ 10771, Journal of Econometrics μ 8122.

10 μ μ

ISI : Geneva Risk and Insurance Review μ 23,
African Development Review μ 75, Eastern European Economics μ 91,

Repec (Factor Repec)

3,624,855

$$\mu = \frac{1.84500 + 1.84600}{2} = 1.8455$$

$$\sigma = \sqrt{\frac{\sum_{i=1}^n (X_i - \bar{X})^2}{n-1}} =$$

μ

μ μ 5,395743 μ .

μ μ μ ,

μ μ

Repec. 10 μ :

Quarterly Journal of Economics μ 33.151, Journal of Economic Literature μ 31.249, Econometrica μ 28.299, Journal of Economic Growth μ 28.097, Brookings Papers on Economic Activity μ 20.841, Review of Economic Studies μ 18.628, Economic Policy μ 18.168, Journal of Economic Perspectives μ 17.696, Journal of Political Economy μ 17.379 Journal of Financial Economics μ 16.773.

10 μ μ
: Yale Law Journal, Urban Studies, Telecommunications Policy, Review of International Studies, Review of Accounting Studies, Resource and Energy Economics, Post-Soviet Affairs, New Political Economy, Natural Resources Journal National Tax Journal μ μ 0.00010.

ISI (Five Year IMP Factor ISI)

μ μ μ 1.822395

:

$$\bar{X} = \frac{\sum_{i=1}^n X_i}{n} = \frac{1.938 + 0.477 + 0.673 + \dots + 1.225 + 1.159 + 4.109}{228} = 1.822395$$

μ 228

1,8455 :

$$\mu = \frac{1.425 + 1.424}{2} = 1.4245$$

μ 114 115

Journal of the Europ. Econ. Ass. Review of Economic Dynamics.

μ μ μ

μ μ :

$$\sigma = \sqrt{\frac{\sum_{i=1}^n (X_i - \bar{X})^2}{n-1}} =$$

$$\sqrt{\frac{(3.560 - 1.822395)^2 + (2.789 - 1.822395)^2 + (0.6854 - 1.822395)^2 + \dots + (0.477 - 1.822395)^2 + (1.965 - 1.822395)^2}{228-1}}$$

=1,429865

μ SI

5 μ μ 1,429865 μ .

μ .

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μ μ μ .

μ μ μ μ

μ : 2 , Scopus ISI,

Scopus μ

ISI. μ

Scopus μ μ ISI, μ μ 3

: Development μ 1052 Scopus 49204 ISI, Econometrics Journal

μ 128 Scopus 493 ISI Economics and Philosophy μ 306 Scopus

323 ISI. Scopus μ

.() .

ISI μ Scopus, μ

μ μ ISI

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, : documents Scopus, articles ISI. μ

μ μ μ

μ μ Scopus

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. Development

Econometrics Journal ISI Scopus.

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4.16179, μ

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μ μ μ μ μ . μ

: Applied Economics Letters, Applied Economics, Environment and Planning

A, Management Science World Development. μ

: Jahrbücher für Nationalökonomie und Statistik, Papers in
 Regional Science, Review of World Economics, World Bank Research Observer, Brookings
 Papers on Economic Activity. Applied
 Economics Letters 13.375
 Jahrbücher für Nationalökonomie und Statistik 1.26009.

Kiel ABS 1 4.
 , .
 Kiel
 ABS .
 1,671053 ABS 2,587719.
 ABS .
 factor Repec, impact factor ISI 5-year impact factor
 ISI, factor Repec impact factor ISI
 , ISI. ISI
 Repec , :
 African Development Review, Agricultural Economics, Australian Journal of Agricultural and
 Resource Economics, Demography, Development.

4.3. μ

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 μ μ μ μ
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 μ , μ .
 μ μ μ μ μ μ
 (μ), μ μ
 μ Burton Phimister (1995),
 Diamond μ μ μ
 . μ

μ $\mu\mu$ $\mu\mu$ μ μ μ μ
 $\mu\mu \cdot \mu$ μ
 μ μ μ (Constant Returns to Scale, CRS)
 Charnes *et al.*, (1978) μ
 (input oriented), μ μ
 μ μ :

$$\min E_m = \sum_{i=1}^I u_{im} \cdot x_{im}$$

$$\mu :$$

$$\sum_{j=1}^J v_{jm} \cdot y_{jn} = 1$$

$$\sum_{j=1}^J v_{jm} \cdot y_{jn} - \sum_{i=1}^I u_{im} \cdot x_{in} \leq 0$$

$$n = 1, 2, \dots, N ; v_{jm}, u_{im} \geq 0 ; i = 1, 2, \dots, I ; j = 1, 2, \dots, J ,$$

$$\begin{aligned}
 E_m & \text{ m-}, \\
 y_{im} & \text{ j- m-}, \\
 v_{jm} & \mu, \\
 x_{im} & \text{ i- m-}, \\
 u_{im} & \mu, \\
 y_{in} & \text{ j- n-}, \\
 x_{in} & \text{ i- n-}.
 \end{aligned}$$

$$\begin{aligned}
 & \mu \mu \mu \mu \mu (\mu) \mu \mu \\
 & \mu \mu \mu \mu \mu \mu \mu \mu \\
 & \mu \mu \mu \mu \\
 & \mu \text{ Kiel ABS.} :
 \end{aligned}$$

$$(x1) = \frac{\rho\theta\rho\alpha}{\tau \mu oi (ABS + Kiel)}, \mu \mu ($$

$$\begin{aligned}
 & \mu) (\mu \text{ Kiel ABS).} \\
 & \mu \mu \mu \mu , \\
 & \mu \text{ Scopus,} ,
 \end{aligned}$$

$$\frac{(5 \text{ year im.factor} - \text{im.factor})}{\mu \text{ RePEc}} \mu \text{ ISI,}$$

:

$$(y1) = \frac{\text{αναφορ } \varsigma \text{ _Scopus}}{(\rho\theta\rho\alpha \text{ _Scopus} / \rho\theta\rho\alpha \text{ _περιοδικο}) * (\beta\alpha\rho \text{ τητα _ISI} + \beta\alpha\rho \text{ τητα _RePEc})}$$

$$(y2) = \frac{\text{αναφορ } \varsigma \text{ _ISI}}{(\rho\theta\rho\alpha \text{ _ISI} / \rho\theta\rho\alpha \text{ _περιοδικο}) * (\beta\alpha\rho \text{ τητα _ISI} + \beta\alpha\rho \text{ τητα _RePEc})}$$

$$\mu \quad \mu \quad \mu$$

4.3.1 -

$$\mu \text{ (} \mu \text{)} \quad \mu \text{ Eviews,}$$

$$\mu , \quad 2)$$

(4.2)

	X1	Y1	Y2
μ	1.113728	39046.39	19615.94
μ	0.991296	4283.778	1486.183
μ	6.6875	2471320	1188832
μ	0.303571	20.52016	10.71038
	0.64849	181773	98403.43

$$\mu \text{ X1}$$

$$\mu$$

$$\mu \quad \mu \quad \mu$$

$$\bar{X} = \frac{\sum_{i=1}^n X_i}{n} =$$

1,113728 μ μ

$$\mu = \frac{0.992593 + 0.99}{2} = 0.991296$$

Policy.

0,64849

Applied Economics Letters μ 6.6875, Applied Economics μ 3.585366, Research Policy μ 3.355263, Michigan Law Review μ 2.638629, Yale Law Journal μ 2.57423, Telecommunications Policy μ 2.565657, World Development μ 2.389189, Eastern European Economics μ 2.382979, World Economy μ 2.389189 Journal of Peace Research μ 2.195652.

Journal of Economic Theory μ 0.303571, Games and Economic Behavior μ 0.307036, Journal of Econometrics μ 0.336134, Brookings Papers on Economic Activity μ 0.361702, Journal of Accounting Research μ 0.361702, Journal of Law & Economics μ 0.4, Journal of Financial Economics μ 0.416413, Jahrbücher für Nationalökonomie und Statistik μ 0.42067, Journal of Law, Economics & Organization μ 0.424, Review of Economic Studies μ 0.438312.

1. Scopus μ 39046,39

scopus

μ 39046,39 μ

:

$$\bar{X} = \frac{\sum_{i=1}^n X_i}{n} =$$

$$\frac{23034.59 + 26.13979 + 997.9639 + \dots + 47926.62 + 5078.825 + 39653.8}{228} = 39046,39$$

$$\mu = \frac{4283,718 + 4283,718}{2} = 4283,718$$

μ 114 115
Journal of the Japanese and International Economies Energy Journal.

, :

$$\sigma = \sqrt{\frac{\sum_{i=1}^n (X_i - \bar{X})^2}{n-1}} =$$

$$\sqrt{\frac{(2895.7 - 39046,3)^2 + (4365.5 - 39046,3)^2 + (3893.5 - 39046,3)^2 + \dots + (3478.9 - 39046,3)^2 + (3386.7 - 39046,3)^2}{228-1}} =$$

181773

μ μ μ μ μ 181773

μ .

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1

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: Journal of Political Economy μ 2471320, Quarterly Journal of Economics μ 615977.2, Journal of Financial Economics μ 582953.2, Journal of Economic Literature μ 524008.6, Econometrica μ 518384.7, American Economic Review μ 307330.1, Journal of Finance μ 262475.6, Review of Economic Studies μ 230475.9, Economic Journal μ 219390.5 Journal of Econometrics μ 214641.9.

10 μ μ

1 : European Journal of the History of Economic Thought μ 20.52016, African Development Review μ 26.13979, History of Political Economy μ 58.62539, Economics and Philosophy μ 101.8468, Post-Communist Economies μ 165.0546, Statistical Papers μ 174.8186, Geneva Papers on Risk and Insurance: Issues and Practice μ 184.6495, Geneva Risk and Insurance Review μ 191.8981, Applied Economics Letters μ 202.5192 New Political Economy μ 207.6865.

μ μ 2 μ μ μ μ

μ μ μ , μ μ

μ scopus μ

ISI . μ ISI

$$\bar{X} = \frac{\sum_{i=1}^n X_i}{n} =$$

$$\frac{10870.18 + 10710.38 + 279.9677 + \dots + 11919.39 + 1775.168 + 43354.42}{228} = 19615,94$$

$$\mu = \frac{1487.808 + 1484.559}{2} = 1486,183$$

Policy Sciences Journal of Economics and Management Strategy.

$$\sigma = \sqrt{\frac{\sum_{i=1}^n (X_i - \bar{X})^2}{n-1}} =$$

$$\sqrt{\frac{(1480.0 - 19615,9)^2 + (1857.1 - 19615,9)^2 + (1187.2 - 19615,9)^2 + \dots + (1345.0 - 19615,9)^2 + (2036.2 - 19615,9)^2}{228-1}}$$

$$= 98403,43.$$

98403,43.

Journal of Political Economy μ 1188832, Econometrica μ 727330.5,
Quarterly Journal of Economics μ 377926.9, Journal of Economic Literature μ 250445.5,
American Economic Review μ 194516, Journal of Finance μ 165417.3, Review of
Economic Studies μ 135776.5, Journal of Financial Economics μ 120791.2, Economic
Journal μ 90545.24 Review of Economics and Statistics μ 80901.26.

10 μ μ
 2 : African Development Review μ 10.71038,
 European Journal of the History of Economic Thought μ 18.01346, Post-Communist
 Economies μ 45.41755, Geneva Papers on Risk and Insurance: Issues and Practice μ
 46.67931, Statistical Papers μ 62.59662, Applied Economics Letters μ 73.78918,
 History of Political Economy μ 77.96098, Geneva Risk and Insurance Review μ
 82.41966, Post-Soviet Affairs μ 83.28446 European Journal of Industrial Relations
 μ 93.91273.

4.4 μ DEA

$$\mu \quad \mu \quad \mu$$

$$(4.3)$$

(4.3):

1	Journal of Political Economy	1.000000	31	Journal of Risk and Uncertainty	0.018656
2	Econometrica	0.754091	32	Journal of Industrial Economics	0.017661
3	Quarterly Journal of Economics	0.497315	33	Journal of Urban Economics	0.017449
4	Journal of Financial Economics	0.445434	34	Review of Financial Studies	0.016536
5	Journal of Economic Literature	0.291783	35	Journal of Human Resources	0.015990
6	American Economic Review	0.213625	36	World Bank Economic Review	0.015739
7	Review of Economic Studies	0.204893	37	Games and Economic Behavior	0.015697
8	Journal of Econometrics	0.203178	38	Journal of Business & Economic Statistics	0.015508
9	Journal of Finance	0.184274	39	Journal of International Business Studies	0.015395
10	Brookings Papers on Economic Activity	0.130962	40	Oxford Economic Papers – New Series	0.015024
11	Economic Journal	0.107483	41	Economic Geography	0.013359
12	Journal of Monetary Economics	0.105577	42	Journal of Accounting Research	0.012831
13	Journal of Economic Theory	0.105092	43	Land Economics	0.012777
14	Review of Economics and Statistics	0.091139	44	Accounting Review	0.012601
15	Journal of International Economics	0.069145	45	Development	0.012168
16	Journal of Public Economics	0.053565	46	Industrial and Labor Relations Review	0.011289
17	Journal of Accounting and Economics	0.052018	47	Yale Law Journal	0.011140
18	Journal of Economic Perspectives	0.047540	48	Economica	0.010836
19	Journal of Environmental Econ. and Management	0.039415	49	Demography	0.010648
20	Rand Journal of Economics	0.029544	50	Journal of Health Economics	0.010519
21	Journal of Development Economics	0.029182	51	Scandinavian Journal of Economics	0.009660
22	Journal of Economic Growth	0.028669	52	Journal of Law, Economics & Organization	0.009429
23	European Economic Review	0.025357	53	Oxford Bulletin of Economics and Statistics	0.009372
24	Journal of Law & Economics	0.025152	54	Transportation Research: Part B: Methodological	0.008230
25	International Economic Review	0.022383	55	Journal of Financial and Quantitative Analysis	0.008094
26	Journal of Consumer Research	0.022368	56	Journal of Money Credit and Banking	0.007968
27	Journal of Labor Economics	0.022293	57	Economic Development and Cultural Change	0.007775
28	International Organization	0.021632	58	Journal of Economic Behavior & Organization	0.007543
29	Management Science	0.021226	59	Journal of Conflict Resolution	0.006924
30	Economic Policy	0.020790	60	Journal of International Money and Finance	0.006492

61	World Development	0.006383	94	Kyklos	0.002393
62	Public Choice	0.006338	95	Journal of Development Studies	0.002225
63	World Bank Research Observer	0.006092	96	International Journal of Game Theory	0.002187
64	Journal of Applied Econometrics	0.005842	97	Canadian Journal of Economics	0.002083
65	Population and Development Review	0.005824	98	Urban Studies	0.002076
66	Marketing Science	0.005795	99	International Journal of Forecasting	0.002072
67	Research Policy	0.005677	100	Industrial Relations	0.001942
68	Regional Science and Urban Economics	0.005336	101	Journal of Economic Geography	0.001901
69	Foreign Affairs	0.005153	102	Review of Income and Wealth	0.001876
70	International Journal of Production Economics	0.004707	103	Journal of Population Economics	0.001865
71	Journal of Economic Dynamics & Control	0.004654	104	Explorations in Economic History	0.001799
72	Journal of Banking & Finance	0.004617	105	Journal of Economic History	0.001789
73	Ecological Economics	0.004532	106	Southern Economic Journal	0.001769
74	Journal of Financial Intermediation	0.004079	107	Economic Theory	0.001748
75	Financial Management	0.003824	108	Journal of Regulatory Economics	0.001747
76	Economics Letters	0.003780	109	Energy Journal	0.001696
77	Journal of Regional Science	0.003678	110	Econometric Reviews	0.001685
78	International Journal of Industrial Organization	0.003570	111	Econometric Theory	0.001589
79	Papers in Regional Science	0.003291	112	Environmental & Resource Economics	0.001583
80	Regional Studies	0.003237	113	Cambridge Journal of Economics	0.001580
81	Journal of Comparative Economics	0.003219	114	Journal of Economics and Management Strategy	0.001557
82	Oxford Review of Economic Policy	0.003188	115	Labour Economics	0.001485
83	Michigan Law Review	0.003134	116	Journal of the Japanese and International Economies	0.001369
84	American Journal of Agricultural Economics	0.003094	117	Review of Economic Dynamics	0.001347
85	Journal of Legal Studies	0.002971	118	Economic History Review	0.001340
86	Environment and Planning A	0.002881	119	Journal of Productivity Analysis	0.001340
87	British Journal of Industrial Relations	0.002790	120	Health Economics	0.001215
88	Journal of Mathematical Economics	0.002723	121	Journal of Corporate Finance	0.001135
89	Journal of Economic Surveys	0.002643	122	Journal of Economic Psychology	0.001097
90	Journal of Agricultural Economics	0.002635	123	Review of World Economics	0.001084
91	Economic Inquiry	0.002440	124	Journal of Transport Economics and Policy	0.001075
92	Small Business Economics	0.002428	125	Economics of Education Review	0.001072
93	Mathematical Finance	0.002416	126	Real Estate Economics	0.001071

127	Journal of the Europ. Econ. Ass.	0.001067	160	Insurance: Mathematics and Economics	0.000610
128	Journal of Evolutionary Economics	0.001035	161	Journal of Environmental Planning and Management	0.000590
129	Journal of Financial Markets	0.001034	162	Australian Journal of Agricultural and Resource Economics	0.000587
130	Journal of Real Estate Finance and Economics	0.001023	163	International Tax and Public Finance	0.000531
131	Journal of Forecasting	0.001010	164	Econometrics Journal	0.000510
132	Scottish Journal of Political Economy	0.000989	165	Annals of Regional Science	0.000497
133	Development and Change	0.000981	166	Fiscal Studies	0.000489
134	IMF Staff Papers	0.000940	167	Applied Economics	0.000479
135	Manchester School	0.000937	168	International Review of Law and Economics	0.000456
136	Journal of Peace Research	0.000912	169	Bulletin of Indonesian Economic Studies	0.000443
137	European Review of Agricultural Economics	0.000907	170	Growth and Change	0.000433
138	International Regional Science Review	0.000893	171	China Economic Review	0.000417
139	Empirical Economics	0.000873	172	National Tax Journal	0.000401
140	Resource and Energy Economics	0.000869	173	Economics of Transition	0.000380
141	Journal of Cultural Economics	0.000864	174	Journal of Policy Modelling	0.000375
142	Economic Record	0.000854	175	Journal of Macroeconomics	0.000337
143	Energy Economics	0.000845	176	Feminist Economics	0.000333
144	Policy Sciences	0.000807	177	Environment and Planning C	0.000328
145	Food Policy	0.000796	178	Telecommunications Policy	0.000322
146	Theory and Decision	0.000785	179	International Journal of Finance and Economics	0.000320
147	Experimental Economics	0.000775	180	Journal of Housing Economics	0.000302
148	Social Choice and Welfare	0.000773	181	Macroeconomic Dynamics	0.000290
149	Journal of Economics (Zeitschrift für Nationalökonomie)	0.000763	182	Journal of African Economies	0.000289
150	World Economy	0.000722	183	Agricultural Economics	0.000289
151	Contemporary Accounting Research	0.000715	184	Review of International Studies	0.000277
152	Journal of Policy Analysis and Management	0.000703	185	Information Economics and Policy	0.000267
153	Review of Industrial Organization	0.000698	186	Population Research and Policy Review	0.000263
154	Review of Accounting Studies	0.000686	187	Environment and Development Economics	0.000248
155	International Finance	0.000676	188	Contemporary Economic Policy	0.000247
156	Finance and Stochastics	0.000672	189	Jahrbücher für Nationalökonomie und Statistik	0.000235
157	International Journal of Urban and Regional Research	0.000670	190	Canadian Journal of Agricultural Economics	0.000224
158	Mathematical Social Sciences	0.000667	191	Economic Modelling	0.000204
159	Journal of Risk and Insurance	0.000620	192	Mathematical Methods of Operations Research	0.000167

193	Resources Policy	0.000166	226	African Development Review	0.000011
194	Japanese Economic Review	0.000155	227	European Journal of the History of Economic Thought	0.000010
195	Economic and Industrial Democracy	0.000148	228	Applied Economics Letters	0.000010
196	Journal of Futures Markets	0.000147			
197	German Economic Review	0.000136			
198	Post-Soviet Affairs	0.000125			
199	European Journal of Industrial Relations	0.000119			
200	Economics and Philosophy	0.000118			
201	Journal of Applied Statistics	0.000117			
202	Journal of Post Keynesian Economics	0.000116			
203	Journal of Labor Research	0.000105			
204	Japan and the World Economy	0.000103			
205	European Review of Economic History	0.000098			
206	European Journal of Health Economics	0.000097			
207	Economics and Human Biology	0.000097			
208	Open Economies Review	0.000096			
209	Economic Development Quarterly	0.000092			
210	Journal of Economic Education	0.000091			
211	Journal of International Trade and Economic Development	0.000088			
212	Journal of Economic Issues	0.000081			
213	Developing Economies	0.000080			
214	Journal of Portfolio Management	0.000078			
215	Natural Resources Journal	0.000076			
216	Australian Economic Review	0.000073			
217	Review of Development Economics	0.000071			
218	Geneva Risk and Insurance Review	0.000066			
219	Statistical Papers	0.000060			
220	Defence and Peace Economics	0.000059			
221	New Political Economy	0.000058			
222	Geneva Papers on Risk and Insurance: Issues and Practice	0.000045			
223	History of Political Economy	0.000041			
224	Eastern European Economics	0.000035			
225	Post-Communist Economies	0.000026			

Journal of political Economy μ μ μ ,
Econometrica μ 0.754091, Quarterly Journal of Economics μ 0.497315, Journal of
Financial Economics μ 0.445434, Journal of Economic Literature μ 0.291783,
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218 0.10. μ μ μ
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40 , 60 108) μ
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1	Journal of Political Economy	<i>A</i>	31	Journal of Risk and Uncertainty	<i>B</i>
2	Econometrica	<i>A</i>	32	Journal of Industrial Economics	<i>B</i>
3	Quarterly Journal of Economics	<i>A</i>	33	Journal of Urban Economics	<i>B</i>
4	Journal of Financial Economics	<i>A</i>	34	Review of Financial Studies	<i>B</i>
5	Journal of Economic Literature	<i>A</i>	35	Journal of Human Resources	<i>B</i>
6	American Economic Review	<i>A</i>	36	World Bank Economic Review	<i>B</i>
7	Review of Economic Studies	<i>A</i>	37	Games and Economic Behavior	<i>B</i>
8	Journal of Econometrics	<i>A</i>	38	Journal of Business & Economic Statistics	<i>B</i>
9	Journal of Finance	<i>A</i>	39	Journal of International Business Studies	<i>B</i>
10	Brookings Papers on Economic Activity	<i>A</i>	40	Oxford Economic Papers – New Series	<i>B</i>
11	Economic Journal	<i>A</i>	41	Economic Geography	<i>B</i>
12	Journal of Monetary Economics	<i>A</i>	42	Journal of Accounting Research	<i>B</i>
13	Journal of Economic Theory	<i>A</i>	43	Land Economics	<i>B</i>
14	Review of Economics and Statistics	<i>A</i>	44	Accounting Review	<i>B</i>
15	Journal of International Economics	<i>A</i>	45	Development	<i>B</i>
16	Journal of Public Economics	<i>A</i>	46	Industrial and Labor Relations Review	<i>B</i>
17	Journal of Accounting and Economics	<i>A</i>	47	Yale Law Journal	<i>B</i>
18	Journal of Economic Perspectives	<i>A</i>	48	Economica	<i>B</i>
19	Journal of Environmental Econ. and Management	<i>A</i>	49	Demography	<i>B</i>
20	Rand Journal of Economics	<i>A</i>	50	Journal of Health Economics	<i>B</i>
21	Journal of Development Economics	<i>B</i>	51	Scandinavian Journal of Economics	<i>B</i>
22	Journal of Economic Growth	<i>B</i>	52	Journal of Law, Economics & Organization	<i>B</i>
23	European Economic Review	<i>B</i>	53	Oxford Bulletin of Economics and Statistics	<i>B</i>
24	Journal of Law & Economics	<i>B</i>	54	Transportation Research: Part B: Methodological	<i>B</i>
25	International Economic Review	<i>B</i>	55	Journal of Financial and Quantitative Analysis	<i>B</i>
26	Journal of Consumer Research	<i>B</i>	56	Journal of Money Credit and Banking	<i>B</i>
27	Journal of Labor Economics	<i>B</i>	57	Economic Development and Cultural Change	<i>B</i>
28	International Organization	<i>B</i>	58	Journal of Economic Behavior & Organization	<i>B</i>
29	Management Science	<i>B</i>	59	Journal of Conflict Resolution	<i>B</i>
30	Economic Policy	<i>B</i>	60	Journal of International Money and Finance	<i>B</i>

61	World Development	C	92	Small Business Economics	C
62	Public Choice	C	93	Mathematical Finance	C
63	World Bank Research Observer	C	94	Kyklos	C
64	Journal of Applied Econometrics	C	95	Journal of Development Studies	C
65	Population and Development Review	C	96	International Journal of Game Theory	C
66	Marketing Science	C	97	Canadian Journal of Economics	C
67	Research Policy	C	98	Urban Studies	C
68	Regional Science and Urban Economics	C	99	International Journal of Forecasting	C
69	Foreign Affairs	C	100	Industrial Relations	C
70	International Journal of Production Economics	C	101	Journal of Economic Geography	C
71	Journal of Economic Dynamics & Control	C	102	Review of Income and Wealth	C
72	Journal of Banking & Finance	C	103	Journal of Population Economics	C
73	Ecological Economics	C	104	Explorations in Economic History	C
74	Journal of Financial Intermediation	C	105	Journal of Economic History	C
75	Financial Management	C	106	Southern Economic Journal	C
76	Economics Letters	C	107	Economic Theory	C
77	Journal of Regional Science	C	108	Journal of Regulatory Economics	C
78	International Journal of Industrial Organization	C	109	Energy Journal	C
79	Papers in Regional Science	C	110	Econometric Reviews	C
80	Regional Studies	C	111	Econometric Theory	C
81	Journal of Comparative Economics	C	112	Environmental & Resource Economics	C
82	Oxford Review of Economic Policy	C	113	Cambridge Journal of Economics	C
83	Michigan Law Review	C	114	Journal of Economics and Management Strategy	C
84	American Journal of Agricultural Economics	C	115	Labour Economics	C
85	Journal of Legal Studies	C	116	Journal of the Japanese and International Economies	C
86	Environment and Planning A	C	117	Review of Economic Dynamics	C
87	British Journal of Industrial Relations	C	118	Economic History Review	C
88	Journal of Mathematical Economics	C	119	Journal of Productivity Analysis	C
89	Journal of Economic Surveys	C	120	Health Economics	C
90	Journal of Agricultural Economics	C			
91	Economic Inquiry	C			

121	Journal of Corporate Finance	<i>D</i>	152	Journal of Policy Analysis and Management	<i>D</i>
122	Journal of Economic Psychology	<i>D</i>	153	Review of Industrial Organization	<i>D</i>
123	Review of World Economics	<i>D</i>	154	Review of Accounting Studies	<i>D</i>
124	Journal of Transport Economics and Policy	<i>D</i>	155	International Finance	<i>D</i>
125	Economics of Education Review	<i>D</i>	156	Finance and Stochastics	<i>D</i>
126	Real Estate Economics	<i>D</i>	157	International Journal of Urban and Regional Research	<i>D</i>
127	Journal of the Europ. Econ. Ass.	<i>D</i>	158	Mathematical Social Sciences	<i>D</i>
128	Journal of Evolutionary Economics	<i>D</i>	159	Journal of Risk and Insurance	<i>D</i>
129	Journal of Financial Markets	<i>D</i>	160	Insurance: Mathematics and Economics	<i>D</i>
130	Journal of Real Estate Finance and Economics	<i>D</i>	161	Journal of Environmental Planning and Management	<i>D</i>
131	Journal of Forecasting	<i>D</i>	162	Australian Journal of Agricultural and Resource Economics	<i>D</i>
132	Scottish Journal of Political Economy	<i>D</i>	163	International Tax and Public Finance	<i>D</i>
133	Development and Change	<i>D</i>	164	Econometrics Journal	<i>D</i>
134	IMF Staff Papers	<i>D</i>	165	Annals of Regional Science	<i>D</i>
135	Manchester School	<i>D</i>	166	Fiscal Studies	<i>D</i>
136	Journal of Peace Research	<i>D</i>	167	Applied Economics	<i>D</i>
137	European Review of Agricultural Economics	<i>D</i>	168	International Review of Law and Economics	<i>D</i>
138	International Regional Science Review	<i>D</i>	169	Bulletin of Indonesian Economic Studies	<i>D</i>
139	Empirical Economics	<i>D</i>	170	Growth and Change	<i>D</i>
140	Resource and Energy Economics	<i>D</i>	171	China Economic Review	<i>D</i>
141	Journal of Cultural Economics	<i>D</i>	172	National Tax Journal	<i>D</i>
142	Economic Record	<i>D</i>	173	Economics of Transition	<i>D</i>
143	Energy Economics	<i>D</i>	174	Journal of Policy Modelling	<i>D</i>
144	Policy Sciences	<i>D</i>	175	Journal of Macroeconomics	<i>D</i>
145	Food Policy	<i>D</i>	176	Feminist Economics	<i>D</i>
146	Theory and Decision	<i>D</i>	177	Environment and Planning C	<i>D</i>
147	Experimental Economics	<i>D</i>	178	Telecommunications Policy	<i>D</i>
148	Social Choice and Welfare	<i>D</i>	179	International Journal of Finance and Economics	<i>D</i>
149	Journal of Economics (Zeitschrift für Nationalökonomie)	<i>D</i>	180	Journal of Housing Economics	<i>D</i>
150	World Economy	<i>D</i>	181	Macroeconomic Dynamics	<i>D</i>
151	Contemporary Accounting Research	<i>D</i>	182	Journal of African Economies	<i>D</i>

183	Agricultural Economics	<i>D</i>	214	Journal of Portfolio Management	<i>D</i>
184	Review of International Studies	<i>D</i>	215	Natural Resources Journal	<i>D</i>
185	Information Economics and Policy	<i>D</i>	216	Australian Economic Review	<i>D</i>
186	Population Research and Policy Review	<i>D</i>	217	Review of Development Economics	<i>D</i>
187	Environment and Development Economics	<i>D</i>	218	Geneva Risk and Insurance Review	<i>D</i>
188	Contemporary Economic Policy	<i>D</i>	219	Statistical Papers	<i>D</i>
189	Jahrbücher für Nationalökonomie und Statistik	<i>D</i>	220	Defence and Peace Economics	<i>D</i>
190	Canadian Journal of Agricultural Economics	<i>D</i>	221	New Political Economy	<i>D</i>
191	Economic Modelling	<i>D</i>	222	Geneva Papers on Risk and Insurance: Issues and Practice	<i>D</i>
192	Mathematical Methods of Operations Research	<i>D</i>	223	History of Political Economy	<i>D</i>
193	Resources Policy	<i>D</i>	224	Eastern European Economics	<i>D</i>
194	Japanese Economic Review	<i>D</i>	225	Post-Communist Economies	<i>D</i>
195	Economic and Industrial Democracy	<i>D</i>	226	African Development Review	<i>D</i>
196	Journal of Futures Markets	<i>D</i>	227	European Journal of the History of Economic Thought	<i>D</i>
197	German Economic Review	<i>D</i>	228	Applied Economics Letters	<i>D</i>
198	Post-Soviet Affairs	<i>D</i>			
199	European Journal of Industrial Relations	<i>D</i>			
200	Economics and Philosophy	<i>D</i>			
201	Journal of Applied Statistics	<i>D</i>			
202	Journal of Post Keynesian Economics	<i>D</i>			
203	Journal of Labor Research	<i>D</i>			
204	Japan and the World Economy	<i>D</i>			
205	European Review of Economic History	<i>D</i>			
206	European Journal of Health Economics	<i>D</i>			
207	Economics and Human Biology	<i>D</i>			
208	Open Economies Review	<i>D</i>			
209	Economic Development Quarterly	<i>D</i>			
210	Journal of Economic Education	<i>D</i>			
211	Journal of International Trade and Economic Development	<i>D</i>			
212	Journal of Economic Issues	<i>D</i>			
213	Developing Economies	<i>D</i>			

4.5

Nadaraya (1965), Watson (1964) – “Nadaraya – Watson”

(local constant estimator).

$$y_i = g(x_i) + \varepsilon_i, \quad y_i, \quad x_i$$

($X_1 = \text{Kiel}$ $X_2 = \text{ABS}$)

($X_3 = \text{RePEc impact factor}$ $X_4 = 5 \text{ year impact factor}$).

Y :

$$g(x) = \int y g(y/x) dy = \int y \frac{f(y, x)}{f(x)} dy = \frac{m(x)}{f(x)},$$

$$g(y/x)$$

$$m(x) = \int y f(y, x) dy. \quad (\text{constant estimator of the}$$

conditional mean)

Kernel :

$$\hat{g}(x) = \int y \frac{\hat{f}(y, x)}{\hat{f}(x)} dy$$

$$\hat{g}(x)$$

$$\hat{g}(x) = \int y \frac{\hat{f}(y, x)}{\hat{f}(x)} dy = \frac{\sum_{i=1}^n Y_i K\left(\frac{X_i - x}{h_x}\right)}{\sum_{i=1}^n K_i\left(\frac{X_i - x}{h_x}\right)}$$

(IMSE)

$$h_{opt} = \left[\frac{\sigma^2(x) \int f^{-1}(x) dx \int K^2(z) dz}{\int \{2g'(x) f'(x) f^{-1}(x) + g''(x)\}^2} \right]^{1/5} n^{-1/5}$$

$$\int K^2(z) dz = \frac{1}{\sqrt{4\pi}}, \quad \int z^2 K(z) dz = 1 \quad h$$

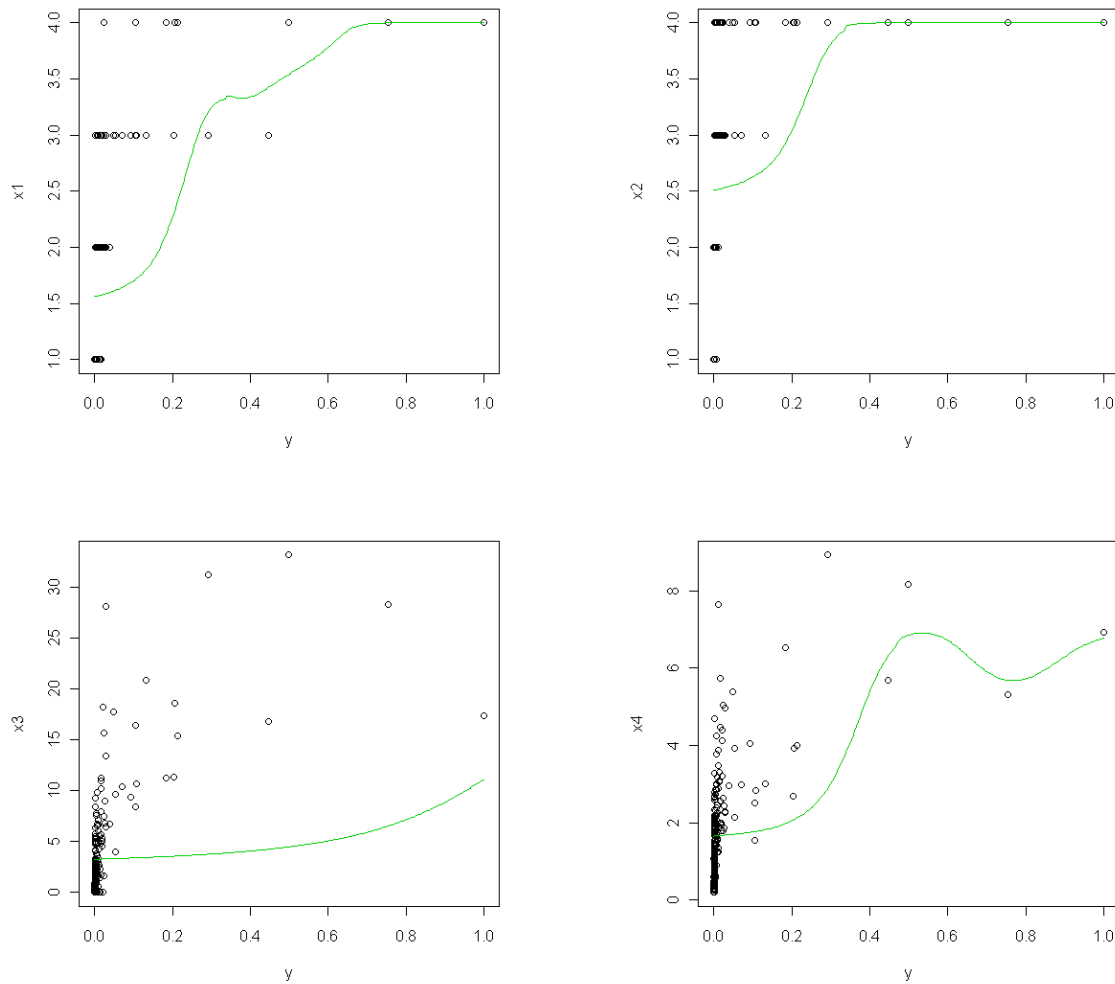
:

$$h_{opt} = (4\pi)^{-1/10} \left(\frac{3}{8} \right)^{-1/5} \pi^{1/10} \sigma n^{-1/5} = 1.059 \sigma n^{-1/5}$$

(Silverman, B., 1986 ; Li, Q. & Racine, J. 2007 ; Watson, G. 1964 ; Nadaraya, A. 1964)

Στο διάγραμμα (4.5) βλέπουμε την επίδραση που έχουν οι μεταβλητές της ποιότητας (Kiel και ABS) και οι μεταβλητές που έχουμε πάρει για βαρύτητα (RePEc impact factor και 5 year impact factor) στην αποδοτικότητα των περιοδικών (τα διαγράμματα έχουν παρουσιαστεί με την χρήση του μαθηματικοποιημένου προγράμματος *R* 2.8.1)

Διάγραμμα (4.5)



Όπως βλέπουμε και από τα διαγράμματα η ποιότητα (X_1, X_2) επηρεάζει περισσότερο την αποδοτικότητα των περιοδικών από ότι η βαρύτητα (X_3, X_4) . Το Kiel επηρεάζει θετικά, αλλά όχι πολύ κιάλας, αφού υπάρχουν και περιοδικά που έχουν βαθμολογίες με τέσσερα αλλά έχουν χαμηλή αποδοτικότητα. Η ABS όμως επηρεάζει περισσότερο την αποδοτικότητα αφού τα πιο πολλά περιοδικά που έχουν βαθμολογία τέσσερα έχουν και πιο υψηλή αποδοτικότητα. Αντίθετα οι μεταβλητές της βαρύτητας (RePEc impact factor και 5 year impact factor) δεν επηρεάζουν τόσο την αποδοτικότητα των περιοδικών, αφού τα περισσότερα περιοδικά που έχουν και υψηλή βαρύτητα δεν έχουν και υψηλή αποδοτικότητα.

4.6 Σύγκριση με την λίστα του Diamond

Ενδιαφέρον θα είχε να γίνει μία σύγκριση μεταξύ την ταξινόμηση των οικονομικών περιοδικών που κάναμε και της λίστας του Diamond (1989), ο οποίος έκανε μία λίστα με 27 οικονομικά περιοδικά τα οποία και ονόμασε ως «πυρήνα» των οικονομικών περιοδικών, η κατάταξη έγινε σύμφωνα με τις αναφορές και τα άρθρα που εκδίδει κάθε περιοδικό (πίνακας 4.6)

Πίνακας (4.6)

	A
Amer. Econ. Rev.	9.3
Brookings Pap. Econ. Activ.	7.1
Can. J. Econ.	6.7
Econometrica	8.9
Econ. Inq.	6.5
Econ. J.	8.9
Economica	> 10.0
Econ. Lett.	4.2
Eur. Econ. Rev.	5.5
Int. Econ. Rev.	9.8
J. Develop. Econ.	5.0
J. Econometrics	6.3
J. Econ. Lit.	5.7
J. Econ. Theor.	9.5
J. Finan. Econ.	5.9
J. Int. Econ.	6.1
J. Labor Econ.	2.5
J. Law Econ.	9.3
J. Math. Econ.	9.0
J. Monetary Econ.	5.0
J. Polit. Econ.	> 10.0
J. Public Econ.	7.6
Oxford Econ. Pap.—New Ser.	8.2
Quart. J. Econ.	> 10.0
Rand J. Econ.	2.3
Rev. Econ. Statist.	9.4
Rev. Econ. Stud.	> 10.0

(Πηγή: Diamond (1989), σελ 8)

(μ μ) : Journal of Political Economy, Econometrica, Quarterly Journal of Economics, Journal of Financial Economics, Journal of Economic Literature, American Economic Review, Review of Economic Studies, Journal of Econometrics, Brookings Papers on Economic Activity, Economic Journal, Rand Journal of Economics, Journal of Economic Theory, Review of Economics and Statistics, Journal of International Economics, Journal of Public Economics Journal of Monetary Economics. μ 7 μ (μ μ) : Journal of Development Economics, European Economic Review, Journal of Law & Economics, International Economic Review, Journal of Labor Economics, Oxford Economic Papers – New Series Economica. 4 μ (μ μ) : Economics Letters, Journal of Mathematical Economics, Economic Inquiry Canadian Journal of Economics.

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μ μ Kiel (Kiel Institute Internal Journal Ranking),
ABS The Association of Business Schools, μ Scopus,
μ RePEc (Research Papers in Economics), ISI (Institute Scientific Information),
EconLit.

Journal of political Economy μ 0.754091, Quarterly Journal of Economics μ 0.497315, Journal of
Econometrics μ 0.445434, Journal of Economic Literature μ 0.291783,
218 μ 0.10. μ μ μ
 μ 0.023939,
 μ ,
 μ μ .

$$y_i = g(x_i) + \varepsilon_i, \quad y_i, \quad x_i$$
 Nadaraya (1965), Watson (1964) – “Nadaraya – Watson”

μ ($X_3 = \text{RePEc impact factor}$ $X_4 = 5 \text{ year impact factor}$).
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 (X_3, X_4) . μ
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Accounting Review	Economics of Education Review
African Development Review	Economics of Transition
Agricultural Economics	Empirical Economics
American Economic Review	Energy Economics
American Journal of Agricultural Economics	Energy Journal
Annals of Regional Science	Environment and Development Economics
Applied Economics	Environment and Planning A
Applied Economics Letters	Environment and Planning C
Australian Economic Review	Environmental & Resource Economics
Australian Journal of Agricultural and Resource Economics	European Economic Review
British Journal of Industrial Relations	European Journal of Health Economics
Brookings Papers on Economic Activity	European Journal of Industrial Relations
Bulletin of Indonesian Economic Studies	European Journal of the History of Economic Thought
Cambridge Journal of Economics	European Review of Agricultural Economics
Canadian Journal of Agricultural Economics	European Review of Economic History
Canadian Journal of Economics	Experimental Economics
China Economic Review	Explorations in Economic History
Contemporary Accounting Research	Feminist Economics
Contemporary Economic Policy	Finance and Stochastics
Defence and Peace Economics	Financial Management
Demography	FinanzArchiv
Developing Economies	Fiscal Studies
Development	Food Policy
Development and Change	Foreign Affairs
Eastern European Economics	Games and Economic Behavior
Ecological Economics	Geneva Papers on Risk and Insurance: Issues and Practice
Econometric Reviews	Geneva Risk and Insurance Review
Econometric Theory	German Economic Review
Econometrica	Growth and Change
Econometrics Journal	Health Economics
Economic and Industrial Democracy	History of Political Economy
Economic Development and Cultural Change	IMF Staff Papers
Economic Development Quarterly	Industrial and Labor Relations Review
Economic Geography	Industrial Relations
Economic History Review	Information Economics and Policy
Economic Inquiry	Insurance: Mathematics and Economics
Economic Journal	International Economic Review
Economic Modelling	International Finance
Economic Policy	International Journal of Finance and Economics
Economic Record	International Journal of Forecasting
Economic Theory	International Journal of Game Theory
Economica	International Journal of Industrial Organization
Economics and Human Biology	International Journal of Production Economics
Economics and Philosophy	International Journal of Urban and Regional Research
Economics Letters	International Labour Review

International Organization	Journal of Institutional and Theoretical Economics
International Regional Science Review	Journal of International Business Studies
International Review of Law and Economics	Journal of International Economics
International Tax and Public Finance	Journal of International Money and Finance
Jahrbücher für Nationalökonomie und Statistik	Journal of International Trade and Economic Development
Japan and the World Economy	Journal of Labor Economics
Japanese Economic Review	Journal of Labor Research
Journal of Accounting and Economics	Journal of Law & Economics
Journal of Accounting Research	Journal of Law, Economics & Organization
Journal of African Economies	Journal of Legal Studies
Journal of Agricultural and Resource Economics	Journal of Macroeconomics
Journal of Agricultural Economics	Journal of Mathematical Economics
Journal of Applied Econometrics	Journal of Monetary Economics
Journal of Applied Statistics	Journal of Money Credit and Banking
Journal of Banking & Finance	Journal of Peace Research
Journal of Business & Economic Statistics	Journal of Policy Analysis and Management
Journal of Comparative Economics	Journal of Policy Modelling
Journal of Conflict Resolution	Journal of Political Economy
Journal of Consumer Research	Journal of Population Economics
Journal of Corporate Finance	Journal of Portfolio Management
Journal of Cultural Economics	Journal of Post Keynesian Economics
Journal of Development Economics	Journal of Productivity Analysis
Journal of Development Studies	Journal of Public Economics
Journal of Econometrics	Journal of Real Estate Finance and Economics
Journal of Economic Behavior & Organization	Journal of Regional Science
Journal of Economic Dynamics & Control	Journal of Regulatory Economics
Journal of Economic Education	Journal of Risk and Insurance
Journal of Economic Geography	Journal of Risk and Uncertainty
Journal of Economic Growth	Journal of the Europ. Econ. Ass.
Journal of Economic History	Journal of the Japanese and International Economies
Journal of Economic Issues	Journal of Transport Economics and Policy
Journal of Economic Literature	Journal of Urban Economics
Journal of Economic Perspectives	Kyklos
Journal of Economic Psychology	Labour Economics
Journal of Economic Surveys	Land Economics
Journal of Economic Theory	Macroeconomic Dynamics
Journal of Economics (Zeitschrift für Nationalökonomie)	Management Science
Journal of Economics and Management Strategy	Manchester School
Journal of Environmental Econ. and Management	Marketing Science
Journal of Environmental Planning and Management	Mathematical Finance
Journal of Evolutionary Economics	Mathematical Methods of Operations Research
Journal of Finance	Mathematical Social Sciences
Journal of Financial and Quantitative Analysis	Michigan Law Review
Journal of Financial Economics	Monthly Labor Review
Journal of Financial Intermediation	National Tax Journal
Journal of Financial Markets	Natural Resources Journal
Journal of Forecasting	New Political Economy
Journal of Futures Markets	Open Economies Review
Journal of Health Economics	Oxford Bulletin of Economics and Statistics
Journal of Housing Economics	Oxford Economic Papers – New Series
Journal of Human Resources	Oxford Review of Economic Policy
Journal of Industrial Economics	Papers in Regional Science

Policy Sciences	Review of Income and Wealth
Population and Development Review	Review of Industrial Organization
Population Research and Policy Review	Review of International Studies
Post-Communist Economies	Review of World Economics
Post-Soviet Affairs	Revue d'Economie Politique
Public Choice	Scandinavian Journal of Economics
Quarterly Journal of Economics	Scottish Journal of Political Economy
Rand Journal of Economics	Small Business Economics
Real Estate Economics	Social Choice and Welfare
Regional Science and Urban Economics	Southern Economic Journal
Regional Studies	Statistical Papers
Research Policy	Telecommunications Policy
Resource and Energy Economics	Theory and Decision
Resources Policy	Transportation Research: Part B: Methodological
Review of Accounting Studies	Urban Studies
Review of Development Economics	World Bank Economic Review
Review of Economic Dynamics	World Bank Research Observer
Review of Economic Studies	World Development
Review of Economics and Statistics	World Economy
Review of Financial Studies	Yale Law Journal

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Date:01/06/11
Time: 03:45
Sample: 1 228

ARTICLES ISI	
Mean	358.4430
Median	264.5000
Maximum	3202.000
Minimum	41.00000
Std. Dev.	344.7724

Date:01/06/11
Time:03:48
Sample: 1 228

DOCUMENTS SCOPUS	
Mean	664.8202
Median	526.5000
Maximum	3522.000
Minimum	49.00000
Std. Dev.	527.1873

Date:01/06/11
Time:03:49
Sample: 1 228

FACTOR REPEC	
Mean	3.624855
Median	1.845500
Maximum	33.15100
Minimum	0.000100
Std. Dev.	5.395743

Date:01/06/11
Time:03:50
Sample: 1 228

FIVE_YEAR IMPFACTOR_IS	
Mean	1.822395
Median	1.424500
Maximum	8.922000
Minimum	0.196000
Std. Dev.	1.429865

Date:01/06/11
Time: 04:02
Sample: 1 228

ISI_TC	
Mean	2278.496
Median	919.0000
Maximum	49204.00
Minimum	23.00000
Std. Dev.	4632.814

Date:01/06/11
Time: 04:08
Sample: 1 228

SCOPUS CITATIONS	
Mean	10344.70
Median	4642.000
Maximum	93735.00
Minimum	64.00000
Std. Dev.	14858.65

Date:01/06/11
Time: 04:04
Sample: 1 228

ISSUES	
Mean	180.3465
Median	148.0000
Maximum	919.0000
Minimum	21.00000
Std. Dev.	129.3926

Date: 01/06/11
Time: 04:08
Sample: 1 228

VOLUMES	
Mean	44.93421
Median	38.00000
Maximum	229.0000
Minimum	7.000000
Std. Dev.	30.18913

Date:01/06/11
Time: 04:09
Sample: 1 228

X1	
Mean	1.113728
Median	0.991296
Maximum	6.687500
Minimum	0.303571
Std. Dev.	0.648490

Date:01/06/11
Time: 04:10
Sample: 1 228

Y1	
Mean	39046.39
Median	4283.778
Maximum	2471320.
Minimum	20.52016
Std. Dev.	181773.0

Date:01/06/11
Time: 04:11
Sample: 1 228

Y2	
Mean	19615.94
Median	1486.183
Maximum	1188832.
Minimum	10.71038
Std. Dev.	98403.43

Date: 01/06/11
Time: 03:47
Sample: 1 228

CRSIN	
Mean	0.023939
Median	0.001521
Maximum	1.000000
Minimum	9.64E-06
Std. Dev.	0.098831