ROMÂNIA
UNIVERSITATEA BABEŞ-BOLYAI CLUJ-NAPOCA
Str. Mihail Kogălniceanu, nr. 1, 400084 Cluj-Napoca
Tel. (00) 40 - 264 - 40.53.00*; 40.53.01; 40.53.02 ; 40.53.22
Fax: 40 - 264 - 59.19.06
E-mail: staff@staff.ubbcluj.ro

RECTORATUL

Universitatea Babeş-Bolyai
Competiţia Excelenţei 2010

Dosar individual

Notă: Toate datele se referă la perioada 2005-2009

Nume, prenume, grad did.	**SANDOR, JOZSEF, CONFERENTIAR DR.**
Facultatea, Catedra	Matematica, Analiza si Optimizare
Domeniul ştiinţific	Matematica
Adresa paginii web personale	www.math.ubcluj.ro/~jsandor
Adresa e-mail	jsandor@math.ubbcluj.ro; jjsandor@hotmail.com

Criteriul I – Output

1. **Articole ştiinţifice publicate în reviste indexate ISI (cu menţionare factorului de impact în cazul celor cotate)**

1. On the Ky fan inequality and related inequalities(with E.Neuman), Bull.Austral.Math.Soc., 72(2005),87-105 [0.369]
2. Notes on the Schur convexity of extended mean values (with F.Qi, S.S. Dragomir), Taiwanese J.Math. 9(2005),411-420 [0.635]
3. On generalized Euler constants and Schlomilch-Lemonnier type inequalities, J.Math.Anal.Appl.328(2007),1336-1342 [1.046]
4. On a problem of Nicol and Zhang (with F. Luca),J.Number Theory,128(2008),1044-1059 [0.529]

2. **Articole ştiinţifice publicate în ISI proceedings**

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2.On the irratinality of certain alternative Smarandache series, Proc. First Intern,Conf. Smarandache Notions in Number theory,American Research Press, New Mexico, 2007, pp.122-123, Editor: M. Oerez, ISBN:1-979585-58-8

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1. An additive analogue of the Euler minimum function, Advanced Studies Contemp.Math.10(2005),53-62
2. On the geometry of equilateral triangles, Forum Geom. 5(2005),107-111
3. A note on certain inequalities for the gamma function, JIPAM 6(2005), no.3,art.61
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6. The sum-of divisors minimum and maximum functions, Notes Number Th.Discr.Math. 11(2005),1-
7. On the Schwab-Borchardt mean, II(with E. Neuman),Math.Pann. 17(2006)49-59
8. Generalizations of Lehman's inequality, Soochow J.Math. 32(2006),301-309
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19. On the Schur convexity of Stolarsky and Gini means, Banach J.Math. Anal. 1(2007),no.2, 212-215
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29. Comparision inequalities for certain bivariate means (with E.Neuman), Appl.Anal. Discr.Math. 3(2009),46-51
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5. **On Lucas partitions, Octogon Math.mag. 13(2005) no.1B, 918-919**
6. **On certain diophantine equations in the work of J. Bolyai (with E. Kiss), Matlap , Cluj, 8(2005), 290-291**
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13. **On even and odd divisors of an integer (with E.Egri), Octogon M.M. 14(2006), no.2, 529-534**
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24. **Monotonic convergence to e via the arithmetic-geometric mean, Math.Mag. 80(2007), no.3, 228-229**
25. **On some arithmetic and real variable functions (with D.D. Somashekara and D.Mamta), Octogon M.M. 15(2007), no.1, 63-73**
26. **On an unpublished convergence criterion of N.H. Abel (with H.K. Sorensen), Octogon M. 15(2007), no.1, 164-168**
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30. **An application of Gauss' quadrature formula (with M. Bencze), Octogon M.M.15(2007), no.1, 276-279**
31. **A Raabe- type theorem for series of positive terms, Octogon M.M. 15(2007), no.1, 284-285**
32. **On inequalities for sum of sigma(k), when k=1,n; Octogon M.M. 15(2007), no.1, 505-508**
33. **On the arithmetical function phi(psi(phi(psi(n)))), Octogon M.M. 15(2007), no.1, 519-521**
34. **On a limit based on Euler's gamma function, Octogon M.M. 15(2007), no.1, 534-535**
35. **On generalizations of the Hadamard integral inequalities, Octogon M.M. 15(2007), no.2, 645-646**
36. **A double inequality for the exponential function, with application in prime number theory, Octogon M.M. 15(2007), no.2, 797-798**
37. **On sigma(sigma(n))+sigma(phi(n)), Octogon M.M. 15(2007), no.2, 889-890**
38. **A note on some integral inequalities (with J.E. pecaric), Octogon M.M. 16(2008), no.1°,141-143**

39. **A note on the arithmetical functions d(n) and sigma(n) (with L. Kovacs), Octogon M.M. 16(1008), no.1°, 270-274**
40. **On almost I-phi perfect numbers(with F. Luca), Octogon M.M. 16(2008), no.1°, 283-285**
41. **A note on inequalities for the internal angle bisectors and other elements of a triangle(with D.M.Milosevic) , Octogon M.M. 16(2008), no.1°, 317-319**
42. **On Popoviciu type inequalities for the psi and sigma functions, Octogon M.M. 16(2008), no.1°, 320-322**
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48. **On certain ineqiualities involving the Euler gamma and digamma functions (with J.Pecaric), Octogon M.M. 16(2008), no.2, 946-948**
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50. **On inequality Product of sigma(phi(k))< n!, Octogon M.M. 16(2008), no.2, 1031-1033**
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53. **On equationn d((n+1)k-1)= (k+1)n+1 (with R. Olah-Gal), Octogon M.M. 16(2008), no.2, 1274**
54. **On the equation sigma(kn)= (k+1)n-k (with I. Sandor), Octogon M.M. 16(2008), no.2, 1304-1306**
55. **On the equation sigma(x)/sigma(y)=d(x)/d(y) (with L. Kovacs), Octogon M.M. 16(2008), no.2, 1313-1315**
56. **On a diophantine equation (with R. Olah-Gal), Octogon M.M. 16(2008), no.2, 1334-1336**
57. **An inequality related to bernoulli's inequality, Octogon M.M. 16(2008), no.2, 1339-1340**
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59. **An extension of Hermite's identity, Octogon M.M. 16(2008), no.2, 1362-1363**
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61. **A note on certain Jordan type inequalities, RGMIA Research Report Collection, 10(2007), no.1, art.no.1**
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63. **Euler and music. A forgotten arithmetic function by Euler, Octogon M.M. 17(2009), no.1, 265-271**
64. **A divisibility property of sigma_k(n), Octogon M.M. 17(2009), no.1, 275-276**
65. **A double inequality for sigma_k(n), Octogon M.M. 17(2009), no.1, 294-296**
66. **On f-amicable pairs (with M. Bencze), Octogon M.M. 17(2009), no.2, 627-636**
67. **An extension of Ky fan's inequality, Octogon M.M. 17(2009), no.2, 714-716**
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69. **Inequalities involving sigma_2(n), Octogon M.M. 17(2008), no.2, 736-740**
70. **An inequality for the number of divisors of n(with L. Kovacs), Octogon M.M. 17(2009), no.2, 746-750**
71. **An inequality for means of two arguments, octogon M.M. 17(2009), no.2, 764-767**
72. **A better lower bound for sigma(n), Octogon M.M. 17(2009), no.2, 767-768**
73. **An improvement of the Bagchi-Gupta arithmetic inequality, Octogon M.M. 17(2009), no.2, 771-773**
74. **An application of the Catalan equation, Octogon M.M. 17(2009), no.2, 965-966**
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76. **On refinements of the arithmetic-geometric-harmonic inequality, Octogon M.M. 17(2009), no.2, 751-754**

77. **A note on Bang 's and Zsigmondy's theorems, Octogon M.M. 17(2009), no.1, 304-305**
78. **The first 100 years of laszlo Kalmar and peter Rozsa (Hungarian), Matlap (Cluj), 9/2005, 321-323**
79. **Mathematicians born 100 years ago, Matlap (Cluj), 10(2006), no, 10, 363-365**
80. **On diophantine equations obtainable from fractions (Hungarian), Matlap(Cluj) 11(2007),no.1,4-5**
81. **An application of the Stieltjes integral (Romanian), Did. Math.23(2005), 307-308**
82. **On the second mean value theorem for integrals II(Romanian), Did.math. 23(2005), 378-380**
83. **A criterion of divisibility with 7 and 13 (Hungarian), Matlap(Cluj), 11(2007), no.7, 250-251**
84. **On the irrationality of N^(1/n), Polygon (Szeged) 16(20070, no.1, 57**
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86. **On k_p perfect nukmbers(Hungarian), Matlap (Cluj) 12(2008), no.8, 297-298**
87. **A Note on certain inequalities (Romanian), Gaz.mat. Ser. B. 113(2008), no.7-8, 344-345**
88. **Wilson's group theoretical theorem (Hungarian), Matlap (Cluj) 13(2009), 330-331**
89. **On problem L:1543 or on Pell equations (Hungarian),Matlap (Cluj), 13(2009), 373-376**
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4. Geometric theorems, diophantine equations and arithmetic functions(second edition),Amazon Digital services,New Mexico, 2008, 298 pp.

6. Cărţi ştiinţifice publicate în edituri naţionale acreditate

7. Editor de volume publicate în edituri naţionale şi internaţionale

8. Brevete internaţionale

9. Brevete naţionale

10. Impact tehnologic al brevetelor: resurse financiare extrabugetare atrase în relaţie cu economia

11. Realizări artistice naţionale şi internaţionale (Domeniul Arte)
(Expoziţii, spectacole, concerte, publicaţii, filme, înregistrări)

Criteriul II – Prestigiu profesional

1. Citări ale articolelor ISI listate la Criteriul I

1.(Bull.Austral.math.Soc.)

a) H. Alzer, Inequalities for Euler's gamma function, Forum Math.20(2008),955-1004

b) N.-L. Wang, The counterpart of Fan's inequality and related results, JIPAM 9(2008), no.4, art. 109

2.(Taiwanese J.math.)

a)N.-G, Zhang et al., Schur convexity of two types of one parameter mean values in n variables, J.Ineq.Appl.volume(2007), ID78175

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c) N. Shi et al., Schur convexity and Schur geometric concavity of Gini means, Comp.M ath.Appl. 57(2009),1862-1869

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a) V. Lampret, Hermite's rule surpasses Simpson's, Intern. Math.Forum 4(2009), no.34, 1663-1686

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2) J. Sandor, Remark on a function which generalizes the harmonic series, C.R. Bulg. Acad. Sci. 41(1988), 19-21

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M. Hassani, Approximation of pi(x) by Psi(x), JIPAM 7(2006), no.1, art.7

3) J. Sandor, Sur la fonction gamma, Publ.CentreRech.Math.Pures , Serie I,21, 1989, pp.4-7

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a) S.L. Qiu and M. Vuorinen. Some properties of the gamma and psi functions, with applications, Math.Comp 74(2005), 723-742

b) G.W. Soules, permanental bounds for nonnegative matrices via decomposition, Linear Algebra Appl. 394(2005), 73-89
c) H. Alzer and C. Berg, Some classes of completely monotonic functions II, Ramanujan J. 11(2006), 225-248
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a) L. Zhu, New inequalities for means in two variables, Math.Ineq.Appl. 11(2008), 229-235

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c) L. Zhu, From chains for mean value inequalities to Mitrinovic's problem, II, Intern. J.math.Educ. Sci.Techn. 36(2005), no.1, 118-125
d) N.Batir and M. Cancan, Sharp inequaities for the constant e and the sequence (1+1/n)^(n), Intern.J.math.Educ.Sci.Techn. 40(2009), no.8, 1101-1109

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b) P. Czinder, Inequalities on two variable Gini and Stolarsky means, Phd Thesis, Univ. of Debrecen, 2005

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d) S. Abramovic et al., On van de Lune-Alzer inequality, J.math.Ineq. 1(20070, no.4, 563-587
e) Jian-She Sun, Further generalizations of inequalities and monotonicity for the ratio of gamma function, Intern.J.Appl. Math.Sci. 2(2005), no.2, 248-252
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h) L. Losonczi, Ratio of Stolarsky means: monotonicity and comparision, Publ.Math.Debrecen, (2009), 1-18
i) X. Li et al., On integral versions of Alzer's inequality and Martins' inequality, Commun Math.Anal. 2(2007), no.1, 47-52
j) Su-L.Zhang et al., Continuous analogue of Alzer's inequality, Tamkang J.math.37(20060, no.2, 105-108

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10) J. Sandor, On the arithmetical functions d_k(n) and d_k*(n), Portugal.math. 53(1996), no.1,107-115

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O. Bordelles, An inequality for the class number, JIPAM 7(2006), no.3, art.87

11) J. Sandor, On the gamma function II, Publ.Centre Rech.math.Pures Serie I, 28(1997),10-12

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12) J. Sandor and Gh. Toader, Some general means, Czechosloval Math.J. 49(124)(1999), no.1, 53-62

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1. Mathematical Inequalities and applications (Croatia)

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1. **J. Ineq.Pure Appl.Math. (Melbourne)**
2. **Advances Nonlinear Var. Ineq.Appl. (Ohio)**
3. **Notes Number Theory Discr.Math. (Sofia)**
4. **Advanced Studies Contemp.Math. (Korea)**
5. **Proc. Jangjeon Math.Sci. (Korea)**
6. **Scientia Magna (China)**
7. Bull.Math.Analysis (Kosovo)
8. Applicable Analysis Discr. Math.(Belgrade)
9. ISST Journal of Math. and Comp. (India)

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10. Participări la programe/granturi finanţate din sursă naţională (se menţionează şi valoarea)

11. Coordonări de programe/granturi finanţate din sursă internaţională (se menţionează şi valoarea)

12. Coordonări de programe/granturi finanţate din sursă naţională (se menţionează şi valoarea)

13. Profesor invitat la universitati de prestigiu, cu titlu oficial

14. Membru în comisii profesionale relevante, cu titlu oficial

-Jangjeon Mathematical Society (Korea): Vicepresedinte (din 2008)
-Membru exterior in Corporatia Doctorilor Academiei Ungare (din 2000)

15. Conferinţe invitate internaţionale

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Cred ca cea mai importanta realizare a mea in aceasta perioada a fost redactarea si publicarea cartilor mele de Handbook of number theory, I, II (2005, 2006) la Editura Springer Verlag.
Aceste lucrari sunt monografii continand cele mai importante rezultate in domeniu, cu conexiuni in multe parti din matematica , matematica aplicata, fizica, etc. In anii care au trecut, ele au fost citate in multe reviste si monografii cu inalt nivel stiintific.

Data: 11 martie 2010 Semnătura: Sandor, J.

Certific validitatea datelor prezentate

Sef de catedră,