

Instituția de învățământ superior ACADEMIA DE STUDII ECONOMICE DIN BUCUREȘTI  
 Facultatea FACULTATEA CIBERNETICĂ, STATISTICĂ ȘI INFORMATICĂ ECONOMICĂ  
 Departamentul de MATEMATICI APLICATE

Poz. Postului 9

Disciplina(e)postului ANALIZĂ MATEMATICĂ; MATEMATICI APLICATE ÎN ECONOMIE(ENGLEZĂ)

Domeniul MATEMATICĂ

**Fișa de verificare a îndeplinirii standardelor pentru ocuparea  
 postului de CONFERENȚIAR UNIVERSITAR,**  
 publicat în Monitorul Oficial al României, partea a III-a, nr. 1242 din 03.12.2021

Candidat SOLOMON OVIDIU Data nașterii: 02.12.1979

Funcția actuală: LECTOR UNIVERSITAR DOCTOR Data numirii în funcția actuală: 30.09.2013

Instituția: ACADEMIA DE STUDII ECONOMICE DIN BUCUREȘTI

**1. Studiile universitare**

Nr.crt.	Instituția de învățământ superior și facultatea absolvită	Domeniul	Perioada	Titlul acordat
1.	Universitatea din București Facultatea de Matematică	Matematică- Informatică	1998- 2003	Licențiat în Matematică- Informatică
2.	Universitatea din București Facultatea de Matematică	Statistică Aplicată și Optimizare	2003-2005	Master în Statistică Aplicată și Optimizare

**2. Studiile de doctorat**

Nr.crt.	Instituția organizatoare de doctorat	Domeniul	Perioada	Titlul științific acordat
1.	Universitatea Politehnică din București Facultatea de Științe Aplicate	Matematică	2007- 2012	diplomă de doctor

**3. Studii și burse doctorale (stagiile de cel puțin 6 luni)**

Nr.crt.	Țara / instituția	Domeniul / specializarea	Perioada	Tipul de bursă
1.				

**4. Atestat de abilitare**

Nr.crt.	Instituția	Domeniul	Perioada	Titlul științific acordat
1.				

**5. Grade didactice / profesionale**

Nr.crt.	Instituția	Domeniul	Perioada	Titlul / postul didactic sau gradul profesional
1.	Academia de Studii Economice din București	Matematică	2013-prezent	Lector univ. dr.

2.	Institutul de Mecanica Solidelor al Academiei Române	Sisteme dinamice	2014-prezent	CS ½ normă
3.	Universitatea Româno-Americană	Matematică	2007-2013	Asistent univ.
4.	Universitatea Româno-Americană	Matematică	2004-2007	Preparator univ.

**6.** *Îndeplinirea obligatorie, în conformitate cu Anexa 1 la Metodologia de concurs, a cerințelor pentru obținerea calificativului FOARTE BINE.*

**7.** *Realizări profesional-științifice*

În vederea dovedirii îndeplinirii standardelor minimale necesare și obligatorii pentru conferirea titlului didactic de conferențiar universitar, realizările profesional-științifice se vor structura conform Anexei 1 la *Metodologia de concurs*, aferentă domeniului științific al postului scos la concurs.

**Data**

18.01.2022

**Candidat,**

Solomon Ovidiu

**Fișa de verificare a îndeplinirii standardelor minimale (CONFERENȚIAR)**  
**LECTOR DR. SOLOMON OVIDIU**  
**DEPARTAMENTUL DE MATEMATICI APLICATE**

Nr. crt	Articol, referință bibliografică	Publicat în ultimii 7 ani	Si	ni	Si /ni
1.	"Theory of (1+1) ES on the RIDGE" - A. Agapie, <b>O. Solomon</b> , M. Giuclea, IEEE Transactions on Evolutionary Computation, <b>2021</b> , Electronic ISSN: 1941-0026, doi:10.1109/TEVC.2021.3111232, <a href="https://ieeexplore.ieee.org/document/9531957">https://ieeexplore.ieee.org/document/9531957</a>	DA	6,392 (2021)	3	2,131
2	„Application of a novel linearization method to compare the on–off control strategies modeled by piecewise linear systems”-T. Sireteanu, <b>O. Solomon</b> , AM. Mitu, M. Giuclea, Journal of Vibration and Control, 26(23–24) 2125–2135, <b>2020</b> , ISSN: 1077-5463 <a href="https://journals.sagepub.com/doi/abs/10.1177/1077546320915331">https://journals.sagepub.com/doi/abs/10.1177/1077546320915331</a>	DA	1,326 (2017)	4	0,332
3.	„A Linearization Method of Piecewise Linear Systems Based on Frequency Domain Characteristics With Application to Semi-Active Control of Vibration”- T. Sireteanu, <b>O. Solomon</b> , A. M. Mitu, M. Giuclea, 140(6), Journal of Vibration and Acoustic, pag. 1-14, <b>2018</b> , ISSN: 1048-9002, <a href="https://asmedigitalcollection.asme.org/vibrationacoustics/article-abstract/140/6/061006/449608">https://asmedigitalcollection.asme.org/vibrationacoustics/article-abstract/140/6/061006/449608</a>	DA	1,348 (2017)	4	0,337
4.	„Statistical Linearization of Hysteretic Systems Described by the Ramberg-Osgood Model”- A. M. Mitu, T. Sireteanu, M. Giuclea, <b>O. Solomon</b> , Journal of Engineering Mechanics142(9), 04016066, <b>2016</b> , ISSN: 0733-9399, <a href="https://ascelibrary.org/doi/abs/10.1061/(ASCE)EM.1943-7889.0001122">https://ascelibrary.org/doi/abs/10.1061/(ASCE)EM.1943-7889.0001122</a>	DA	1,837 (2020)	4	0,459
5.	„Simulation of Wide-Sense Stationary Random Time-Series with Specified Spectral Densities ”- A. M. Mitu, T. Sireteanu, M. Giuclea, <b>O. Solomon</b> , Journal of Vibration and Acoustic, 138(3), pag. 1-12, <b>2016</b> , ISSN: 1048-9002, <a href="https://asmedigitalcollection.asme.org/vibrationacoustics/article-abstract/138/3/031011/472577">https://asmedigitalcollection.asme.org/vibrationacoustics/article-abstract/138/3/031011/472577</a>	DA	1,348 (2017)	4	0,337
6.	„A comparative study of the dynamic behavior of Ramberg-Osgood and Bouc-Wen hysteresis models with application to seismic protection devices” – T. Sireteanu, A. M. Mitu, M. Giuclea, <b>O. Solomon</b> , Engineering Structures, vol. 76, <b>2014</b> , pag. 255-269, ISSN 0141-0296	NU	2,165 (2020)	4	0,541

	<a href="http://www.sciencedirect.com/science/article/pii/S0141029614004039">http://www.sciencedirect.com/science/article/pii/S0141029614004039</a>				
Total				$S_{recent} =$	3,596
				$S =$	4,137

$$S_{recent} = 3,596 \geq 1,5$$

$$S = 4,137 \geq 2,5$$

Nr. Crt.	Articolul citat, referință bibliografică	Revista și articolul în care a fost citat	$S_i$
1	„A comparative study of the dynamic behavior of Ramberg-Osgood and Bouc-Wen hysteresis models with application to seismic protection devices” – T. Sireteanu, A. M. Mitu, M. Giuclea, O. Solomon, Engineering Structures, vol. 76, 2014, pag. 255-269, ISSN 0141-0296 <a href="http://www.sciencedirect.com/science/article/pii/S0141029614004039">http://www.sciencedirect.com/science/article/pii/S0141029614004039</a>	“Test and evaluation of modified TADAS devices with different grades of steel”, L. Zongjing, S. Ganping, <b>Earthquake Engineering and Engineering Vibration</b> , 19, 451–464, 2020, <a href="https://doi.org/10.1007/s11803-020-0573-y">https://doi.org/10.1007/s11803-020-0573-y</a>	0,995 (2020)
		“Generalized hyper-viscoelastic modeling and experimental characterization of unfilled and carbon black filled natural rubber for civil structural applications”, Wei Wei, Yong Yuan, Akira Igarashi, Hongping Zhu, Kaitao Luo, <b>Construction and Building Materials</b> , 253, 2020 <a href="https://www.sciencedirect.com/science/article/abs/pii/S0950061820312162">https://www.sciencedirect.com/science/article/abs/pii/S0950061820312162</a>	1,932 (2021)
		“A proposal for energy dissipative braces with U-shaped steel strips”, Farshad Taiyari Federico M. Mazzolani, Saman Bagheri, <b>Journal of Constructional Steel Research</b> , 154, 110-122, 2019 <a href="https://www.sciencedirect.com/science/article/pii/S0143974X18303304">https://www.sciencedirect.com/science/article/pii/S0143974X18303304</a>	2,057 (2018)
		“Seismic performance assessment of steel building frames equipped with a novel type of bending dissipative braces”, Taiyari Farshad, Mazzolani Federico M., Bagheri, Saman, <b>Steel and composite structures</b> , 33(4), 525-535, 2019, <a href="https://doi.org/10.12989/scs.2019.33.4.525">https://doi.org/10.12989/scs.2019.33.4.525</a>	1,502 (2020)
		„Hysteresis characterization and identification of the normalized Bouc-Wen model”, Li, Zongjing; Shu, Ganping, <b>Structural Engineering And Mechanics</b> , 70(2), 209-219, 2019, <a href="https://doi.org/10.12989/sem.2019.70.2.209">https://doi.org/10.12989/sem.2019.70.2.209</a>	0,864 (2021)

		<p>“Parameter identification of degrading and pinched hysteretic systems using a modified Bouc–Wen model”, Matteo Pellicciari, Giuseppe Carlo Marano, Tommaso Cuoghi, Bruno Briseghella, Davide Lavorato, Angelo Marcello Tarantino, <b>Structure and Infrastructure Engineering</b>, 12(2), 1573-1585, 2018  <a href="https://www.tandfonline.com/doi/abs/10.1080/15732479.2018.1469652">https://www.tandfonline.com/doi/abs/10.1080/15732479.2018.1469652</a></p>	1,699 (2021)
		<p>Parametric identification of the Bouc-Wen model by a modified genetic algorithm: Application to evaluation of metallic dampers, Shu, Ganping, Li, Zongjing, <b>Earthquakes and Structures</b>, 13(4), 397-407, 2017  <a href="http://www.techno-press.org/content/?page=article&amp;journal=earth&amp;volume=13&amp;num=4&amp;ordernum=6">http://www.techno-press.org/content/?page=article&amp;journal=earth&amp;volume=13&amp;num=4&amp;ordernum=6</a></p>	0,805 (2020)
2	<p>„Simulation of Wide-Sense Stationary Random Time-Series with Specified Spectral Densities”- A. M. Mitu, T. Sireteanu, M. Giuclea, <b>O. Solomon</b>, <i>Journal of Vibration and Acoustic</i>, 138(3), pag. 1-12, 2016, ISSN: 1048-9002,  <a href="https://asmedigitalcollection.asme.org/vibrationacoustics/article-abstract/138/3/031011/472577">https://asmedigitalcollection.asme.org/vibrationacoustics/article-abstract/138/3/031011/472577</a></p>	<p>“Nonstationary Vibration Signal Analysis Using Wavelet-Based Time–Frequency Filter and Wigner–Ville Distribution”, Chang Xu, Cong Wang, Wei Liu, <b>Journal of Vibration and Acoustics</b>, vol. 138, nr. 5, 2016, Paper No: VIB-16-1029;  <a href="https://asmedigitalcollection.asme.org/vibrationacoustics/article-abstract/138/5/051009/377825/Nonstationary-Vibration-Signal-Analysis-Using?redirectedFrom=fulltext">https://asmedigitalcollection.asme.org/vibrationacoustics/article-abstract/138/5/051009/377825/Nonstationary-Vibration-Signal-Analysis-Using?redirectedFrom=fulltext</a></p>	1,348 (2017)
3	<p>„Analytical method for fitting the Ramberg-Osgood model to given hysteresis loops”- T. Sireteanu, A. M. Mitu, M. Giuclea, <b>O. Solomon</b>, D. Stefanov, <i>Proceedings of the Romanian Academy, Series A</i>, vol. 15, nr. 1, 2014, pag. 35–42, ISSN 1454-9069.  <a href="http://www.acad.ro/sectii2002/proceedings/doc2014-1/05-Sireteanu.pdf">http://www.acad.ro/sectii2002/proceedings/doc2014-1/05-Sireteanu.pdf</a></p>	<p>“Some Results in Green-Lindsay Thermoelasticity of Bodies with Dipolar Structure”, Marin, Marin; Craciun, Eduard M.; Pop, Nicolae  <b>Mathematics</b>, 8(4), 497, 2020  <a href="https://doi.org/10.3390/math8040497">https://doi.org/10.3390/math8040497</a></p>	0,507 (2021)
		<p>“A proposal for energy dissipative braces with U-shaped steel strips, Farshad Taiyari Federico M. Mazzolani, Saman Bagheri”, <b>Journal of Constructional Steel Research</b>, 154, 110-122, 2019  <a href="https://www.sciencedirect.com/science/article/pii/S0143974X18303304">https://www.sciencedirect.com/science/article/pii/S0143974X18303304</a></p>	2,057 (2018)

	<p>“Shear modulus reduction and damping ratio curves for earth core materials of dams”, Park, Dong Soon; Kishida, Tadahiro, <b>Canadian Geotechnical Journal</b>, 56 (1), 14-22, 2019, DOI: 10.1139/cgj-2017-0529</p>	1,720 (2021)
	<p>“Energy absorption study considering crush test on carbon fiber/epoxy and carbon fiber/polyurethane structural composite beams”, R.M. Di Benedetto B.Z. (Gama) Haque, M.A. Ali, J. Tierney, D. Heider, <b>Composite Structures</b>, 203(1), 242-253, 2018, <a href="https://doi.org/10.1016/j.compstruct.2018.06.043">https://doi.org/10.1016/j.compstruct.2018.06.043</a></p>	3,336 (2017)
	<p>“Prediction of fatigue crack growth life under variable-amplitude loading using finite element analysis”, Amina Remadi, Ahmed Bahloul, Chokri Bouraoui, <b>Comptes Rendus Mécanique</b> 347(8), 576-587, 2019, <a href="https://doi.org/10.1016/j.crme.2019.06.008">https://doi.org/10.1016/j.crme.2019.06.008</a></p>	1,143 (2017)
	<p>“Seismic performance assessment of steel building frames equipped with a novel type of bending dissipative braces”, Farshad Taiyari, Federico M. Mazzolani and Saman Bagheri, <b>Steel and Composite Structures</b> 33 (4), 525-535, 2019, <a href="http://dx.doi.org/10.12989/scs.2019.33.4.525">http://dx.doi.org/10.12989/scs.2019.33.4.525</a></p>	1,595 (2017)
<p>“Generation of stationary Gaussian time series compatible with given power spectral density” - M. Giuclea, A. M. Mitu, <b>O. Solomon</b>, Proceedings of the Romanian Academy, Series A, vol. 15, nr. 3, 2014, pag. 292-299, ISSN 1454-9069 <a href="http://www.acad.ro/sectii2002/proceedings/doc2014-3/10-mitu.pdf">http://www.acad.ro/sectii2002/proceedings/doc2014-3/10-mitu.pdf</a></p>	<p>“Random Noise Generation Using Fourier Series”, Jared A. Grauer, <b>Journal of Aircraft</b>, Vol. 5, No. 4, 2018, <a href="https://doi.org/10.2514/1.C034616">https://doi.org/10.2514/1.C034616</a></p>	1,044 (2017)

4	<p>„Some typical shapes of hysteretic loops using the Bouc-Wen model”, <b>O. Solomon</b>, Journal of Information Systems &amp; Operations Management, 7(1), 1-9, 2013,  <a href="http://www.rebe.rau.ro/RePEc/rau/jisomg/Su13/JISOM-SU13-A8.pdf">http://www.rebe.rau.ro/RePEc/rau/jisomg/Su13/JISOM-SU13-A8.pdf</a></p>	<p>“Linear disturbance observer based sliding mode control for active suspension systems with non-ideal actuator”, Utkarsh S.Pusadkar, Sushant D. Chaudhari, P. D. Shendge, S. B. Phadke, <b>Journal of Sound and Vibration</b>, 442, 428-444, 2019  <a href="https://doi.org/10.1016/j.jsv.2018.11.003">https://doi.org/10.1016/j.jsv.2018.11.003</a></p>	2,184 (2017)
5	<p>„Application of a novel linearization method to compare the on–off control strategies modeled by piecewise linear systems”-T. Sireteanu, <b>O. Solomon</b>, AM. Mitu, M. Giuclea, Journal of Vibration and Control, 26(23–24) 2125–2135, 2020, ISSN: 1077-5463  <a href="https://journals.sagepub.com/doi/abs/10.1177/1077546320915331">https://journals.sagepub.com/doi/abs/10.1177/1077546320915331</a></p>	<p>“Constraint optimization of nonlinear McPherson suspension system using genetic algorithm and ADAMS software”, Arash Vahedi, Ali Jamali, <b>Journal of Vibration and Control</b>, 2021,  <a href="https://doi.org/10.1177/10775463211026036">https://doi.org/10.1177/10775463211026036</a></p>	1,326 (2017)
6	<p>"Theory of (1+1) ES on the RIDGE" - A. Agapie, <b>O. Solomon</b>, M. Giuclea, IEEE Transactions on Evolutionary Computation, <b>2021</b>, Electronic ISSN: 1941-0026, doi:10.1109/TEVC.2021.3111232,  <a href="https://ieeexplore.ieee.org/document/9531957">https://ieeexplore.ieee.org/document/9531957</a></p>	<p>"Spherical Distributions Used in Evolutionary Algorithms", Agapie, Alexandru, <b>Mathematics</b> 9, no. 23: 3098. 2021,  <a href="https://doi.org/10.3390/math9233098">https://doi.org/10.3390/math9233098</a></p>	0,507 (2021)
7	<p>“A statistical linearization method of hysteretic systems based on Rayleigh distribution”, T Sireteanu, <b>O Solomon</b>, AM Mitu, M Giuclea, Proceedings of the Romanian Series A 14(4):335–342, 2013,  <a href="https://academiaromana.ro/sectii2002/proceedings/doc2013-4/10-Sireteanu.pdf">https://academiaromana.ro/sectii2002/proceedings/doc2013-4/10-Sireteanu.pdf</a></p>	<p>“Material modeling of frequency, magnetic field and strain dependent response of magnetorheological elastomer”, Poojary, U.R., Gangadharan, K.V., <b>Journal of Materials Science</b>, <b>56</b>, 15752–15766 (2021),  <a href="https://doi.org/10.1007/s10853-021-06307-0">https://doi.org/10.1007/s10853-021-06307-0</a></p>	1,272 (2017)

8	“On the linearization of experimental hysteretic loops”, Tudor Sireteanu, Marius Giuclea, <b>Ovidiu Solomon</b> , 2010/2/20, The Romanian Journal of Technical Sciences. Applied Mechanics., Volumul 55, Numărul 1, Pagini 63-72, <a href="https://rjts-applied-mechanics.ro/index.php/rjts/article/view/72/74">https://rjts-applied-mechanics.ro/index.php/rjts/article/view/72/74</a>	“Material modeling of frequency, magnetic field and strain dependent response of magnetorheological elastomer”, Poojary, U.R., Gangadharan, K.V., <b>Journal of Materials Science</b> , <b>56</b> , 15752–15766 (2021), <a href="https://doi.org/10.1007/s10853-021-06307-0">https://doi.org/10.1007/s10853-021-06307-0</a>	1,272 (2017)
9	„Statistical Linearization of Hysteretic Systems Described by the Ramberg-Osgood Model”- A. M. Mitu, T. Sireteanu, M. Giuclea, <b>O. Solomon</b> , Journal of Engineering Mechanics 142(9), 04016066, <b>2016</b> , ISSN: 0733-9399, <a href="https://ascelibrary.org/doi/abs/10.1061/(ASCE)EM.1943-7889.0001122">https://ascelibrary.org/doi/abs/10.1061/(ASCE)EM.1943-7889.0001122</a>	“Experimental investigation and analytical model of cross-laminated timber wall with coupled U-shaped flexural plate connectors”, Binhui Lu, Weidong Lu, Mingming Zhong, Weiqiang Wu, Peng Zhou, <b>Construction and Building Materials</b> , Volume 307, 2021, 124984, ISSN 0950-0618, <a href="https://doi.org/10.1016/j.conbuildmat.2021.124984">https://doi.org/10.1016/j.conbuildmat.2021.124984</a>	1,932 (2021)
<b>Total</b>			<b>C = 21</b>

**C = 21 ≥ 6**

### **Granturi granturi/proiecte câștigate prin competiție**

#### **a) internațională**

1. Future Policy Modeling (FUPOL), FP 7 Program-Ec, No. 287119, 2011-2013, membru

#### **b) națională**

1. Corelarea politicilor macroeconomice cu cele din domeniul cercetare-dezvoltare-inovare(CDI) în vederea accelerării procesului de convergență către structurile europene, program de excelență, nr.2 –CEEX-06-8-75/26.07.2006, membru

2. Inovarea și creșterea competitivității-vectori fundamentali ai progresului economico-social al României, PNCDI\_II, Contract NR: 91-071/2007, 16.12.2007-25.11.2008, membru

3. Dezvoltarea și Implementarea Sistemelor Integrate de Management în Domeniul Energiei DI-SIM, PNCDI\_II, Nr. 92-023/14.09.2007, membru

4. Uncertainty, Complexity and Financial Stability, PN-II-ID-PCE-2011-3-1054, 01.12.2011-31.12.2013; 01.01.2013-31.12.2013, membru

5. PN II- Parteneriate în domenii prioritare, UEFISCDI, nr. 77/17.09.2014, Protecția seismică a structurilor cu sisteme de contravânturi disipative echipate cu amortizoare cu fluid nano-micro magnetoreologic, 2014-2016, membru

6. PN II- Parteneriate în domenii prioritare, UEFISCDI, Nr. 112/16.09.2014, Dispozitive mecanice și soluții tehnice pentru reducerea riscului seismic al construcțiilor din România, 2014-2016, membru

**N<sub>id</sub> = 0, N<sub>nd</sub> = 0, N<sub>im</sub> = 1, N<sub>nm</sub> = 6, N = 2·0 + 0 + 0,5·1 + 0,25·6 = 2 ≥ 1**