



## Europass Curriculum Vitae

### Personal information

First name(s) / Surname(s) **Constantinescu Constanta Dana**  
Address(es) 64, Imparatul Traian Street, 200530 Craiova, Romania  
Telephone(s) 0040746117070 0040351422287  
E-mail dconsta@yahoo.com  
Nationality Romanian  
Date of birth 26/04/1957  
Gender F

### Work experience

Xx years  
Dates 2003 to 2016  
Occupation or position held Associate professor  
Main activities and responsibilities Research and teaching in Department of Applied Mathematics, University of Craiova. Teaching Courses: Seminars  
Name and address of employer University of Craiova, 13, A.I. Cuza Street, 200585, Craiova, Dolj, Romania  
Type of business or sector Research and HigherEducation  
Dates 1999 to 2003  
Occupation or position held Lecturer  
Main activities and responsibilities Research and teaching in Department of Applied Mathematics, University of Craiova  
Name and address of employer University of Craiova, 13, A.I. Cuza Street, 200585, Craiova, Dolj, Romania  
Type of business or sector Research and Higher Education  
Dates 1990 to 1999  
Occupation or position held Assistant professor  
Main activities and responsibilities Research and teaching in Department of Applied Mathematics, University of Craiova.  
Name and address of employer University of Craiova, 13, A.I. Cuza Street, 200585, Craiova, Dolj, Romania  
Type of business or sector Research and Higher Education  
Dates 1980 to 1990  
Occupation or position held Teacher of Mathematics  
Main activities and responsibilities Teaching  
Name and address of employer Liceul Industrial nr 1 Craiova  
Type of business or sector Teaching

### Education and training

Dates 1992-1999  
Title of qualification awarded Doctor in mathematics  
Principal subjects/occupational skills covered Mathematical Analysis , Dynamical systems  
Name and type of organisation providing education and training University of Craiova, Romania  
Level in national or international classification ISCED 8

Dates 1976-1980  
 Title of qualification awarded Diploma in mathematics  
 Principal subjects/occupational skills covered Mathematics, Informatics  
 Name and type of organisation providing education and training University of Craiova  
 Level in national or international classification ISCED 7

**Personal skills and competences**

Mother tongue(s) **Romanian**

Other language(s)

Self-assessment / Official certificate

European level (\*)

**English**

**French**

Understanding			Speaking				Writing	
Listening		Reading		Spoken interaction		Spoken production		
B2	Independent user	C2		C2		C2		C2
C2		C2		C2		C2		C2

Levels: A1/A2: Basic user - B1/B2: Independent user - C1/C2 Proficient user

(\*) [Common European Framework of Reference for Languages](http://www.cedefop.europa.eu/en/files/quest_doc/CEFR/CEFR.pdf).

Social skills and competences

Works well in teams

Driving licence

B category

Organisational skills and competences

Attention to details, Focus oriented

Computer skills and competences

Good command of Microsoft Word, Latex, Matlab, Mathematica

Domains of competence

Dynamical systems, Mathematical Modelling, Numerical methods

**Additional informations**

Memberships

SSMR (member)

Awards	<p>UEFISCDI awards in 2013, for the papers ON THE ACCURACY OF SOME MAPPING TECHNIQUES USED TO STUDY THE MAGNETIC FIELD DYNAMICS IN TOKAMAKS (NUCL. FUSION 48 (2008) 024017) and EXPLICIT NEAR-SYMPLECTIC MAPPINGS OF HAMILTONIAN SYSTEMS WITH LIE-GENERATING FUNCTIONS ( J. PHYS. A: MATH. THEOR. 41 (2008) 115202)</p> <p>UEFISCDI awards in 2015 or the paper BIFURCATIONS AND FAST-SLOW DYNAMICS IN A LOW-DIMENSIONAL MODEL FOR QUASI-PERIODIC PLASMA PERTURBATIONS (<i>Romanian Reports in Physics, Vol. 67, No. 3, P. 1049–1060, 2015</i>)</p>
Grants	<p>Local Coordinator of the grant „Dynamical Systems and their applications”, cod PIRSES-GA-2012 (Marie Curie Actions, People International Research Staff Exchange Scheme) 01/10/2012- 30/09/2016</p> <p>Member of the grants</p> <ol style="list-style-type: none"> <li>1) „Participarea Romaniei la EUROfusion WPENR si cercetari complementare (WPENR-RO)”, 1EU-10/05.06. 2014, AA Nr 1/2017 (2017)</li> <li>2) „Participarea Romaniei la EUROfusion WPENR si cercetari complementare (WPENR-RO)”, 1EU-10/05.06. 2014, AA Nr 1/2016 (2016)</li> <li>3) „Participarea Romaniei la EUROfusion WPENR si cercetari complementare (WPENR-RO)”, 1EU-10/05.06. 2014, AA Nr 1/2015 (2015)</li> <li>4) “Participarea Romaniei la EUROfusion WPENR si cercetari complementare (WPENR-RO)”, 1EU-10/05.06. 2014 (2014)</li> <li>5) “Dust dynamics and transport in SOL turbulence”, WP14-ER-01/Hellenic Republic-01 (2014)</li> <li>6) “Anomalous transport in turbulent plasmas, Stochastic processes in turbulent plasmas”, 1EU-2/11.08.2008 (2008-2013)”</li> <li>7) “Anomalous transport in turbulent plasmas”, NUC-INT(FUS)/F3 (2002-2007)</li> <li>8) “Structuri coerente versus comportament haotic in sisteme neliniare complexe”, CEEX, Contract nr. C240 / 2005 (2005-2008)</li> <li>9) Laborator de cercetare si modelare in matematici aplicate, Proiect Impact cu nr. 434, aprobat in sesiunea ianuarie 2007</li> <li>10) Cercetari teoretice si experimentale privind telecomanda vocala a sistemelor de actionare a instalatiilor de ridicat folosind tehnici neuro-fuzzy, CNCSIS 2006</li> <li>11) “Metode numerice in ecuatii neliniare” CNCSIS, cod 734 Contract:34677/2005 (2005)</li> <li>12) “Ecuatii de evolutie si conditii de integrabilitate pentru sisteme dinamice”, CNCSIS, cod734, contract nr 40202/2003 (2004-2004)</li> <li>13) “Structuri dinamice complexe in sisteme neliniare”, CERES, Contract C3-7 / 2003, (2003-2005)</li> <li>14) Teoria sistemelor hamiltoniene și aplicații în fizica particulelor elementare CNCSIS 2002, cod 1, Contract: 33451/2002</li> <li>15) Metode algebrice, topologice, variaționale și de ordine în studiul analizei și al analizei funcționale, Contract cu CNCSU nr. 4006/77C/A2/1995.</li> <li>16) Metode algebrice, topologice, variaționale și de ordine în studiul analizei și al analizei funcționale, Contract cu CNCSU nr. 3006/14C/B5/1994</li> </ol>
Citations	140 citations in ISI papers, 290 citations in Scopus papers (h index=8)
Courses (taught)	Mathematical Analysis, Special Chapters of Mathematics (at undergraduate level, at Faculty of Electrical Engineering) Mathematics (at undergraduate level, at Faculty of Chemistry)
Certificates	Language certificates (French, English)
Memberships	SSMR member, ROMAI member
Conferences attended	32 Conferences since 1991

Publications (In an Annex, at the end of CV, or inserted below.)

Monographs:

D. Constantinescu, *Haos, Fractali si Aplicații*, Seria Matematică Aplicată și Industrială, Univ. Pitești, Editura TheFlower-Power Pitești, 2003, ISBN 973-85785-5-8, Recenzată Mathematical Review, nr. 201 38 57

**Textbooks for students**

- [1] M. Predoi, D. Constantinescu, M. Racilă  
Teme de calcul diferențial  
Editura Sitech Craiova, 2000, ISBN 973-8025-43-5  
Reeditata Editura Sitech Craiova, 2003, ISBN 973-657-406-7
- [2] M. Predoi, D. Constantinescu, M. Racilă  
Teme de calcul integral  
Editura Sitech Craiova, 2000, ISBN 973-8025-88-5  
Reeditata Editura Sitech Craiova 2003, ISBN 973-657-407-5
- [3] D. Constantinescu  
Equations Differentielles-chapitres de mathematiques superiures  
Editura Universitaria Craiova, 2003, ISBN 973-8043-320-0
- [4] M. Predoi, D. Constantinescu, M. Racilă  
Teme de Analiză Matematică Teorie și Aplicații  
Editura Universitaria Craiova 2008, ISBN 978-606-510-233-0
- [5] D. Constantinescu  
Ecuatii diferentiale, elemente teoretice si aplicatii  
Editura Universitaria Craiova 2010, ISBN 978-606-510-847-9
- [6] D. Constantinescu  
Matematici Speciale: manual universitar pentru invatamant cu frecventa redusa  
Editura Universitaria Craiova 2012, ISBN 978-606-14-0410-0

**68 published papers: 12 papers reviewed in Zentralblatt and ?? papers reviewed in Mathematical Reviews  
24 papers are ISI indexed**

#### List of Scientific papers

a) Published in ISI-quoted journals

- [1] Misguich J. H., Reuss J.D., Weyssow B., **Constantinescu D.**, Steibrecher G., Balescu R., M. Vlad, Spineanu F  
*Noble Cantor sets acting as partial internal transport barriers in fusion plasmas*  
Plasma Physics and Controlled Fusion 44/2002, pp. L29-L35  
<http://iopscience.iop.org/0741-3335/44/7>
- [2] E. Petrisor, J. Misguich, **D. Constantinescu**  
*Reconnection in a global model of Poincare map describing the magnetic field lines in a reversed shear tokamak*  
Chaos, Solitons and Fractals 18 2003, pp. 1085-1099  
[http://www.sciencedirect.com/science?\\_ob=PublicationURL&\\_cdi=5300&\\_pubType=J&\\_acct=C000050221&\\_version=1&\\_urlVersi on=0&\\_userid=10&md5=dfe9f771f97c6088edf02db59e988d11&jchunk=18#18](http://www.sciencedirect.com/science?_ob=PublicationURL&_cdi=5300&_pubType=J&_acct=C000050221&_version=1&_urlVersi on=0&_userid=10&md5=dfe9f771f97c6088edf02db59e988d11&jchunk=18#18)
- [3] Misguich J. H. , Reuss J. D., Weyssow B., **D.Constantinescu**, Steinbrecher G., Balescu R., M. Vlad, Spineanu F.  
*Noble internal transport barriers and radial subdiffusion of toroidal magnetic lines*  
Annales de Physique 28 (2003) N°6, pp. 1-101  
[http://www.annphys.org/index.php?option=com\\_toc&url=/articles/anphys/abs/2003/06/contents/contents.html](http://www.annphys.org/index.php?option=com_toc&url=/articles/anphys/abs/2003/06/contents/contents.html)
- [4] **D.Constantinescu**, R. Constantinescu  
*Transport barriers and diffusion phenomena for the magnetic field lines in Tokamak*,  
Physica Scripta , T118 (2005), pp. 244-250  
<http://iopscience.iop.org/1402-4896/2005/T118>
- [5] O. Dumbrajs, V. Igochine, **D. Constantinescu**, H. Zohm, and ASDEX Upgrade team  
*Stochastization as a possible cause of fast reconnection in the frequently interrupted regime of neoclassical tearing modes*  
Physics of Plasmas 12 (2005), issue 11, 110704 (4 pages)  
<http://pop.aip.org/resource/1/phpaen/v12/i11> (citat 5 ori)
- [6] **Constantinescu D.**, Misguich J. H., Petrisor E., Pavlenko I.

*Internal Transport Barriers in some Hamiltonian systems modeling the magnetic lines dynamics in tokamak*,

Journal of Physics, Conference series 7 (2005), pp. 233-238

<http://iopscience.iop.org/1742-6596/7/1>

- [7] Igochine V., Dumbrajs O., **Constantinescu D.**, Zohm Z., Zvejnieks G. and ASDEX-Upgrade team  
*Stochastization as a possible cause for fast reconnection during MHD mode activity in the ASDEX Upgrade tokamak*,  
Nuclear Fusion, **46** (2006), pp 741-751  
<http://iopscience.iop.org/0029-5515/46/7>  
doi: [10.1088/0029-5515/46/7/006](https://doi.org/10.1088/0029-5515/46/7/006)
- [8] **D Constantinescu**, O Dumbrajs, V Igochine, B Weyssow  
*On the accuracy of some mapping techniques used to study the magnetic field dynamics in tokamaks*  
Nuclear Fusion 48 (2008) 024017 (9pp)  
<http://iopscience.iop.org/0029-5515/48/2>  
doi: [10.1088/0029-5515/48/2/024017](https://doi.org/10.1088/0029-5515/48/2/024017)
- [9] Y. Kominis, K. Hizanidis, **D. Constantinescu**, O. Dumbrajs,  
*Explicit near-symplectic mappings of Hamiltonian systems with Lie-generating functions*,  
J. Phys. A: Math. Theor. 41 (2008) 115202.  
<http://iopscience.iop.org/1751-8121/41/11/115202/>  
doi: [10.1088/1751-8121/41/11/115202](https://doi.org/10.1088/1751-8121/41/11/115202)
- [10] **D Constantinescu**  
*Anticontrol techniques for systems of Lorenz type*,  
Romanian Journal of Physics, vol 53, nr 9-10/2008, pp99-106  
[http://www.nipne.ro/rjp/2008\\_53\\_9-10/1069\\_1076.pdf](http://www.nipne.ro/rjp/2008_53_9-10/1069_1076.pdf)
- [11] G. Tigan, **D. Constantinescu**,  
*Heteroclinic orbits in the T and the Lü systems*  
Chaos, Solitons and Fractals 42 (2009) 20–23  
Doi: [10.1016/j.chaos.2008.10.024](https://doi.org/10.1016/j.chaos.2008.10.024)  
[http://www.sciencedirect.com/science?\\_ob=PublicationURL&\\_tockey=%23TOC%235300%232009%23999579998%231295051%23FLA%23&\\_cdi=5300&\\_pubType=J&\\_auth=y&\\_acct=C000050221&\\_version=1&\\_urlVersion=0&\\_userid=10&md5=2ba49c9264077c37f257af7109b3d68c](http://www.sciencedirect.com/science?_ob=PublicationURL&_tockey=%23TOC%235300%232009%23999579998%231295051%23FLA%23&_cdi=5300&_pubType=J&_auth=y&_acct=C000050221&_version=1&_urlVersion=0&_userid=10&md5=2ba49c9264077c37f257af7109b3d68c)
- [12] M. Negrea, I. Petrisor, **D. Constantinescu**,  
*Aspects of the diffusion of electrons and ions in tokamak plasma*  
Romanian Journal of Physics, vol 55, nr 9-10/2010, pp 1013-1024  
[http://www.nipne.ro/rjp/2010\\_55\\_9-10/1013\\_1024.pdf](http://www.nipne.ro/rjp/2010_55_9-10/1013_1024.pdf)
- [13] **D. Constantinescu**, M. Negrea, I. Petrisor  
*The study of the sawtooth oscillations in tokamaks using mapping models*  
Romanian Journal of Physics, vol 55, nr 9-10/2010, pp 0951-0960  
[http://www.nipne.ro/rjp/2010\\_55\\_9-10/0951\\_0961.pdf](http://www.nipne.ro/rjp/2010_55_9-10/0951_0961.pdf)
- [14] M.-C. Firpo, **D. Constantinescu**,  
*Study of the interplay between magnetic shear and resonances using Hamiltonian models for the magnetic field lines*,  
Physics of Plasmas **18**, 032506, 2011  
<http://pop.aip.org/resource/1/phpaen/v18/i3?&page=2>  
doi: [10.1063/1.3562493](https://doi.org/10.1063/1.3562493)
- [15] **D. Constantinescu**, O. Dumbrajs, V. Igochine, K. Lackner, R. Meyer-Spasche, H. Zohm, and ASDEX Upgrade Team,  
*A low-dimensional model system for quasi-periodic plasma perturbations*,  
Physics of Plasmas **18**, 062307 (2011)  
doi: [10.1063/1.3600209](https://doi.org/10.1063/1.3600209)
- [16] Andrejs Reinfelds, Olgerts Dumbrajs, Harijs Kalis, Jānis Cepītis, **Dana Constantinescu**,  
*Numerical Experiments with Single Mode Gyrotron Equations, Mathematical Modelling and Analysis* (Print ISSN: 1392-6292), Volume 17 Number 2 (2012), pp. 251-270,  
<http://dx.doi.org/10.3846/13926292.2012.662659>
- [17] **Constantinescu, D.** & Firpo, M.-C.,  
*Modifying locally the safety profile to improve the confinement of magnetic field lines in tokamak plasmas*,  
Nuclear Fusion **52**, 054006 (2012).  
[http://iopscience.iop.org/0029-5515/52/5/054006/pdf/0029-5515\\_52\\_5\\_054006.pdf](http://iopscience.iop.org/0029-5515/52/5/054006/pdf/0029-5515_52_5_054006.pdf)  
doi: [10.1088/0029-5515/52/5/054006](https://doi.org/10.1088/0029-5515/52/5/054006)
- [18] **Constantinescu D.** & Firpo M.-C.  
*Localizing transport barriers in degenerate 3/2 D.O.F. Hamiltonian systems with applications to magnetic confinement fusion*,  
International Journal of Bifurcation and Chaos, Vol 23, No 2 (2013), 1350034

<http://www.worldscientific.com/doi/pdf/10.1142/S021812741350034X>  
[doi:10.1142/S021812741350034X](https://doi.org/10.1142/S021812741350034X)

- [19] B. Weysow, M. Negrea, G. Steinbrecher, I. Petrisor, **D. Constantinescu**, N. Pometescu, M. Vlad, F. Spineanu  
Ideas in fusion plasma physic and turbulence  
*Romanian Reports in Physics*, Vol. 67, No. 2, P. 547–563, 2015  
[http://www.rrp.infim.ro/2015\\_67\\_2/A24.pdf](http://www.rrp.infim.ro/2015_67_2/A24.pdf)
- [20] **Constantinescu D.**, Dumbrajs O., Igochine V., Lackner K., Zohm H,  
*Bifurcations and fast-slow dynamics in a low-dimensional model for quasi-periodic plasma perturbations*  
*Romanian Reports in Physics*, Vol. 67, No. 3, P. 1049–1060, 2015  
[http://www.rrp.infim.ro/2015\\_67\\_3/A27.pdf](http://www.rrp.infim.ro/2015_67_3/A27.pdf)
- [21] Yanqin Wang, Maoan Han, **Dana Constantinescu**,  
*On the limit cycles of perturbed discontinuous planar systems with 4 switching lines*, *Chaos, Solitons and Fractals* 83 (2016), 158-177  
[http://ac.els-cdn.com/S0960077915004063/1-s2.0-S0960077915004063-main.pdf?\\_tid=5456f1ac-f5c4-11e6-a49e-00000aacb361&acdnat=1487413606\\_73f171c959a5cc6812367767b9833b69](http://ac.els-cdn.com/S0960077915004063/1-s2.0-S0960077915004063-main.pdf?_tid=5456f1ac-f5c4-11e6-a49e-00000aacb361&acdnat=1487413606_73f171c959a5cc6812367767b9833b69)
- [22] D. Constantinescu, *Regular versus chaotic dynamics in systems generated by area-preserving maps. Applications to the study of some transport phenomena*, *Romanian Journal of Physics* vol. 61, issue 1-2 (2016), 52-66  
[http://www.nipne.ro/rjp/2016\\_61\\_1-2/0052\\_0066.pdf](http://www.nipne.ro/rjp/2016_61_1-2/0052_0066.pdf)
- [23] D. Constantinescu, I. Petrisor, Generalization of a fractional model for the transport equation including external perturbations, *Romanian Journal of Physics* vol. 61, issue 1-2 (2016), 67-76  
[http://www.nipne.ro/rjp/2016\\_61\\_1-2/0067\\_0076.pdf](http://www.nipne.ro/rjp/2016_61_1-2/0067_0076.pdf)
- [24] G. Tigan, D. Constantinescu, Bifurcations in a family of Hamiltonian systems and associated nontwist cubic maps, *Chaos, Solitons and Fractals* 91, 128–135, 2016  
[http://ac.els-cdn.com/S0960077916301886/1-s2.0-S0960077916301886-main.pdf?\\_tid=9b5df21c-f5c4-11e6-8bf5-00000aab0f27&acdnat=1487413725\\_89f0a310bd17e7fc174716acb0a7ab6b](http://ac.els-cdn.com/S0960077916301886/1-s2.0-S0960077916301886-main.pdf?_tid=9b5df21c-f5c4-11e6-8bf5-00000aab0f27&acdnat=1487413725_89f0a310bd17e7fc174716acb0a7ab6b)

#### **b. Papers published in BDI**

- [1] **D. Constantinescu**, M. Negrea, N. Pometescu, G. Steinbrecher,  
*On the particle diffusion in an electromagnetic fluctuating field*,  
*Journal of Technical Physics* no. 37/1996, pp. 477-483
- [2] **D. Constantinescu**, M. Predoi,  
*The attractors of some Contractive Dynamical Processes*  
*International Journal of Chaos Theory and Applications*, vol4,nr4/1999, pp. 5-15  
<http://neurolab.ing.unirc.it/chaos/>
- [3] **D. Constantinescu**,  
*Regular and Chaotic Dynamics in Non-Autonomous Hamiltonian Systems*  
*Bulgarian Journal of Physics*, 33 (2006) pp 800-809  
<http://www.bjp-bg.com/>
- [4] **D. Constantinescu**, G. Tigan,  
*Exact solutions to a family of Fitzhugh-Nagumo type equations*,  
*Matematicki Bilten* 31 (LVII), 2007 (61–68), Skopje, Makedonija
- [5] **D. Constantinescu**, Gunnar Stefansson,  
*On building a web-based university*,  
*U.S. China Educational Review*, ISSN 1548-6613, USA, December 2010, volume 7 no.12 (<http://www.teacher.org.cn/edu201012.htm>)

#### **c) Papers published in Romanian Journals BDI**

- [1] **D. Constantinescu**  
*On the temporal generic properties of continuous dynamical systems*  
*Analele Facultății de Matematică Informatică Craiova*, 1995, pp 33-42
- [2] **D. Constantinescu**  
*The loss of information in chaotic dynamical systems*  
*Analele Facultății de Matematică Informatică Craiova*, 1997, pp 62-72
- [3] **D. Constantinescu**, M. Predoi  
*An extension of the Banch fixed point theorem and some applications in the theory of dynamical systems*  
*Studia Univ. Babeş Bolyai, Mathematica*, vol XLIV, nr. 4/1999, pp.3-14
- [4] **D. Constantinescu**  
*Chaotic processes in tokamak*  
*Buletinul Științific al Universității Pitești*, 1999, pp.155-158
- [5] **D. Constantinescu**, M. Racilă  
*Using MAPLEV in computer modeling of complex systems*  
*Buletinul științific al Universității Pitești*, 1999, pp 159-164

- [6] **D. Constantinescu**, M. Negrea, I. Petrisor, N. Pometescu:  
**On the perturbation of the q-profile**  
*Physics AUC vol 10/2000, pp. 66-69*
- [7] M. Negrea, I. Petrisor, **D. Constantinescu** N. Pometescu:  
**On the non-symmetric diffusion tensor components**  
*Physics AUC, vol 10/2000, pp. 70-74*
- [8] N. Pometescu , M. Negrea, I. Petrisor, **D. Constantinescu** N. Pometescu:  
 Interference between turbulence effects and neoclassical effects in the entropy production  
*Physics AUC, vol 10/2000, pp. 75-94*
- [9] **D. Constantinescu**, M. Negrea, I. Petrisor, N. Pometescu:  
 On the chaotic magnetic field lines' behavior: the computation of the flux through a Cantorus  
  
*Physics AUC, vol 10/2000, pp. 95-100*
- [10] **D. Constantinescu**, J. H. Misguich , J. D. Reuss:

#### The study of the breaking-up process of a KAM barrier in the Tokamak model

**Physics AUC vol 12/2002, pp. 78-87**

- [13] **D. Constantinescu**, B. Weyssow:  
*Hidden geometrical aspects in the dynamics of nonwist maps,*  
**Physics AUC, vol 14/2004, 151-161**
- [14] **Constantinescu D.**,  
*Non-linear dynamics and the structure of the magnetic field in tokamak*  
*Rom. J. Phys. 50, no. 3-4 (2005), pp 325-336*
- [15] **D. Constantinescu**, J. H. Misguich, J-D Reuss, B. Weyssow  
 The influence of the safety factor on the formation of the internal transport barriers,  
*Physics AUC vol 17 (2007) pp 190-200*
- [16] **D. Constantinescu**, M-C Firpo  
 Mapping models for magnetic configurations in Tokamaks  
*Physics AUC vol 21 (2011) 101-113*
- [17] **D. Constantinescu**, M. Stoicescu  
 Fractal dynamics as long range memory modeling technique  
*Physics AUC vol 21 (2011) 114-120*
- [18] **D. Constantinescu**, M. Negrea, I. Petrisor, Theoretical and numerical aspects of fractional 2D transport equation. Applications in fusion plasma theory, *Physics AUC 24, 2014, 104-115*  
[http://cis01.central.ucv.ro/pauc/vol/2014\\_24/pauc2014\\_104\\_115.pdf](http://cis01.central.ucv.ro/pauc/vol/2014_24/pauc2014_104_115.pdf)
- [19] **D. Constantinescu**, M. Negrea, I. Petrisor, Kinetic theory of the tokamak in the diffusive regime, *Physics AUC 24, 2014, 123-129*  
[http://cis01.central.ucv.ro/pauc/vol/2014\\_24/pauc2014\\_123\\_129.pdf](http://cis01.central.ucv.ro/pauc/vol/2014_24/pauc2014_123_129.pdf)

#### Papers published in Proceedings Volumes

##### a. International conferences

- [1] **D. Constantinescu**, M. Negrea  
*On the stability of some dynamical systems*  
 Proc. of EPAC 94, London, World Scientific, 1994, pp. 1081-1083
- [2] **D. Constantinescu**, R. Constantinescu  
*Quantization of the relativistic particle in electromagnetic field*  
 Proc. of EPAC 94, London, World Scientific, 1994, pp. 1342-1344
- [3] **D. Constantinescu**  
*On the influence of some numerical methods in the study of the dynamical systems*  
 Proc. of EPAC 96, Barcelona, World Scientific, 1996, pp 1441-1443
- [4] **D. Constantinescu**, R. Constantinescu, M. Negrea  
*The relativistic particle in a fluctuating electromagnetic field*  
 Proc. of EPAC 96, Barcelona, World Scientific, 1996, pp 1444-1445
- [5] **D. Constantinescu**, R. Constantinescu  
*Ergodicity and chaos in multiple light reflection*  
 Proceedings of SPIE, vol 2461, 1997, pp.261-265
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