



Curriculum vitae Europass



Informații personale

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Naționalitate(-tăți) Romana
Data nașterii 12.02.1956
Sex Masculin

Institutia angajatoare Universitatea Dunarea de Jos din Galati

Domeniul de competenta asumat Ingineria sistemelor (IS)

Domeniul in care indruma doctorat Ingineria sistemelor

Subdomeniul in care indruma doctorat Informatica Aplicata in Automatica si Robotica

Principalele discipline predate in domeniul de competenta asumat Metode numerice, calcul paralel si distribuit-anul I, studii de licenta, programul: Automatica si Informatica Aplicata (IS-AIA)

Teoria sistemelor in abordare structurala-anul III, IS-AIA

Teoria sistemelor in abordare frecventiala-anul III, IS-AIA

Tehnici de control adaptiv si optimal-anul IV, IS-AIA

Sisteme informatice de conducere avansata a robotilor- anul I, studii de masterat, programul: Sisteme Informatice de Conducere Avansata (IS-SICA);

Conducerea avansata a sistemelor neliniare- Studii doctorale IS;

Tehnici, algoritmi si echipamente de conducere a sistemelor robotice-Studii doctorale IS

Experiența profesională

Perioada 2007-prezent

Funcția sau postul ocupat Conducator de doctorat in domeniul Ingineria Sistemelor, subdomeniul Informatica Aplicata in Automatica si Robotica

Activități și responsabilități principale Predare cursuri in programul de Pregatire Universitara Avansata, conducere activitati de cercetare in programul de Crcetare Universitara Avansata

Numele și adresa angajatorului Universitatea Dunarea de Jos din Galati, Domneasca, 47, Galati, 800008, Romania

Tipul activității sau sectorul de activitate Invatamant superior

Perioada 1999-prezent

Funcția sau postul ocupat	Profesor universitar
Activități și responsabilități principale	Dezvoltare de cursuri si laboratoare universitare, predare, cercetare, conducere doctorate
Numele și adresa angajatorului	Universitatea Dunarea de Jos din Galati, Domneasca, 47, Galati, 800008, Romania
Tipul activității sau sectorul de activitate	Invatamant superior
Perioada	2010-prezent
Funcția sau postul ocupat	Prodecan Facultatea de Automatica, Calculatoare, Inginerie Electrica si Electronica (ACIEE)
Activități și responsabilități principale	Management universitar, Dezvoltare programe de studii
Numele și adresa angajatorului	Universitatea Dunarea de Jos din Galati, Domneasca, 47, Galati, 800008, Romania
Tipul activității sau sectorul de activitate	Invatamant superior
Perioada	2004-2010
Funcția sau postul ocupat	Decan Facultatea de Stiinta Calculatoarelor
Activități și responsabilități principale	Management universitar, Dezvoltare programe de studii
Numele și adresa angajatorului	Universitatea Dunarea de Jos din Galati, Domneasca, 47, Galati, 800008, Romania
Tipul activității sau sectorul de activitate	Invatamant superior
Perioada	1994-1999
Funcția sau postul ocupat	Conferentiar universitar
Activități și responsabilități principale	Dezvoltare de cursuri si laboratoare universitare, predare, cercetare
Numele și adresa angajatorului	Universitatea Dunarea de Jos din Galati, Domneasca, 47, Galati, 800008, Romania
Tipul activității sau sectorul de activitate	Invatamant superior
Perioada	1996-2000
Funcția sau postul ocupat	Decan Facultatea de Nave si Inginerie Electrica (NIE)
Activități și responsabilități principale	Management universitar, Dezvoltare programe de studii
Numele și adresa angajatorului	Universitatea Dunarea de Jos din Galati, Domneasca, 47, Galati, 800008, Romania
Tipul activității sau sectorul de activitate	Invatamant superior
Perioada	1990-1994
Funcția sau postul ocupat	Sef lucrari
Activități și responsabilități principale	Dezvoltare de cursuri si laboratoare universitare, predare, cercetare
Numele și adresa angajatorului	Universitatea Dunarea de Jos din Galati, Domneasca, 47, Galati, 800008, Romania
Tipul activității sau sectorul de activitate	Invatamant superior
Perioada	1983-1990
Funcția sau postul ocupat	Asistent universitar
Activități și responsabilități principale	Dezvoltare de cursuri si laboratoare universitare, predare, cercetare
Numele și adresa angajatorului	Universitatea Dunarea de Jos din Galati, Domneasca, 47, Galati, 800008, Romania
Tipul activității sau sectorul de activitate	Invatamant superior
Perioada	1981-1983
Funcția sau postul ocupat	inginer
Activități și responsabilități principale	Reglaj, integrare sistem de sistem de calcul
Numele și adresa angajatorului	Fabrica de calculatoare electronice, Platforma Pipera, Bucuresti
Tipul activității sau sectorul de activitate	reglaj, integrare calculatoare Independent
Carti publicate	9
Articole publicate	112
Proiecte de cercetare pe baza de contract sau grant	20, la 9 dintre ele director de proiect
Proiecte internationale	3, la unul dintre ele manager partener
Proiecte POSDRU	3, la unul dintre ele manager partener

Stagii de cercetare

15/Nov/2000-15/May/2001 NATO research fellowship, Department of Mechanics, Torino Polytechnics, Italy.
 01/Oct/2002-30/June/2003, NATO research fellowship, Laboratoire d'Automatique Grenoble, INPG-ENSIEG, France.
 15/Sep/2003-15/Mar/2004, NATO research fellowship at Institute of Systems and Robotics, University of Coimbra, Portugal.

Activitatea de cercetare științifică, direcții și rezultate de cercetare

Conducerea adaptivă și cu structură variabilă, utilizând legi de ajustare parametrică compusă;
 Conducerea sistemelor neliniare cu aplicații la roboții mobili și manipolatoare robotice;
 Conducerea avansată, prin tehnici sliding-mode, a manipuletoarelor robotice;
 Conducerea avansată, prin tehnici sliding-mode, a roboților mobili și vehiculelor autonome;
 Conducerea avansată a scaunului cu roțile pentru persoanele cu handicap locomotor;
 Conducerea liniilor flexibile de fabricație deservite de roboți mobili echipați cu manipolatoare robotice.

Educație și formare

Perioada 1990-1993

Calificarea / diploma obținută Diploma de doctor în Sisteme automate

Disciplinele principale studiate / competențe profesionale dobândite Cercetare și dezvoltare în Sisteme automate

Numele și tipul instituției de învățământ / furnizorului de formare Universitatea Dunarea de Jos din Galați, Domneasca. 47, Galați, 800008, România

Nivelul în clasificarea națională sau internațională ISCED 6

Perioada 1976-1981 Menționați separat fiecare formă de învățământ și program de formare profesională absolvite, începând cu cel mai recent. (vezi instrucțiunile)

Calificarea / diploma obținută Diploma de inginer în domeniul electric, specializarea: Automatizări și calculatoare

Disciplinele principale studiate / competențe profesionale dobândite
 -Programarea calculatoarelor (limbaje de nivel înalt, limbaje de asamblare)
 -Calculatoare numerice
 -Teoria sistemelor
 -Identificarea sistemelor
 -Sisteme și echipamente de conducerea proceselor

Numele și tipul instituției de învățământ / furnizorului de formare Universitatea Politehnică București

Nivelul în clasificarea națională sau internațională ISCED 5

Aptitudini și competențe personale

Limba(i) maternă(e) **Limba română**

Limba(i) străină(e) cunoscută(e)

Autoevaluare

Nivel european (*)

Limba engleză

Limba franceză

Înțelegere				Vorbire				Scriere	
Ascultare		Citire		Participare la conversație		Discurs oral		Exprimare scrisă	
C2	Utilizator experimentat	C2	Utilizator experimentat	C2	Utilizator experimentat	C2	Utilizator experimentat	C2	Utilizator experimentat
B2	Utilizator independent	B2	Utilizator independent	B2	Utilizator independent	B2	Utilizator independent	B2	Utilizator independent

(*) [Nivelul Cadrului European Comun de Referință Pentru Limbi Străine](#)

Membru societăți științifice

Membru SRAIT (Societatea română de automatică și informatică tehnică)

Experți și evaluare

-Expert ARACIS, Comisia Științe Ingineresti II, subcomisia Ingineria sistemelor
 -Expert evaluator CNCIS-UEFISCDI

Competențe și abilități sociale	Abilitati de lucru in echipa- dobandite prin participarea la numeroase proiecte de cercetare cu echipa de cercetare, obtinute prin competitie nationala si internationala Abilități de comunicare și de prezentare publică – dobândite prin activitatea didactică și prin participarea la numeroase conferințe și evenimente publice
Competențe și aptitudini organizatorice	Capacități organizatorice – dobândite prin coordonarea unor echipe de cercetare in calitate de director de proiect la Universitatea Dunarea de Jos din Galati; Capacități manageriale – dobândite prin functia de decan al Facultatii de Stiinta Calculatoarelor, si prodecan al Facultatii ACIEE, Universitatea Dunarea de Jos din Galati;
Competențe și aptitudini tehnice	Experiență solida in Ingineria sistemelor: modelare, identificare, proiectare sisteme de conducere, implementare in timp real, Analiza de sistem, integrare si testare.
Competențe și aptitudini de utilizare a calculatorului	Configurarea sistemelor de operare Elaborarea documentelor cu diferite pachete de aplicatii (Microsoft Office, Open Office, editoare web etc).
Competențe și aptitudini artistice	Descrieți aceste competențe și indicați contextul în care au fost dobândite. (Rubrică facultativă, vezi instrucțiunile)
Alte competențe și aptitudini	Competente in conducerea robotilor mobili cu roti motoare, scaunelor cu rotile pentru persoanele cu handicap locomotor si a vehiculelor autonome electrice
Permis(e) de conducere	Categoria B
Informații suplimentare	Referinte si recomandari ale angajatorilor sunt disponibile la cerere
Anexe	Diplomă de Doctor în Sisteme Automate Diplomă de inginer, domeniul Electric, specializarea: Automatizari si Calculatoare

Articole publicate 2003-2016

- Filipescu A.**, Dugard L., Dion J-M., Adaptive gain sliding observer based sliding controller for uncertain parameters nonlinear systems. Application to flexible joint robots, Proceedings of the 42nd IEEE Conference on Decision and Control, CDC03, Maui, Hawaii, USA, Dec, 2003, ISBN: 0-7803-7924-1/03/, pp.3537-3522, Editors: J. Jim Zhu and Thomas Parisini(Proceedings ISI quoted, www.ieeexplore.ieee.org).
- Filipescu, A.** Dugard, L., Stamatescu S.,-Robots control based on parameter identification and adaptive gain smooth sliding observer-controller robots control based on parameter identification and adaptive gain smooth sliding observer-controller, 16th IFAC World Congress, Prague, July 2005, Elsevier IFAC Publication, pp.511-516 (Published in proceedings, ISBN:0-08-045108, proceedings ISI quoted, <http://www.ifac-papersonline.net/Detailed/28636.html>, BDI: www.elsevier.com);
- Filipescu, A.**, Nunes U., Stamatescu S., Discrete-time sliding mode WMR control based on parameter identification, 16th IFAC World Congress, Prague, July 2005, Elsevier IFAC Publication, pp.89-94, (Published in proceedings, ISBN:0-08-045108, Proceedings ISI quoted, <http://www.ifac-papersonline.net/Detailed/28240.html>, BDI:www.elsevier.com).
- Filipescu A.**, Dugard L., Dion J-M., Robots control by adaptive gain smooth sliding observer-controller and parameter identification, Control Engineering and Applied Informatics CEAI, volume 6, number 3, September 2004, pp26-36, ISSN 1454-8658 (Cod CNCSIS 302).
- Filipescu A.**, Dugard L., Dion J-M., Smooth variable structure observer-controller with adaptive gains. Application to robot manipulators control, *European Control Conference, ECC2003, Cambridge, U.K., Sep.2003* (Published in Proceedings, BDI:www.elsevier.com).
- Filipescu A.**, Stancu Al., Stamatescu G., On-line Parameter Estimation and Adaptive Gain Smooth Sliding Observer-Controller for Robotic Manipulator Control, 6th IEEE International Conference on Control and Automation, ICCA 2007, pp.1948-1955, Guangzhou, China, 30/May-1/June/2007, Catalog number: 07EX1625C, ISBN:1-4244-0818-0, Library of Congress: 2006937560, (http://apps.isiknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=2&SID=Q1JdLIIGmcM9ceb5Gop&page=2&doc=13, http://www.ieeexplore.ieee.org/search/freesrchabstract.jsp?tp=&arnumber=4376701&queryText%3DFilipescu+A.%26openedRefinements%3D*%26searchField%3DSearch+All Proceedings ISI quoted, www.ieeexplore.ieee.org, www.scopus.com).
- Filipescu A.**, Stancu A., Filipescu S., Stamatescu G.,- On-line Parameter Estimation in Sliding-mode Control of Pioneer 3-DX Wheeled Mobile Robot, Proceedings of the 7th WSEAS International Conference on Systems Theory and Scientific Computation ISTASC'07, pp72-77 in Vouliagmeni Beach, Athens, Greece, August 24-26, 2007 . ISSN: 1790-5117, ISBN 978-960-8457-98-0, Proceedings + Book published by WSEAS Press that participate in ISI and all the other important international citation indices: www.worldses.org/indexes, (http://apps.isiknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=S26PaJFdEb@8Ho@jhL4&page=2&doc=12 Proceedings ISI quoted, www.ieeexplore.ieee.org)
- Filipescu A.**, Stancu A., Filipescu S., Sliding-mode adaptive control of Pioneer 3-DX wheeled mobile robot *The Annals of "Dunarea de Jos" University of Galati, ISSN 1221-454X, Fascicule III, Electrotehnics, Electronics, Automatic, Informatics*, 2007, pg.71-76 (Cod CNCSIS 482, BDI : www.csa.com/ids70/serials_source_list.php, <http://www.ann.ugal.ro/eeai/index.html>).

9. **Filipescu A.**, Stancu A., Filipescu S.,-Three-machines Power System Control by Smooth Sliding-Mode Observer-Controller, 16th International Symposium on Control Systems and Computer Science, CSCS16, 22-25 May, 2007, Bucharest, Romania. ISBN: 978-973-718-741-3, 978-973-718-742-0, pp.261-266.
10. **Filipescu A.**, Stancu A., Filipescu S.,-Sliding-Mode Adaptive Control of Pioneer 3-Dx Wheeled Mobile Robot, 13th *International Symposium on Modelling, Simulation, and Systems Identification*, Editura Fundatiei Universitare "Dunarea de Jos" Galati, 2007, ISBN 978-973-88413-0-7, ISSN 1843 - 5130, pp 130-135, 21-22 Sep, 2007, Galati, Romania.
11. **Filipescu A.**, Stancu A., Filipescu S.,- Real-time Sliding-mode Adaptive Control of Pioneer 3-DX Wheeled Mobile Robot, 9th International Symposium on Automatic Control and Computer Science, Proceedings, SACCS 2007, 15-18 noiembrie 2007, Iasi, Romania, ISSN 1843-665-X.
12. Susnea I, **Filipescu A**, Vasiliu G., Filipescu S., Path Following, Real-time, Embedded Fuzzy Control of a Mobile Platform Wheeled Mobile Robot, IEEE International Conference on Automation and Logistics, ICAL 2008, 1-3 Sep., Qingdao, China, IEEE ICAL 2008 CD Proceedings, pp.91-96, IEEE Catalog Number: CFP08CAL, ISBN: 978-1-4244-2503-7, Library of Congress: 2008903794 (Proceedings ISI quoted,
http://apps.isiknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=S26PaJFdEb@8Ho@jhl4&page=1&doc=7,
http://www.ieeexplore.ieee.org/search/freesrabstract.jsp?tp=&arnumber=4636158&queryText%3DFilipescu+A.%26openedRefinements%3D*%26searchField%3DSearch+All, www.ieeexplore.ieee.org).
13. **Filipescu A.**, Stancu A., Filipescu S., Stamatescu G., Real-time Sliding-mode Adaptive Control of a Mobile Platform Wheeled Mobile Robot, Proceedings of the 17th World Congress, The International Federation of Automatic Control, Seoul, Korea, July 6-11, 2008, pp 4393-4399, ISBN: 978-3-902661-00-5, ID: 978-1-1234-7890-2/08/\$20.00 © 2008 IFAC, 10.3182/20080706-5-KR-1001.0881, Elsevier IFAC Publication (<http://www.ifac-papersonline.net/Detailed/36455.html>, www.elsevier.com)
14. Susnea I, Vasiliu G, **Filipescu A**, Real-Time, Embedded Fuzzy Control of the Pioneer3-DX Robot for Path Following, Proceedings of 12th WSEAS International Conference on SYSTEMS, Heraklion, Greece, July 22-24, 2008, pp.334-338, ISBN: 978-960-6766-83-1, ISSN: 1790-2769, Published by WSEAS Press (http://apps.isiknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=S26PaJFdEb@8Ho@jhl4&page=2&doc=11, www.wseas.org, www.worldses.org/indexes).
15. Vasiliu G, **Filipescu A**, Stancu AI, Filipescu S, An experiment on using the pioneer 3-dx robot in a multichannel measurement system, 8th WSEAS International Conference on Systems Theory and Scientific Computation (ISTASC'08), Rhodes (Rodos) Island, Greece, August 20-22, 2008, pp.49-55, ISBN: 978-960-8764-83-1, ISSN: 1790-3865, Published by WSEAS Press (http://apps.isiknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=S26PaJFdEb@8Ho@jhl4&page=1&doc=9, www.wseas.org, www.worldses.org/indexes)
16. **Filipescu A**, Susnea I, Stancu AI, Stamatescu G, Path following, real-time, embedded fuzzy control of a mobile platform pioneer 3-DX, 8th WSEAS International Conference on Systems Theory and Scientific Computation (ISTASC'08), Rhodes (Rodos) Island, Greece, August 20-22, 2008, pp. 136-141, ISBN: 978-960-8764-83-1, ISSN: 1790-3865, Published by WSEAS Press (http://apps.isiknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=S26PaJFdEb@8Ho@jhl4&page=1&doc=9, www.wseas.org, www.worldses.org/indexes)
17. Susnea I . Vasiliu G, **Filipescu A**, RFID Digital Pheromones for Generating Stigmergic Behaviour to Autonomous Mobile Robots, 4th WSEAS Int. Conf. on Dynamica Systems and Control (Control '08), CORFU ISLAND, GREECE, October 26-28, 2008, pp.20-24, ISBN 978-960-474-014-7, ISSN: 1790-2769 Proceedings + Book published by WSEAS Press that participate in ISI and all the other important international citation indices: www.worldses.org/indexes, (Proceedings ISI quoted, www.ieeexplore.ieee.org) Published by WSEAS Press.
18. Susnea I. Vasiliu G, **Filipescu A**, Coman G., On the Implementation of a Robotic Assistant for the Elderly. A Novel Approach, 7th WSEAS Int. Conf. on Computational, Intelligence Man-machine Systems and Cybernetics (CIMMACS '08), Cairo, Egypt, December 29-31, 2008, pp.215-220, ISBN 978-960-474-049-9, ISSN: 1790-5117 Proceedings + Book published by WSEAS Press that participate in ISI and all the other important international citation indices: www.worldses.org/indexes, (Proceedings ISI quoted, http://apps.isiknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=S26PaJFdEb@8Ho@jhl4&page=1&doc=6, www.ieeexplore.ieee.org) Published by WSEAS Press
19. Susnea I. **Filipescu A**, Minzu V, Vasiliu G, Virtual Pheromones and Neural Networks based Wheeled Mobile Robot Control, Recent Advances on Systems, Proceedings of the 13th International Conference on Systems WSEAS CSCC Multiconference, ISBN 978-960-474-097-0, ISSN: 1790-2769 Rodos, Greece , JULY 22-24, 2009, pp 511-516 Mathematics and Computers in Science Engineering, A series of Reference Books and Textbook Published by WSEAS Press, http://apps.isiknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=S26PaJFdEb@8Ho@jhl4&page=1&doc=4
20. Susnea I, **Filipescu Adrian**, Filipescu Adriana, Coman G., Wheeled Mobile Robot Control Using Virtual Pheromones, Petroleum-Gas University of Ploiesti Bulletin, Tehnical Series, Vol LXI, no.3/2009, ISSN 1224-8495, pp. 117-126, cod CNCSIS 38.
21. Susnea I. Vasiliu G, **Filipescu A**, Coman G., Radaschin A., Real-Time Control of Autonomous Mobile Robots Using Virtual Pheromones, Proceedings of the 7th Asian Control Conference, Hong Kong, China, August 27-29, 2009, IEEE Catalog Number CFP09832, ISBN:978-89-956056-9-1, pp.1450-1455, http://apps.isiknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=S26PaJFdEb@8Ho@jhl4&page=1&doc=1,
http://www.ieeexplore.ieee.org/search/freesrabstract.jsp?tp=&arnumber=5276352&queryText%3DFilipescu+A.%26openedRefinements%3D*%26searchField%3DSearch+All
22. **Filipescu Adrian**, Susnea I, Filipescu Adriana, Stamatescu G.,Control of Mobile platforms as Robotic Assistants for Elderly, Proceedings of the 7th Asian Control Conference, Hong Kong, China, August 27-29, 2009, IEEE Catalog Number CFP09832, ISBN:978-89-956056-9-1, pp.1456-1461, http://apps.isiknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=S26PaJFdEb@8Ho@jhl4&page=1&doc=2,

- http://www.ieeexplore.ieee.org/search/freesrchabstract.jsp?tp=&arnumber=5276245&queryText%3DFilipescu+A.%26openedRefinements%3D*%26searchField%3DSearch+All
23. Solea R., **Filipescu A.**, Nunes U., Sliding-Mode Control for Trajectory-Tracking of a Wheeled Mobile Robot in Presence of Uncertainties, Proceedings of the 7th Asian Control Conference, Hong Kong, China, August 27-29, 2009, IEEE Catalog Number CFP09832, ISBN:978-89-956056-9-1, pp.1701-1706, http://apps.isiknowledge.com/full_record.do?product=WOS&search_mode=GeneralSearch&qid=1&SID=S26PaJFdEb@8Ho@jhl4&page=1&doc=3, http://www.ieeexplore.ieee.org/search/freesrchabstract.jsp?tp=&arnumber=5276210&queryText%3DFilipescu+A.%26openedRefinements%3D*%26searchField%3DSearch+All
 24. **Filipescu Adrian**, Susnea I, Filipescu Silviu, Stamatescu G., Wheeled Mobile Robot Control Using Virtual Pheromones and Neural Networks, Proceedings of 2009 IEEE International Conference on Control and Automation Christchurch, New Zealand, December 9-11, 2009, IEEE Catalog Number CFP09537, ISBN: 978-1-4244-4707-7, pp: 157-162, Library of Congress:2009904841, http://www.ieeexplore.ieee.org/search/freesrchabstract.jsp?tp=&arnumber=5410442&queryText%3DFilipescu+A.%26openedRefinements%3D*%26searchField%3DSearch+All, http://apps.isiknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=1&SID=S2ene73DABhCcNMLkfA&page=1&doc=3&colname=WOS
 25. **Filipescu Adrian**, Susnea I, Filipescu Adriana, Stamatescu G., Distributed System of Mobile Platform Obstacle Avoidance and Control as Robotic Assistant for Disabled and Elderly, Proceedings of 2009, IEEE International Conference on Control and Automation Christchurch, New Zealand, December 9-11, 2009, IEEE Catalog Number CFP09537, ISBN: 978-1-4244-4707-7, pp: 1886-1891, Library of Congress:2009904841, http://www.ieeexplore.ieee.org/search/freesrchabstract.jsp?tp=&arnumber=5410165&queryText%3DFilipescu+A.%26openedRefinements%3D*%26searchField%3DSearch+All, http://apps.isiknowledge.com/full_record.do?product=UA&search_mode=GeneralSearch&qid=1&SID=S2ene73DABhCcNMLkfA&page=1&doc=4&colname=WOS
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7-08-2017

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