

Dr. habil. ing.

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Profesor universitar

Director departament

Coordonator al DSPLabs

Universitatea Politehnica Timisoara  
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## BIOGRAFIE

### Domenii de interes

- ▶ Achizitia numerica a semnalelor
- ▶ Sisteme si aplicatii de prelucrare numerica a semnalelor
- ▶ Sisteme hardware si software incorporate si timp-real
- ▶ Retele de senzori inteligenti
- ▶ Medii colaborative robotice
- ▶ Procesarea numerica a imaginilor si video
- ▶ Sisteme de telecomunicatii digitale
- ▶ Sisteme multimedia
- ▶ Ingineria asistata de calculator a sistemelor numerice

### Educatie

- 2015, Feb: **Atestatul de abilitare (Dr. habil.)** in *Calculatoare si Tehnologia Informatiei*, Computer and Software Engineering Department, Politehnica University of Timisoara, Romania  
[Ordinul Ministrului Educatiei si Cercetarii Stiintifice, Romania, nr. 3216/18.02.2015]
- 2005, Feb: **Doctor inginer (Cum Laude)** in *Stiinta Calculatoarelor*, Computer and Software Engineering Department, Politehnica University of Timisoara, Romania  
[Ordinul Ministrului Educatiei si Cercetarii, Romania, nr. 3184/07.02.2005]
- 1999 - 2005: **Cursuri specializare** in *Standardele de telecomunicatii mobile GSM si GPRS, Retelele Alcatel GSM si GPRS, Echipamentele Alcatel GSM si GPRS*, Alcatel University Timisoara, Romania
- 1995 - 1996: **Master** in *Ingineria Avansata a Calculatoarelor*, Faculty of Automation and Computers, Politehnica University of Timisoara, Romania
- 1992 - 1994: **Curs optional** in *Pedagogie*, Faculty of Automation and Computers, Politehnica University of Timisoara, Romania
- 1990 - 1995: **Inginer licentiat** in *Ingineria Sistemelor de Calcul*, Faculty of Automation and Computers, Politehnica University of Timisoara, Romania
- 1984 - 1989: **Absolvent liceu** in *Matematica si fizica*, Moise Nicoara Highschool, Arad, Romania

### Mobilitati si stagii

- 2009, Sep: **Colaborare si schimb de experienta**, la *Image and Pervasive Access Lab (IPAL)*, Singapore, 2 saptamani.  
[Prof. Daniel Racoceanu - Co-director laborator; Joo Hwee Lim - Co-director laborator].
- 2008, Aug: **Colaborare si schimb de experienta**, la *Sensing and Modeling Research Lab (SMR) si Video, Image, Vision, Audio Lab (VIVA)*, University of Ottawa, Canada, 2 saptamani.  
[Prof. Pierre Payeur - Director al grupului de cercetare SMART; Prof. Voicu Groza - Director al grupului de cercetare Bio MIP; Prof. Emil Petriu - Director al SMR Lab si Responsabil cu cercetarea pe universitate].
- 2007, Jul: **ALNURI Summer School**, Salzburg Research, Austria, 1 saptamana.  
[Prof. Ulrich Hofmann - Director proiect].
- 2002, Sep: **Microsoft Embedded Crash Course**, University of Cambridge, United Kingdom, 2 saptamani.  
[Antonio M. Lacuna - Business Development Manager, Microsoft].
- 1998, Jul: **Mobilitate TEMPUS S-JEP 09149-95**, la *Image, Video and Multimedia Systems Lab (IVML)*, National Technical University of Athens, Greece, 8 saptamani.  
[Prof. Nikolaos Ouzounoglou - Director program; Prof. Stefanos Kollias - Director laborator].

## Experienta profesionala

- 2013 - pres: **Profesor universitar**, Computer and Software Engineering Department, Politehnica University of Timisoara, Romania
- 2006 - 2013: **Conferentiar universitar**, Computer and Software Engineering Department, Politehnica University of Timisoara, Romania
- 2001 - 2006: **Sef de Lucrari universitar**, Computer and Software Engineering Department, Politehnica University of Timisoara, Romania
- 1998 - 2001: **Inginer de sistem si administrator retea**, Rectorate, Politehnica University of Timisoara, Romania
- 1996 - 1998: **Inginer de sistem si administrator retea**, Departamentul Internet, Lasting System SRL., Timisoara, Romania
- 1996 - 2001: **Asistent universitar**, Computer and Software Engineering Department, Politehnica University of Timisoara, Romania
- 1995 - 1998: **Inginer de sistem si administrator retea**, Network Operation Center (NOC), Politehnica University of Timisoara, Romania
- 1994 - 1995: **Programator si manager baze de date**, S.C.A. Company SRL., Timisoara, Romania
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## Experienta administrativa

- 2016 - pres: **Director departament**, Department of Computer and Information Technology, Politehnica University of Timisoara, Romania
- 2012 - pres: **Membru votat al Senatului Universitatii**, Politehnica University of Timisoara, Romania
- 2011 - pres: **Director adjunct**, Research Center in Computing and Information Technology (CCCTI), Computer and Software Engineering Department, Politehnica University of Timisoara, Romania
- 2010 - pres: **Membru al Comitetului de Directie**, Politehnica Timisoara Foundation, Romania
- 2010 - 2015: **Secretar Stiintific pe departament**, Computer and Software Engineering Department, Politehnica University of Timisoara, Romania
- 2009 - pres: **Membru al Comisiei de Master**, domeniul Calculatoare si Tehnologia Informatiei, Computer and Software Engineering Department, Politehnica University of Timisoara, Romania
- 2008 - pres: **Responsabil program de studii**, Master of Information Technology, Faculty of Automation and Computers, Politehnica University of Timisoara, Romania
- 2008 - pres: **Membru al Comisiei de Licenta**, domeniul Calculatoare si Tehnologia Informatiei, Computer and Software Engineering Department, Politehnica University of Timisoara, Romania
- 2008 - pres: **Membru al Comisiei Cercetare stiintifica, Contracte, Programe doctorale si Imagine a Facultatii**, Faculty of Automation and Computers, Politehnica University of Timisoara, Romania
- 2008 - pres: **Membru al Comisiei Resurse materiale, financiare si Burse a Facultatii**, Faculty of Automation and Computers, Politehnica University of Timisoara, Romania
- 2008 - pres: **Membru votat al Consiliului Facultatii**, Faculty of Automation and Computers, Politehnica University of Timisoara, Romania
- 2005 - 2016: **Membrul al Comisiei Tehnice de Evaluare**, proceduri de achizitie la nivelul Universitatii si al Facultatii, Politehnica University of Timisoara, Romania
- 2000 - pres: **Membru votat al Consiliului Departamentului**, Computer and Software Engineering Department, Politehnica University of Timisoara, Romania
- 2000 - 2015: **Responsabil cu imaginea departamentului**, Computer and Software Engineering Department, Politehnica University of Timisoara, Romania
- 2000 - 2009: **Responsabil al site-ului Web al departamentului**, Computer and Software Engineering Department, Politehnica University of Timisoara, Romania
- 1999 - 2006: **Initiator si Director executiv**, Programul de parteneriat Motorola Company - Universitatea Politehnica din Timisoara, Computer and Software Engineering Department, Politehnica University of Timisoara, Romania
- 1996 - 2015: **Membru al Comisiei Centrale de Admitere**, Politehnica University of Timisoara, Romania
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## Experienta stiintifica

- 1996 - pres: Autor sau titular a peste **20 module didactice**, incluzand Cursuri (5), Laboratoare (3), Seminarii (12):

- ▶ *Elemente de cercetare stiintifica* (Cursuri), Semestru toamna, Master of Cloud Computing and Internet of Things si Master of Information Technology, Faculty of Automation and Computing, Politehnica University of Timisoara, Romania
- ▶ *Sisteme multimedia* (Cursuri), Semestrul 8, anul 4, Licenta Calculatoare, Faculty of Automation and Computing, Politehnica University of Timisoara, Romania
- ▶ *Prelucrarea numerica avansata a semnalelor* (Cursuri), Semestru toamna, Master of Computer Engineering si Master of Information Technology, Faculty of Automation and Computing, Politehnica University of Timisoara, Romania
- ▶ *Telecomunicatii digitale* (Cursuri), Semestrul 7, anul 4, Licenta Calculatoare, Faculty of Automation and Computing, Politehnica University of Timisoara, Romania
- ▶ *Prelucrarea numerica a semnalelor* (Cursuri), Semestrul 5, anul 3, Licenta Calculatoare, Faculty of Automation and Computing, Politehnica University of Timisoara, Romania

1997 - pres: Peste **114 lucrari publicate**, in calitate de unic autor (24), prim autor (25) sau coautor:

- ▶ 3 Carti
- ▶ 7 Capitole de carte
- ▶ 8 Manuale
- ▶ 1 Lucrari laborator
- ▶ 1 Teze abilitare
- ▶ 1 Teze doctorat
- ▶ 3 Referate doctorat
- ▶ 36 Articole jurnal
- ▶ 50 Articole conferinta
- ▶ 4 Note aplicatii industriale

Aceste lucrari sunt **citate in peste 317 articole stiintifice**, publicate de alti autori in domeniu

2013 - pres: Autor sau coautor a **3 brevete de inventie si proprietate industriala** internationale sau nationale

1995 - pres: Implicat in peste **49 granturi, contracte si proiecte de cercetare-dezvoltare** internationale si nationale, in calitate de director (21), responsabil proiect partener sau tema cercetare (8), sau membru in echipa de proiect:

- ▶ 3 Granturi CDI internationale
- ▶ 27 Granturi CDI nationale
- ▶ 11 Contracte CDI
- ▶ 7 Programe de parteneriat
- ▶ 1 Proiecte de dezvoltare

Valoarea totala gestionata ca director sau responsabil de proiect: + **1775364 EUR**

2017 - pres: **Membru al Comitetului International de Program (IPC) si Editor Asociat**, la conferinte stiintifice nationale si internationale, incluzand:

- ▶ 2017 - 2018: *IEEE International Conference on System Theory, Control and Computing, ICSTCC*, IEEE, Control Systems Society, Sinaia, Romania, *la 3 editii*: • ICSTCC 2017; • ICSTCC 2018; • ICSTCC 2020

2015 - pres: **Calitatea de Conducator de Doctorat**, Calculatoare si Tehnologia Informatiei, Politehnica University of Timisoara, Romania

2014 - pres: **Presedinte General**, la conferinte stiintifice nationale si internationale, incluzand:

- ▶ 2014, Oct: *IEEE International Symposium on Robotic and Sensors Environments, ROSE 2014*, IEEE, Instrumentation and Measurement Society, Timisoara, Romania

2010, Jul: **Coordonator stagiu tehnic**, EU Erasmus Lifelong Learning Programme, DSPLabs, Digital Signal Processing Labs Timisoara, Romania, Departamentul Calculatoare, Universitatea Politehnica din Timisoara

2008 - pres: **Presedinte sesiune / tematica**, la conferinte stiintifice nationale si internationale, incluzand:

- ▶ 2018, May: *IEEE International Symposium on Applied Computational Intelligence and Informatics, SACI 2018*, IEEE, Timisoara, Romania, Sesiunea plenara III
- ▶ 2016, May: *IEEE International Symposium on Applied Computational Intelligence and Informatics, SACI 2016*, IEEE, Timisoara, Romania, Sesiunea plenara III
- ▶ 2014, Oct: *IEEE International Symposium on RObotic and Sensors Environments, ROSE 2014*, IEEE, Instrumentation and Measurement Society, Timisoara, Romania, Sesiunea - *Mobile Robots*
- ▶ 2013, May: *IEEE International Symposium on Applied Computational Intelligence and Informatics, SACI 2013*, IEEE, Timisoara, Romania, Sesiunea speciala - *PhD Student*

*Research in Applied Informatics I*

- ▶ 2012, Nov: *IEEE International Symposium on Robotic and Sensors Environments, ROSE 2012*, IEEE, Instrumentation and Measurement Society, Magdeburg, Germany, Sesiunea - *Intelligent Sensing and New Sensor Technologies*
  - ▶ 2011, Nov: *International Congress on Computer Applications and Computational Science, CACS 2011*, International Research Alliance for Science and Technology (IRAST), Indonesia, Sesiunea 3 - *Computer Networks and Communications*
  - ▶ 2008, Jun: *International Conference of Technical Informatics, CONTI 2008*, Politehnica University of Timisoara, Romania, Sectiunea C-3 - *Embedded Systems*
- 2008 - pres: **Expert evaluator**, Consiliul National al Cercetarii Stiintifice din Invatamantul Superior (CNCSIS-UEFISCSU), Ministry of Education, Research and Innovation, Bucharest, Romania
- 2005 - 2008: **Membru in Colectivul de Redactie**, Annual Report of the Faculty of Automation and Computers, Politehnica University of Timisoara, Romania
- 2002 - pres: **Membru al Comitetului Tehnic de Program (TPC) si Recenzor**, la conferinte stiintifice nationale si internationale, incluzand:
- ▶ 2015 - pres: *IEEE International Conference on Intelligent Computer Communication and Processing, ICCP*, IEEE Romania Section, Cluj-Napoca, Romania, *la 6 editii*: • ICCP 2015 - ICCP 2020
  - ▶ 2014, Jun: *IEEE International Symposium on Innovations in Intelligent Systems and Applications, INISTA 2014*, IEEE Italy Section, Alberobello, Italy
  - ▶ 2013, Nov: *Annual Conference of the IEEE Industrial Electronics Society, IECON 2013*, IEEE, Industrial Electronics Society, Vienna, Austria
  - ▶ 2013 - 2015: *IEEE International Conference on Computational Intelligence and Virtual Environments for Measurement Systems and Applications, CIVEMSA*, IEEE, Instrumentation and Measurement Society, *la 3 editii*: • CIVEMSA 2013, Milan, Italy; • CIVEMSA 2014, Ottawa, Canada; • CIVEMSA 2015, Shenzhen, China
  - ▶ 2011 - 2013: *IEEE International Conference on Robotics and Automation, ICRA*, IEEE, Robotics and Automation Society, *la 2 editii*: • ICRA 2011, Shanghai, China; • ICRA 2013, Karlsruhe, Germany
  - ▶ 2009 - 2012: *IEEE International Conference on Virtual Environments: Human-Computer Interfaces and Measurement Systems, VECIMS*, IEEE, Instrumentation and Measurement Society, *la 4 editii*: • VECIMS 2009, Hong Kong, China; • VECIMS 2010, Taranto, Italy; • VECIMS 2011, Ottawa, Canada; • VECIMS 2012, Tianjin, China
  - ▶ 2009 - 2014: *IEEE International Workshop on Robotic and Sensors Environments, ROSE*, IEEE, Instrumentation and Measurement Society, *la 6 editii*: • ROSE 2009, Lake Como, Italy; • ROSE 2010, Phoenix, AZ, USA; • ROSE 2011, Montreal, Canada; • ROSE 2012, Magdeburg, Germany; • ROSE 2013, Washington, DC, USA; • ROSE 2014, Timisoara, Romania
  - ▶ 2008, Jun: *International Conference of Technical Informatics, CONTI 2008*, Politehnica University of Timisoara, Romania
  - ▶ 2002 - 2010: *International Conference on Development and Application Systems, DAS*, Stefan cel Mare University of Suceava, Romania, *la 5 editii*: • DAS 2002; • DAS 2004; • DAS 2006; • DAS 2008; • DAS 2010
- 2001 - pres: **Recenzor**, pentru jurnale si periodice stiintifice, incluzand:
- ▶ 2020 - pres: *IEEE Transactions on Industrial Informatics*, IEEE, Industrial Electronics Society, USA, ISSN 1551-3203
  - ▶ 2019 - pres: *International Journal of Energy Research*, Wiley, USA, ISSN 0363-907X
  - ▶ 2017 - pres: *Reliability Engineering & System Safety*, Elsevier B. V., Amsterdam, The Netherlands, ISSN 0951-8320
  - ▶ 2013 - pres: *Journal of Systems and Software*, Elsevier B. V., Amsterdam, The Netherlands, ISSN 0164-1212
  - ▶ 2009, Dec: *Electronics and Electrical Engineering*, Kaunas University of Technology, Kaunas, Lithuania, ISSN 1392-1215
  - ▶ 2005 - pres: *IEEE Transactions on Instrumentation and Measurement*, IEEE, Instrumentation and Measurement Society, USA, ISSN 0018-9456
  - ▶ 2004 - 2008: *Scientific Bulletin of the UPT: Transactions on Automatic Control and Computer Science*, Politehnica University of Timisoara, Romania, ISSN 1224-600X
  - ▶ 2001 - pres: *Advances in Electrical and Computer Engineering*, Stefan cel Mare University of Suceava, Romania, ISSN 1582-7445
- 1999 - 2006: **Initiator si Director executiv**, Motorola DSP Applications Lab in Timisoara (DALT), Computer and Software Engineering Department, Politehnica University of Timisoara, Romania

- 1999 - 2000: **Consultant stiintific**, Panlatin Internet Glossary, Ministry of Public Works and Government Services, Canada, sectiunea de limba romana, ISBN 0-662-31313-5
- 1996 - pres: **Presedinte sau membru al Comitetului de Organizare**, la conferinte stiintifice nationale si internationale, incluzand:
- ▶ 2013 - 2018: *IEEE International Symposium on Applied Computational Intelligence and Informatics, SACI*, IEEE, Timisoara, Romania, *la 5 editii*: • SACI 2013; • SACI 2014; • SACI 2015; • SACI 2016; • SACI 2018
  - ▶ 1996 - 2002: *International Conference of Technical Informatics, CONTI*, Politehnica University of Timisoara, Romania, *la 4 editii*: • CONTI 1996; • CONTI 1998; • CONTI 2000; • CONTI 2002
- 1995 - pres: **Initiator si Coordonator**, Digital Signal Processing Labs Timisoara (DSPLabs), Computer and Software Engineering Department, Politehnica University of Timisoara, Romania
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## Afilieri

- 2018 - pres: **Membru Senior**, Institute of Electrical and Electronics Engineers (IEEE), USA
- 2002 - 2018: **Membru**, Institute of Electrical and Electronics Engineers (IEEE), USA
- 2002 - pres: **Membru profesional**, Association for Computing Machinery (ACM), USA
- 

## Recunoastere si premii

- 2018, Oct: **Membru Senior**, Institute of Electrical and Electronics Engineers (IEEE), USA, "Ca recunoastere a activitatii profesionale"
- 2017, Feb: **Recenzor remarcabil al anului 2016**, IEEE Transactions on Instrumentation and Measurement, IEEE, Instrumentation and Measurement Society, USA, "Ca apreciere a serviciilor remarcabile aduse IEEE Transactions on Instrumentation and Measurement, precum si ca recunoastere a unuia dintre recenzorii remarcabili ai anului 2016"
- 2015, Dec: **Premiu pentru obtinerea atestatului de Abilitare**, UEFISCDI, Ministry of Education and Scientific Research, Bucharest, Romania
- 2014, May: **Premiul III**, Concursul International Studentesc de Calculatoare "Hard&Soft", Stefan cel Mare University of Suceava, Romania, Editia 21, ca supervizor al echipei Timisoara 2
- 2013, May: **Premiul special**, Concursul International Studentesc de Calculatoare "Hard&Soft", Stefan cel Mare University of Suceava, Romania, Editia 20, ca supervizor al echipei Timisoara 3
- 2012, May: **Premiul II**, Concursul International Studentesc de Calculatoare "Hard&Soft", Stefan cel Mare University of Suceava, Romania, Editia 19, ca supervizor al echipei Timisoara 1
- 2012, May: **Mentiune speciala**, Concursul International Studentesc de Calculatoare "Hard&Soft", Stefan cel Mare University of Suceava, Romania, Editia 19, ca supervizor al echipei Timisoara 2
- 2011 - 2017: **Gradatie de Merit (5 ani)**, Computer and Software Engineering Department, Faculty of Automation and Computers, Politehnica University of Timisoara, Romania, Gradatie de merit pe 5 ani, acordata pe baza de competitie la nivel de departament/facultate
- 2010, Dec: **Gradatie de Merit (1 an)**, Computer and Software Engineering Department, Faculty of Automation and Computers, Politehnica University of Timisoara, Romania, Gradatie de merit pe 1 an, acordata pe baza de competitie la nivel de departament/facultate
- 2007, May: **Premiul II**, Concursul International Studentesc de Calculatoare "Hard&Soft", Stefan cel Mare University of Suceava, Romania, Editia 14, ca prim antrenor al echipei din Timisoara
- 2006, Dec: **Diploma si medalia Tanarul Cercetator Eminent al Timisoarei**, National Authority for Scientific Research (ANCS), Ministry of Education, Research and Innovation, Bucharest, Romania
- 2006, Dec: **Diploma Cercetator Eminent**, Orizonturi Universitare Association, Timisoara, Romania
- 2006, Apr: **Premiul Teza de Doctorat a Anului 2004**, Romanian Academy of Technical Sciences, Timisoara Branch, Romania
- 2005, May: **Premiul I**, Concursul International Studentesc de Calculatoare "Hard&Soft", Stefan cel Mare University of Suceava, Romania, Editia 12, ca prim antrenor al echipei din Timisoara
- 2005, Feb: **Distinctia Cum Laude**, Ministry of Education and Research, Bucharest, Romania, Ordin nr. 3184/07.02.2005, titlul Tezei de Doctorat: "Proiectarea si implementarea sistemelor timp-real pentru aplicatii critice de achizitie si prelucrare numerica de semnal"
- 2002, May: **Premiul II**, Concursul International Studentesc de Calculatoare "Hard&Soft", Stefan cel Mare University of Suceava, Romania, Editia 9, ca prim antrenor al echipei din Timisoara
- 2000, May: **Premiul II**, Concursul International Studentesc de Calculatoare "Hard&Soft", Stefan cel Mare University of Suceava, Romania, Editia 7, ca antrenor al echipei din Timisoara

- 1999, May: **Premiul I**, Concursul International Studentesc de Calculatoare "Hard&Soft", Stefan cel Mare University of Suceava, Romania, Editia 6, ca antrenor al echipei din Timisoara
- 1998 - 2009: **Salar de Merit (anual)**, Computer and Software Engineering Department, Faculty of Automation and Computers, Politehnica University of Timisoara, Romania, Salar de merit, acordat anual pe baza de competitie la nivel de departament/facultate
- 1995, Jun: **Premiul Special al Juriului**, Sesiunea de Comunicari Stiintifice Studentesti, Computer and Software Engineering Department, Politehnica University of Timisoara, Romania, titlul proiectului: "Sistem client-server tip hipertext pentru gestiunea unei biblioteci universitare sub platforma UNIX"
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## Alte competente

- ▶ Limba engleza: Fluent (5/5)
  - ▶ Limba franceza: Elementar (2/5)
  - ▶ Limba germana: Elementar (2/5)
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