





INFORMAȚII PERSONALE



 Bv. Vasile Pârvan, Nr. 2, Clădirea Electro, Corp B, Camera 514, Timișoara, România
 +40256403262
 petru.mihancea@upt.ro
 cs.upt.ro/~petrum/

Sex M | Data nașterii 20/12/1979 | Naționalitatea Română

EXPERIENȚĂ PROFESIONALĂ

2017 - prezent

Conferențiar universitar

Universitatea Politehnica Timișoara, Timișoara (Piața Victoriei, Nr. 2, Timișoara, www.upt.ro)

- Titular cursuri de Programare Orientată pe Obiecte, Software Engineering Fundamentals, Programarea Rețelelor de Calculatoare. Activitate de cercetare în domeniul Ingineriei Software.

Tipul sau sectorul de activitate Educație. Cercetare.

2020 - prezent

Technical Lead

BTC Embedded Systems Romania SRL (Str. Martin Luther, Nr. 2, Timișoara, www.btc-es.de)

- Responsabil pentru îndrumarea tehnică a programatorilor companiei, suport avansat de proiectare și dezvoltare de componente din cadrul produselor companiei

Tipul sau sectorul de activitate Dezvoltare de software

2015 - prezent

Consultant Independent

Petru-Florin Mihancea PFA

- Activități de training, consultanță și cercetare în domeniul Ingineriei Software pentru / în colaborare cu companii naționale și internaționale

Tipul sau sectorul de activitate Consultanță. Cercetare. Educație.

2011 - 2017

Șef de lucrări

Universitatea Politehnica Timișoara, Timișoara (Piața Victoriei, Nr. 2, Timișoara, www.upt.ro)

- Titular laborator și/sau curs de Programare Orientată pe Obiecte, Fundamente de Inginerie Software, Software Engineering Fundamentals, Programarea Rețelelor de Calculatoare. Activitate de cercetare în domeniul Ingineriei Software.

Tipul sau sectorul de activitate Educație. Cercetare.

2006 - 2011

Asistent universitar

Universitatea Politehnica Timișoara, Timișoara (Piața Victoriei, Nr. 2, Timișoara, www.upt.ro)

- Titular laboratoare de Programare Orientată pe Obiecte, Fundamente de Inginerie Software, Activitate de cercetare în domeniul Ingineriei Software.

Tipul sau sectorul de activitate Educație. Cercetare.

2004 - 2006

Preparator universitar

Universitatea Politehnica Timișoara, Timișoara (Piața Victoriei, Nr. 2, Timișoara, www.upt.ro)

- Titular laboratoare de Programare Orientată pe Obiecte, Sisteme de Operare, Activitate de cercetare în domeniul Ingineriei Software

Tipul sau sectorul de activitate Educație. Cercetare.

EDUCAȚIE ȘI FORMARE

- 2004 - 2009 Studii Doctorale**
Universitatea Politehnica Timișoara
- Doctorat în domeniul „Știința Calculatoarelor”
- 2003 - 2004 Studii Aprofundate**
Universitatea Politehnica Timișoara
- Studii aprofundate în specializarea „Calculatoare”, Media multianuală 10.00, Media examenului de diplomă 10.00.
- 1998 - 2003 Studii de Licență**
Universitatea Politehnica Timișoara
- Facultatea de Automatică și Calculatoare, Inginer Diplomat, domeniul „Știința Sistemelor și a Calculatoarelor”, specializarea „Calculatoare”, Media multianuală 9.81, Media examenului de diplomă 10.00.
- 1994 - 1998 Studii Liceale**
Liceu Teoretic Emanuil Gojdu, Oradea
- Specializarea Matematică – Informatică, Media generală 8.78, Media bacalaureat 9.04.

COMPETENȚE PERSONALE

Limba maternă Română

Alte limbi cunoscute

	ÎNȚELEGERE		VORBIRE		SCRIERE
	Ascultare	Citire	Participare la conversație	Discurs oral	
Engleză	C1	C1	C1	C1	C1

Niveluri: A1/2: Utilizator elementar - B1/2: Utilizator independent - C1/2: Utilizator experimentat
Cadrul european comun de referință pentru limbi străine

Articole

1. *Petru Florin Mihancea, Leif Driebold, Dorian Blaj, Mihai I. Bogdănescu, Răzvan T. Lăpădat, Roxana C. Ciorica, Andrei A. Onișă, Andreea M. Zamosteanu, Tom Bienmüller, ScriptView: BTC EmbeddedPlatform® Extension for Test Case Implementation*, Proceedings of the 26th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, Timișoara, Romania, September, 2024
2. *Alin-Petru Roșu, Petru Florin Mihancea, Towards the Detection of Hidden Familial Type Correlations in Java Code*, Proceedings of the 22nd IEEE International Working Conference on Source Code Analysis and Manipulation, NIER Track, Limassol, Cyprus, September, 2022
3. *Petru Florin Mihancea, Roger Scott, CodeSonar® Extension For Copy-Paste-(Mis)Adapt Error Detection*, Proceedings of the 35th IEEE International Conference on Software Maintenance and Evolution, Tool Track, Cleveland, USA, September, 2019
4. *Árpád Kiss, Petru Florin Mihancea, Towards Feature Envy Design Flaw Detection at Block Level*, Proceedings of the 34th IEEE International Conference on Software Maintenance and Evolution, NIER Track, Spain, September, 2018
5. *Alexandru Ștefănică, Petru Florin Mihancea, XCore: Support for Developing Program Analysis Tools*, Proceedings of the 24th IEEE International Conference on Software Analysis, Evolution and Reengineering, Tool Track, Austria, February, 2017
6. *Ștefan Medeleanu, Petru Florin Mihancea, NullTerminator: Pseudo-Automatic Refactoring to Null Object Design Pattern*, Proceedings of the 32nd IEEE International Conference on Software Maintenance and Evolution, Tool Track, USA, October, 2016
7. *Oana Boncalo, Alexandru Amarica, Petru Florin Mihancea, Valentin Savin, Memory Trade-offs in Layered Self-Corrected Min-Sum LDPC Decoders*, Analog Integrated Circuits and Signal Processing, Vol. 87, Issue 2, pp. 169-180, ISSN: 0925-1030 (Print) 1573-1979 (Online), May, 2016
8. *Oana Boncalo, Petru Florin Mihancea, Alexandru Amarica, Template-Based QC-LDPC Decoder Architecture Generation*, Proceedings of the 10th International Conference on Information, Communications and Signal Processing, Singapore, 2015
9. *Dan C. Cosma, Petru Florin Mihancea, Understanding Web Applications Using Component Based Visual Patterns*, Proceedings of the 23rd IEEE International Conference on Program Comprehension, ERA Track, Florence, Italy, 2015
10. *Petru Florin Mihancea, Edit-Mercedes Mera-Batiz, Marius Minea, Guiding Random Test Generation for Intra-Class Dataflow Coverage*, Proceedings of the 16th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing, Timișoara, Romania, 2014
11. *Petru Florin Mihancea, Marius Minea, jModex : Model Extraction for Verifying Security Properties of Web Applications*, Proceedings of the IEEE CSMR-WCRE 2014 Software Evolution Week, Tool Demo, Antwerp, Belgium, IEEE Computer Society Press, 2014

12. Matthias Büchler, Karim Hossen, Petru Florin Mihancea, Marius Minea, Roland Groz, Catherine Oriat, **Model Inference and Security Testing in the SPaCloS Project**, Proceedings of the IEEE CSMR-WCRE 2014 Software Evolution Week, Project Track, Antwerp, Belgium, IEEE Computer Society Press, 2014
13. Petru Florin Mihancea, Cristina Marinescu, **Changes, Defects and Polymorphism: Is There Any Correlation?**, Proceedings of the 17th European Conference on Software Maintenance and Reengineering (CSMR 2013), ERA Track, Genoa, Italy, IEEE Computer Society Press, 2013
14. Petru Florin Mihancea, **Patrols: Visualizing the Polymorphic Usage of Class Hierarchies**, Proceedings of the 18th IEEE International Conference on Program Comprehension (ICPC 2010), Tool Demo Section, Braga, Portugal, IEEE Computer Society Press, 2010
15. Petru Florin Mihancea, Radu Marinescu, **Discovering Comprehension Pitfalls in Class Hierarchies**, Proceedings of the 13th European Conference on Software Maintenance and Reengineering (CSMR 2009), Kaiserslautern, Germany, IEEE Computer Society Press, 2009
16. Petru Florin Mihancea, **Type Highlighting: A Client-Driven Visual Approach for Class Hierarchies Reengineering**, Proceedings of the 8th IEEE International Working Conference on Source Code Analysis and Manipulation (SCAM 2008), Beijing, China, IEEE Computer Society Press, 2008
17. Petru Florin Mihancea, **Towards a Reverse Engineering Dataflow Analysis Framework for Java and C++**, Proceedings of the 10th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC 2008), Timisoara, Romania, IEEE Computer Society Press, 2008
18. Petru Florin Mihancea, George Ganea, Ioana Verebi, Cristina Marinescu, Radu Marinescu, **McC and Mc#: Unified C++ and C# Design Facts Extractors Tools**, Proceedings of the 9th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC 2007), Timisoara, Romania, IEEE Computer Society Press, 2007
19. Mihai Balint, Petru Florin Mihancea, Tudor Girba, Radu Marinescu, **NOREX: A Distributed Reengineering Environment**, Proceedings of the 23rd Proceedings of IEEE International Conference on Software Maintenance (ICSM 2007), Paris, France, Tool Demos Section, IEEE Computer Society Press, 2007
20. Mihai Balint, Petru Florin Mihancea, Radu Marinescu, Michele Lanza, **NOREX: Distributed Collaborative Reengineering**, In Proceedings of FAMOOSr (1st Workshop on FAMIX and MOOSE in Reengineering), Zurich, Switzerland, 2007
21. Petru Florin Mihancea, **Towards a Client Driven Characterization of Class Hierarchies**, Proceedings of the 14th IEEE International Conference on Program Comprehension (ICPC 2006), IEEE Computer Society Press, 2006
22. Petru Florin Mihancea, Radu Marinescu, **Towards the Optimization of Automatic Detection of Design Flaws in Object-Oriented Software Systems**, Proceedings of the 9th European Conference on Software Maintenance and Reengineering (CSMR 2005). IEEE Computer Society Press, ISBN 0-7695-2304-8, 2005
23. Cristina Marinescu, Radu Marinescu, Petru Florin Mihancea, Daniel Ratiu, Richard Wettel, **iPlasma : An Integrated Platform for Quality Assessment of Object-Oriented Design**, Proceedings of the 21st IEEE International Conference on Software Maintenance (ICSM 2005), Tool Demonstration Track, 2005
24. Cristina Marinescu, Radu Marinescu, Petru Florin Mihancea, Daniel Ratiu, Richard Wettel, **Analysis Infrastructure for Quality Assessment of Object-Oriented Design**, Proceedings of the 6th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC 2004), Timisoara, 2004
25. Petru Florin Mihancea, Radu Marinescu, **Improving the Automatic Detection of Design Flaws in Object-Oriented Software Systems**, CAVIS Workshop, eAustria Research Institute from Timisoara, 2004
26. Petru Mihancea, Petru Florin Mihancea, **Software Dedicat Studiului Bolnavilor cu Scleroza in Placi (Dedicated Software for the Study of Multiple Sclerosis Patients)**, Proceedings of the 50th Anniversary of Neurology Clinic of Timisoara, Anniversary Conference, Meeting abstract, Demo, Timisoara, 1999.

Cărți

1. Petru Florin Mihancea, **A Novel Client-Driven Perspective on Class Hierarchy Understanding and Quality Assessment**, Ph.D. Thesis, "Politehnica" University of Timisoara Press ISBN 978-606-554-006-4, 2010
2. Petru Florin Mihancea, Cristina Marinescu, **Programare Java. Mecanisme Avansate**, "Politehnica" University of Timisoara Press, ISBN 978-606-554-285-3, 2011.
3. Cristina Marinescu, Petru Florin Mihancea, **Programare Java. Mecanisme Fundamentale**, "Politehnica" University of Timisoara Press, ISBN 978-606-554-284-6, 2011.
4. Cristina Marinescu, Petru Florin Mihancea, **Programare Orientata pe Obiecte in Limbajul Java**, "Politehnica" University of Timisoara Press, ISBN 973-625-306-6 / 978-973-625-306-5, 2006.

Proiecte

1. **DIAMOND - Message Passing Iterative Decoders based on Imprecise Arithmetic for Multi-Objective Power-Area-Delay Optimization**, UEFISCDI (ROMANIA), ANR (FRANCE), PNII – IDEI – RO-FR / ANR - Blanc International, PN-II-ID-JRP-RO-FR-2012-0109 (RO), 22/03.03.2014 (RO), 2014
2. **SPaCloS-EEU: Secure Provision and Consumption in the Internet of Services**, Enlarged EU FP7 Project, 2011-2013
3. **Methods and Tools for Continuous Quality Assurance in Complex Software Systems**, Romanian Education And Research Ministry, IDEI PN-II-ID-PCE-2007-1, Grant 357/01.10.2007, October 2007 - October 2010
4. **Reverse Engineering Techniques for Class Hierarchies (Director)** Romanian Education And Research Ministry, CNCSIS, Project Type TD, May 2007 - October 2008. (Atât proiectul inițial cât și continuarea sa).
5. **Distributed Environment for Controlling and Optimizing the Evolution of Software Systems**, Romanian Education And Research Ministry, CNCSIS, Project Type TD, May 2007 - October 2008
6. **NOREX - Network of Reengineering Expertise**, Swiss National Science Foundation (SNF), SCOPES Project, November 2005 - October 2007
7. **Design Quality Assurance for Enterprise Software Systems**, Romanian Education And Research Ministry, CEEEX Project for Young Researchers, Grant 3147/2005, November 2005 - October 2007
8. **Integrated Evolutive Environment for Software Quality Assessment** CNCSIS, Project type A, Grant 27688/2005, CNCSIS Code 710
9. **Error Detection in Telecommunication Software**, Alcatel Romania, Industrial Research Project, , June 2004 - August 2004

Instrumente software (selecție)

1. **ScriptView: BTC EmbeddedPlatform® Extension for Test Case Implementation**, <https://www.btc-embedded.com/news/release-of-btc-embeddedplatform-2-11/>
2. **CodeSonar® Extension For Copy-Paste-(Mis)Adapt Error Detection**, <https://blogs.grammatech.com/the-dangers-of-copy-and-paste>
3. **iPlasma : An Integrated Platform for Quality Assessment of Object-Oriented Design**, <http://loose.cs.upt.ro/index.php?n=Main.IPlasma>

Premii, distincții și recunoașteri

- **Best Paper Award - Towards the Detection of Hidden Familial Type Correlations in Java Code**, 22nd IEEE International Working Conference on Source Code Analysis and Manipulation, NIER Track, Limassol, Cyprus, September, 2022
- **Acknowledged Postgres Contributor**, <https://www.postgresql.org/docs/12/release-12.html>
- **Distincția „Cum Laude”** pentru teza de doctorat ”A Novel Client-Driven Perspective on Class Hierarchy Understanding and Quality Assessment”, 2009

27.11.2024