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EMANUEL ȚUNDREA

Personal Information

Place and Date of Birth: Sibiu, Romania, 02nd of July 1977

Marital Status: married, three children

Nationality: Romanian

Education

2005 – 2009: Ph.D. in Software Engineering: “Contributions to the Modeling and the Use of Software Product Lines”, University of Nice Sophia-Antipolis (unice.fr), France, en convention de co-tutelle with Computer Science Faculty, Politehnica University of Timisoara (upt.ro), Romania

March 2002 – March 2008: Four internships as Research Fellow at Institut Universitaire de Technologie de Nice et de la Cote d'Azur, Laboratoire d'Informatique Signaux et Systemes de Sophia-Antipolis, France, supervised by prof. dr. Philippe Lahire (Philippe.Lahire@unice.fr)

1996 – 2001: Bachelor at Computer Science Faculty (Software Engineering), Politehnica University of Timisoara, Romania

Professional Positions

2001 – present: Lecturer – Faculty of Management and Business Informatics, Emanuel University of Oradea

2014 – 2016: Grant Director (ID: 14-01660-TP) received from **Cornerstone Trust, USA** for developing “Emanuel University of Oradea IT Infrastructure for Online Training”

2008 – 2009: Grant Director (ID: EIM 01/23.01.2008) received from **Research Triangle, USA** for developing “SmartModels – An MDE Platform for the Management of Software Product Lines” project in the Emanuel University Research Center.

Publications

- **Books**

- 1. Contribuții ale Tinerilor Cercetători în Domeniul Informaticii Economice**, Editori Emanuel Țundrea, Radu Crișan-Balog, Editura Economica, Vol. 1/2019, ISBN: 978-973-709-907-5, 152 pagini
- 2. Internet Pornography, A Threat to All**, Emanuel Tundrea, Book Chapter in Sacred Cows in Science: No Objectivity Allowed, Editor E. Norbert Smith, “Create Space” Publishing, USA, 2011, ISBN 978-1456585167, pages 303-324
- 3. Contributions to the Modelling and the Use of the Software Product Lines**, Ph.D. Thesis, Emanuel Țundrea, UPT, seria10, nr. 11, Politehnica Publishing House, 2009, Timisoara, Romania, ISSN: 1842-7707, ISBN: 978-973-625-793-3, 152 pages

4. **Tehnici de Programare**, Ciprian Sasu, Emanuel Țundrea, „Aurel Vlaicu” University Publishing House, 2005, Arad, ISBN 973-752-004-1, 102 pages
- **Articles**
 1. **March 2-4, 2020** Emanuel Țundrea, „Artificial Intelligence in Higher Education: Challenges and Opportunities”, 14th annual International Technology, Education and Development Conference (INTED2020 Proceedings), Valencia, Spain, ISBN: 978-84-09-17939-8, DOI: 10.21125/inted.2020
 2. **November 11-13, 2019** Emanuel Țundrea, Ioan Fotea and Silvia Fotea, “Artificial Intelligence in Education - Romanian Students’ Attitudes Toward Artificial Intelligence and Its Impact on Their Career Development”, 12th annual International Conference of Education, Research and Innovation (ICERI2019), Seville, Spain, DOI: 10.21125/iceri.2019.2259, pages: 9330-9338, ISBN: 978-84-09-14755-7, ISSN: 2340-1095
 3. **September 20, 2019** Emanuel Țundrea, Flaviu Turcut and Silvia Fotea, “Challenges and Opportunities when Integrating Artificial Intelligence in the Development of Library Management Systems”, 10th Edition Griffiths School of Management and IT Annual Conference Oradea 2019 (GSMAC) – “Challenges and opportunities to develop organizations through creativity, technology and ethics”, Springer Published Proceedings International (ISSN 2198-7246), doi.org/10.1007/978-3-030-17215-2
 - **IT Track Chair**
 4. **May 2018** M. Romera, G. Pastor, M.-F. Danca, A. Martin, A. B. Orue, F. Montoya, L. Hernández Encinas and E. Țundrea „Bifurcation Diagram of a Map with Multiple Critical Points”, International Journal of Bifurcation and Chaos, Vol. 28, No. 05, 1850065 (2018), doi.org/10.1142/S0218127418500657, ISSN (print): 0218-1274 | ISSN (online): 1793-6551
 - **Q1 – Journal Ranking Quartile in Engineering**
 - **Impact Factor (2018): 2.145**
 5. **June 18-24, 2015**, Emanuel Țundrea, Gerhard Steinke, Ryan LaBrie, „Big Data Privacy Concerns Amidst Global Development”, 15th International Multidisciplinary Scientific GeoConference and EXPO SGEM 2015, Albena, Bulgaria, Informatics, Geoinformatics and Remote Sensing Conference Proceedings, ISBN 978-619-7105-34-6 / ISSN 1314-2704, DOI: 10.5593/SGEM2015/B21/S7.008, Book 2, Vol. 1, pages 53-60
 6. **June 18-24, 2015**, Emanuel Țundrea, „Software Engineering Principles for Creating a Web-Oriented Database of Genes”, 15th International Multidisciplinary Scientific GeoConference and EXPO SGEM 2015, Albena, Bulgaria, Informatics, Geoinformatics and Remote Sensing Conference Proceedings, ISBN 978-619-7105-34-6 / ISSN 1314-2704, Vol. 1, pages 307-314, DOI 10.5593/sgem2015B21
 - **Conference Chairman** on Day 3, 20.06.2015

7. **June 17-26, 2014** “Smartmodels – A Framework for Generating On-Line Sales Management Systems”, Emanuel Tundrea, 14th International Multidisciplinary Scientific GeoConferences SGEM on Informatics, Albena, Bulgaria, ISBN 978-954-91818-9-0 / ISSN 1314-2704, Vol. 1, pages 153-160, DOI: 10.5593/SGEM2014/B21/S7.041
8. **February 23 - 27, 2014** „SmartModels - A Framework for Generating On-line Assessment Systems”, Emanuel Tundrea, The Ninth International Conference on Systems (ICONS), International Academy, Research and Industry Association (IARIA), Nice, France, ISSN: 2308-4243, ISBN: 978-1-61208-319-3, pages 116-122
 - **Best Paper Award**
 - **Session Chair @** System Instrumentation Track
9. **January 27-28, 2013** “Handling Dynamic Concerns of Designing a Platform for Mechatronic Software Systems”, Emanuel Tundrea and Steinke Gerhard, 2nd International Conference on Mechanical Engineering and Materials (ICMEM 2013), Applied Mechanics and Materials Volume 302, Sanya, China, Chapter 3: Manufacturing Engineering, Design, Modeling and Simulation in Manufacture and Industry, ISBN 978-3-03785-646-8, pages 525-530, DOI: 10.4028/www.scientific.net/AMM.302.525
10. **March 2012** "Towards an Understanding of Web Application Security Threats and Incidents", Steinke, Gerhard, Emanuel Tundrea and Kenmoro Kelly, Journal of Information Privacy & Security (JIPS) 7.4 (2012): pages 54-69, DOI: 10.1080/15536548.2011.10855923
11. **May 22-25, 2008** ”SmartModels – An MDE Platform for the Management of Software Product Lines”, E. Tundrea, Proceedings of 2008 IEEE International Conference on Automation, Quality and Testing, Robotics (AQTR 2008), Cluj-Napoca, Romania, ISBN: 978-1-4244-2576-1, pages 193-199, DOI: 10.1109/AQTR.2008.4588910
12. **June 2007** “SmartFactory – A Prototype for Model Oriented Software Engineering Based on Eclipse Platform”, E. Tundrea, P. Lahire, D. Pescaru, C. Chirila, 7th International Conference on Technical Informatics - CONTI 2007, Timisoara, Romania, ISBN (10): 973-625-319-8 ISBN (13): 978-973-625-319-5, Vol: 52(66) No: 2, pages 71-76
13. **September 6-9, 2006** „SmartModels - a Framework for Generating On-Line Learning Software Solutions”, E. Tundrea, P. Lahire, D. Pescaru, and C. Chirila, Netties 2006 (12th Netties International conference), Timisoara, Romania, ISBN: 978-973-638-262-8, pages 69-75
14. **May 27-28, 2006** ”SmartModels – A Model Oriented Approach Validated by a Prototype Based on Eclipse Platform”, E. Tundrea, D. Pescaru, C. Chirila, IEEE-TTTC International Conference on Automation, Quality & Testing, Robotics AQTR 2006, Cluj-Napoca,

Romania, ISBN (13) 978-973-713-114-0, pages 65-70, DOI:
10.1109/AQTR.2006.254588

15. **March 22-24, 2006** SmartModels : La généricité paramétrée au service des modèles métiers, P. Crescenzo, P. Lahire, E. Tundrea, Conférence LMO 22-24 mars 2006 (Langages et Modèles à Objets), Nîmes, France, Hermès Lavoisier, ISBN 2-7462-1418-0, pages 151-166
16. **May 12-14, 2005** C. Chirila, D. Pescaru, E. Tundrea, “Foster Class Model”, 2nd Romanian-Hungarian Joint Symposium on Applied Computational Intelligence SACI'2005, Timisoara, Romania, ISBN 963-7154-39-6, pages 265- 272
17. **September 2004** Philippe Lahire, Didier Parigot, Carine Courbis, Pierre Crescenzo, Emanuel Tundrea, “An Attempt to Set the Framework of Model-Oriented Programming”, Scientific Bulletin of the Politehnica University of Timișoara, Romania, Transactions on Automatic Control and Computer Science, ISSN 1224-600X, Vol: 49(63) No: 3/2004, pages 71-76
18. **May 27-28, 2004** “Factoring Mechanism of Reverse Inheritance”, C. Chirila, P. Crescenzo, P. Lahire, D. Pescaru, E. Tundrea, 6th International Conference on Technical Informatics - CONTI 2004, Timisoara, Romania, Vol. 49(63) No.3/2004, pages 131-136
19. **May 25-26, 2004** ” SMARTMODELS - An Approach For Developing Software Based On Models”, E. Tundrea, P. Lahire, D. Parigot, C. Chirilă, D. Pescaru, 1st Romanian - Hungarian Joint Symposium on Applied Computational Intelligence SACI'2004, Timisoara, Romania, ISBN 963-7154-26-4, pages 231-240
20. **May 25-26, 2004** “SMARTFACTORY - an Implementation of the Domain Driven Development Approach”, P. Lahire, D. Parigot, and E. Tundrea. In SACI'2004, 1st Romanian – Hungarian Joint Symposium on Applied Computational Intelligence, Timisoara, Roumania, May 2004. pages 6.
21. **May 13-15, 2004** ”A better representation for class relationships in UML using OFL meta-information”, D. Pescaru, P. Lahire, C. Chirila, E. Tundrea, IEEE-TTTC International Conference on Automation, Quality & Testing, Robotics AQTR 2004, Cluj-Napoca, Romania, ISBN 973-713-047-2, pages 269-274
22. **May 13-15, 2004** “Model-Oriented Programming Versus Component-Based Software Engineering”, I. Jurca, E. Tundrea, A&QT-R 2004 (THETA 14), 2004 IEEE-TTTC - International Conference on Automation, Quality and Testing, Robotics, Cluj-Napoca, Romania
23. **December, 2003** ”Toward a New Approach for the Development of Software: The Model-Oriented Programming”, C. Courbis, P. Crescenzo,

P. Lahire, D. Parigot, E. Tundrea, Rapport de Recherche ISRN I3S/RR--2003-33--FR (24 pages), Laboratoire I3S, (UNSA / CNRS, UMR 6070), Sophia-Antipolis, France

24. September 2001 “OFLParser – code generator for OFL-ML models”, Dan Pescaru, Emanuel Tundrea, Scientific Bulletin of the Politehnica University of Timișoara, Romania, Transactions on Automatic Control and Computer Science

Other professional activities

Speaker in the **Summit of Integrity for Prosperity** series organized by **Transparency International Romania** <https://www.transparency.org.ro/en/content/integrity-summit-prosperity-timisoara-2015-22nd-april>
<http://summituldeintegritate.ro/>

Cityside Education – member, mentor and coach for leaders in the broad area of character formation and talent development.
(<https://www.cityside.ro/despre-noi/>)

Speaker at **Quo Vadis Juvenis?** – national conference since 2014 supporting high-schoolers to make the right choices for their future careers
<https://www.emanuel.ro/viata-in-campus/quo-vadis-juvenis/>

Speaker at **Joint Romanian – Hungarian International Cluster Conference 2018. Bridging Countries Reaching Europe**
(<https://www.afaceri.ro/speaker/emanuel-tundrea/>)

Grant Maker and **Start-Up Consultant:** Successful story:

- **Vocational Schools for Youth – Music School – Pucioasa**
(<https://bit.ly/2M0btPv>)

Membership and activities in professional associations

Oradea Tech Hub – contributor at developing the IT ecosystem of Oradea, positioning the city of Oradea as an IT start-up generator
(<https://www.oradeatechhub.ro/>)

European Leadership Forum - steering committee member
(<https://euroleadership.org/leadership>)

Cambridge Scholars Network – member (<https://euroleadership.org/csn>)

Professional honors, awards and fellowships

Principal finalist: 2020-2021 **Fulbright Visiting Scholar Award**¹ for the research project: “ORFANBASE: A Comprehensive, Web-Accessible Database of Taxonomically Restricted Genes from All Three Domains of Life”

April 1998 1st mention at “Traian Lalescu” National Programming Competition, “Politehnica” University of Timișoara, Romania

¹ "Get Noticed Through Prestigious Scholarships". U.S. News & World Report. November 25, 2011. Retrieved March 22, 2018.