

CURRICULUM VITAE***DATE PERSONALE***

Nume: SABIN - MARIUS TABIRCA

Grade Academice: BSc Informatics, PhD Computer Science.

Data si Locul Nasterii: 02 June 1965, Dragasani , Romania

Cetatenie: Romana si Irlandeza.

Limbi Straine: English, French

Email: tabirca@cs.ucc.ie

STUDII

1995 – 1998 Studii Doctorale, Brunel University, UK.

Titlul Tezei: Sequential and Parallel Aspects of the Maximum Flow Problem.

1984 - 1988 Studii de Licenta, Universitatea Bucuresti, Romania.

Teza de Licenta, Polinomul Cromatic al Grafurilor

Nota Finala: 9.81

1979 - 1983 High School Education - “Gib Mihaescu” High School, Dragasani.

ACTIVITATE PROFESIONALA

Oct. 2008 - Senior Lecturer, University College of Cork, Cork
Computer Science Department.

Oct. 2000 - Lecturer, National University of Ireland, Cork,
Computer Science Department.

Oct 2001 – Oct 2006

MSc Multimedia Technology Course Director, UCC.

March 2000 - Sept 2000

Postdoc Researcher, Univ. of Manchester, Math Department.

- 1991-1999** Asistent, Lector, Conferentiar, Departamentul de Informatica, Universitatea Transilvania, Brasov.
- 1995-1998** PhD Student la Brunel University, England.
- 1990-1991** Profesor la Liceul "Ioan Mesota", Brasov, Romania.
- 1988-1990** Programator la "IUCF" Rm.Vilcea, Vilcea, Romania.

ACTIVITATE de CERCETARE

Directi de Cercetare Efficient Mobile and HPC Computing for Scientific Problems.

Rezultatele Cercetari

Carti: 5

Articole: 152

Citati in Dazele de Date

MathSciNet: 45

ISI: 42

ACM Guide: 45

DPLP (CS Bibliography): 37

Fost Editor la Smarandache Notions Journal (6 ani)

Afilieri de Cercetare ACM and IEEE Member.

Contributi in Conferinte Internationale:

Menbru in Technical and Steering Committees in peste 50 de conferinte

Vice-Chair and Track Chair on the 2007 IEEE Multimedia Symposium

Co-Funder of the Workshop on Parallel and Distributed Multimedia Computing

Supervizare Studenti

Studentii PhD Finalizati:

2009 - Dr Daniel Doolan, lucreaza la Univ of Aberdeen, UK.

2009 - Dr Xiaoye Dai, Facebook, Dublin.

2010 - Dr Razvan Bocu, Transilvania Univ of Brasov, Romania

2010 - Dr JinYin Chen, Hunan Agricultural University China

2012 - Xue Feng Gao, Inria France

Actualii Studentii PhD:

Donnchadh Coffey – data finalizare 2016

Tamara Vagg – finalizare in 2017

Catherine Costigan – finalizare in 2018

Conducator de doctorat pentru universitatile din Romania

PREMII ACADEMICE / CERCETARE

2016 Best Article in the 2016 UKSIM International Conference.

2013 UCC President Staff Recognition Award.

2008 UCC President Award for Innovation in Teaching.

2009 IT@Cork Award in the Education Section.

EXPERIENTA PROFESIONALA

Predare: Java, Image Processing (2002-2004), Video Processing (2003-2004),
Computer Graphics (2005-2016), Parallel Processing (1999-2016),
Scientific Computing(2009-2016)
Mobile Multimedia (2009-2016), Mobile Design App (2005-2016)
Algorithm and data structure, Algorithms in Graph Theory and
Combinatorics , Combinatorial Optimisation, Numerical analysis.

Administratie: Director pentru cursurile de Diploma and MSc Multimedia

School Outreach: Coordonator al programelor MPT Training pentru liceele din Munster.

PROIECTE DE CERCETARE

2004-2006. Efficient Scheduling Problems – 60,000 Euro BCRI Funding

Realizari:

1. Studii teoretice privind convergenta metodei Feedback Guided Dynamic Loop Scheduling si metode eficiente de implementare.
2. Aplicatii ale metodei FGDLS in cateva probleme practice.
3. Implementarea metodei FGDLS ca si Open MP command.

2006. Parallel Computer Graphics with Java MPI – 10,000 Euro BCRI Funding**Realizari:**

1. Implementarea librăriei Java MPE.
2. Aplicație practică a librăriei JAVA MPE pentru video rendering.
3. Studii teoretice în parallel computer graphics.

2006-2009. Parallel Mobile Computation - 72,000 Euro IRCSET Funding**Realizari:**

1. Implementări ale librăriilor MMPI, MMPE pentru platforma mobilă J2ME.
2. Framework pentru jocuri mobile cu mulți utilizatori.
3. Câteva contribuții teoretice și aplicații practice ale acestor librării.

2007-2009. Visualisation Experiments (VizEx) Software – 96,000 Euro EI.**Realizari:**

1. VizEx – Software pentru Medical Experimental Data.

2007-2010. Efficient Computation of Interactome – 76,000 Euro funding IRCSET.**Realizari:**

1. Investigatii teoretice și computaționale pentru detectarea de proteine importante sau comunități de proteine în rețelele interactome.
2. Algoritmi eficienți pentru community detection.

2008-2011. Modelling of Cancer Gene Therapy - 76,000 Euro funding IRCSET.**Realizari:**

1. Câteva rezultate teoretice referitoare la modelarea cancerului vascular și avascular.
2. Modele matematice ale terapiilor genetice pentru cancer.
3. UI framework pentru CompuCell3D.

Lista de Top 10 Publicatii

1.	C. Costigan, J.Coulter, S. Tabirca , Mathematically Modelling hCG in Women with Gestational Trophoblastic Disease using Logarithmic Transformations, UKSim-AMSS 18th International Conference on Computer Modelling and Simulation, April 2016, pp. 55-59. [Won the best paper award]
2.	D.Doolan, S. Tabirca , L.T. Yang, Mobile Multimedia for Multiuser Environments, Journal of Mobile Multimedia, Vol 4 (1), 2008, pp 42-58.
3.	B. Donegan, D.Doolan, S. Tabirca , Mobile Message Passing using a Scatternet Framework, International Journal of Computers Communication & Control, 2008, Vol 3 (1), pp 51-59.
4.	T.Tabirca, L.Freeman, S. Tabirca and L.T.Yang (2004) Feedback Dynamic Loop Scheduling; Convergence of the Continuous Case, Journal of Supercomputing, , vol 30, October 2004, pp. 151-178.
5.	S. Tabirca , T. Tabirca and L. T. Yang (2006) A convergence study of the discrete FGDLS algorithm, IEICE Transactions on Information and Systems, 2006, vol. E89D, Nr.2, pp.673-678. (Selected from HPCC 2005)
6.	S. Tabirca , I.Pitt, D.Murphy (2002) A Discrete Model For Image Sharpening, Smarandache Notions Journal, Vol.13, No.1-2-3, 2002, pp.259-265, ISSN 1084-2810. [Selected Paper from 5 th Irish Conference on Machine Vision and Image Processing, 2001, Maynooth, Ireland].
7.	T. Vagg, B.J. Plant, S. Tabirca , A Multi-Platform Interactive 3D Educational Application for Bronchoscopy & Bronchial Anatomy, e-Proceedings of the 2015 Workshop on Interactive Medical Image Computing (IMIC), 18th International Conference on Medical Image Computing and Computer Assisted Interventions (2016 MICCAI), Munich, 2015.
8.	S. Tabirca , L.T. Yang, T. Tabirca (2015) Fire Hazard Safety Optimization, Procedia Computer Science, Volume 51, 2015, International Conference On Computational Science, ICCS 2015. Pages 2759–2763.
9.	Tatiana Tabirca, Laurence Yang, S. Tabirca , Centrality Indices Computation in Dynamic Networks, The 12th IEEE International Conference on Computer and Information Technology (CIT 2012), October 2012. Chengdu, Sichuan, China.
10.	Xuefeng Gao, S. Tabirca , Mark Tangney, Computer Simulation of Salmonella typhimurium Accumulation within Tumors, Proceedings of the CMSB 2011 International Conference on Computational Methods in Systems Biology, September 21-23, Paris, France, pp.113-119.

