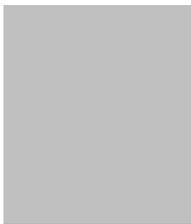# europass

Curriculum Vitae

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Universitatea Transilvania din Brasov, Facultatea de Matematica si Informatica, Str Iuliu Maniu, nr 50, Brasov

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University College Cork, Department of Computer Science, Cork, Ireland

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EDUCAŢIE ŞI FORMARE

1995 - 1998 PhD Computer Science

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COMPETENTE PERSONALE

[

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	Ascultare	Citire	Participare la conversaţie	Discurs oral	
Engleza	C1	C1	C1	C1	C1
Franceza	A1	A1	A1	A1	A1
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Niveluri: A1/2: Utilizator elementar - B1/2: Utilizator independent - C1/2: Utilizator experimentat
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Competenţe organizaţionale/manageriale	Director de programe Outreach (UCC) 2000 – 2018

Coordonator Olimpiada Nationala de Informatica Irlanda 2015-2018

Director de program master in multimedia (UCC) 2005-2010

Cercetare

Domeniu: Efficient Mobile and HPC Computing for Scientific Problems.
Rezultate: Carti si Capitole : 13   Jurnale : 61 Conferinte:81
Editor, Smarandache Notions Journal, 1995-2005
Membru in peste 100 comitete de conferinte
Vice-Chair and Track Chair, 2007 IEEE Multimedia Symposium
Co-Funder, the Workshop on Parallel and Distributed Multimedia Computing
Supervizare student doctorali
        Studenti finalizati: 7 Studenti in stagiu: 8

Premi Cerecetare si Predare
2016 David Bouchier Hayes Innovations in Surgery Award, National Royal Academy of Medicine
2016 Best Paper Award in UKSim 2016 Conference
2013 UCC President Staff Recognition Award.
2008 UCC President Award for Innovation in Teaching.
2009 IT@Cork Award in the Education Section.

Articole

Carti sau Capitole in Carti

E.Ciurea, T.Tabirca, S. Tabirca, Algoritmi – Metode de elaborare [Algorithms], "Transilvania" University Press, Brasov, 1997, ISBN 973-96505-8-9. 250 pages
G.Atanasiu, S. Tabirca, M.Paun, Matematici Special [Special Mathematics], Reprography of "Transilvania" Univ of Brasov, 1996.
S. Tabirca, T.Tabirca, M.Paun, Sisteme de operare – Indrumar de laborator [Operating Systems, Labs Notes], Reprography of "Transilvania" Univ of Brasov, 1995.
T.Tabirca, E.Ciurea, S. Tabirca, Programarea calculatoarelor – *MS-FORTRAN* [Programming in *MS-FORTRAN*], Reprography of "Transilvania" Univ of Brasov, 1995.
S. Tabirca E.Ciurea, T.Tabirca, Grafuri – Indrumar de laborator [Graphs, Labs Notes], Reprography of "Transilvania" Univ of Brasov, 1994.
X. Dai , S Tabirca and E. Lenihan, KEES: A Practical ICT Solution for Rural Areas, Computer and Computing Technologies in Agriculture II, Volume 3, Springer, pp. 1817-1824.
D.Doolan, T. Mehigan, I.Pitt, S. Tabirca, Cross Platform M-Learning for the Classroom of Tomorrow, Book Chapter in Handbook of Research on Multiplatform E-Learning Systems and Technologies: Mobile Devices for Ubiquitous ICT-Based Education, 2010.
D.Grigoras, D.Doolan, S. Tabirca, Scalability of Mobile Ad-Hoc Networks, Book Chapter in Handbook of Research On Scalable Computing Technologies, Idea Group Publishing, Chapter 30, 2009.
D.Doolan, K. Duggan, S. Tabirca, L.T. Yang, Mobile Gaming: From Single to Multiplayer Bluetooth Gaming, Handbook of Research on Mobile Multimedia 2nd Edition, Idea Group Publishing, 2008.
D.Doolan, S. Tabirca, L.T. Yang, Parallel Computing on a Mobile Device with the Mobile Message Passing Interface (MMPI), Handbook of Research on Mobile Multimedia 2nd Edition, Idea Group Publishing, 2008, 2009.
D.Doolan, S. Tabirca, L. T. Yang, Mobile Phones: The Portable Pocket Computer, International Journal of Computer Research, Nova Publishers, ISSN 1535-6698, Volume 14, Number 1/2, 2007, pp 159-177.
S. Tabirca, K.Reynolds, T.Tabirca and L.T.Yang (2005) An Efficient Parallel Method for Calculating The Smarandache Function, chapter in High performance Computing: Paradigms and Infrastructure, Wiley Series on Parallel nad Distributed Computing, Wiley Interscience, 2005, pp.725-733.
T Vagg, C Shortt, C Fleming, M McCarthy, S Tabirca, BJ Plant, Designing Heterogeneous-mHealth Apps for Cystic Fibrosis, in Adults Cystic Fibrosis-Heterogeneity and Personalized Treatment, 2019

Articole in Jurnale Internationale

Walsh, Susan; O'Mahony, Mairin; Lehane, Elaine; Farrell, D; Taggart, Laurence; Kelly, L; Sahm, Laura; Byrne, A; Corrigan, M; Caples, Maria; Cancer and breast cancer awareness interventions in an intellectual disability context: A review of the literature; Journal of Intellectual Disabilities, 25(1), pp.131-145, 2021, Sage.

Yallapragada, Venkata VB; Xu, Tianshu; Walker, Sidney P; Tabirca, Sabin; Tangney, Mark; Pepblock Builder VR– An Open-Source Tool for Gaming-Based Bio-Edutainment in Interactive Protein Design; Frontiers in Bioengineering and Biotechnology; vol 9; pp. 291-304, 2021, Frontiers Publisher.

Morrissy, D; Curran, A; Vagg, T; Dorgan, J; Fleming, C; McCarthy, M; Howlett, C; Tabirca, S; Plant, BJ; Virtual cystic fibrosis doctor: design, development, and user experience pilot study; Journal of Cystic Fibrosis, pp.104-105, 2021.

Vagg, T; Ronan, NJ; Morrissy, D; McCarthy, M; Fleming, C; McCarthy, Y; Tabirca, S; Plant, BJ; Who's talking about cystic fibrosis? The changing landscape of internet postings related to cystic fibrosis: a two-year comparative study, Journal of Cystic Fibrosis, pp. 68-69, 2021.

Vagg, Tamara; Ronan, Nicola J; Morrissy, David; Ibrahim, Hisham; McCarthy, Mairead; Fleming, Claire; McCarthy, Yvonne; Tabirca, Sabin; Plant, Barry J; Who's talking about CF? A comparison of CF internet posts during 2015 and 2019, IRISH JOURNAL OF MEDICAL SCIENCE, pp. 183-183, 2021.

T Vagg, D Morrissy, C Shortt, C Fleming, M Daly, S Tabirca, BJ Plant, Using virtual reality to enhance the transition process, Journal of Cystic Fibrosis 18, 2020, pp123.

T Vagg, D Morrissy, Y McCarthy, M McCarthy, S Tabirca, BJ Plant, Improving undergraduate medical student education in cystic fibrosis using a locally developed cystic fibrosis-specific virtual reality tool, Journal of Cystic Fibrosis 18, S121-S122.

T Vagg, D Morrissy, Y McCarthy, M McCarthy, S Tabirca, BJ Plant, Improving undergraduate medical student education in cystic fibrosis using a locally developed cystic fibrosis-specific virtual reality tool, Journal of Cystic Fibrosis 18, S121-S122

D Morrissy, T Vagg, P Kanderi, A Curran, S Tabirca, BJ Plant , The Virtual Doctor: Optimising unscheduled visits for Cystic Fibrosis (CF) using Artificial Intelligence, IRISH JOURNAL OF MEDICAL SCIENCE 188 (SUPPL 10), 305-305

S Walsh, E Lehane, J Hegarty, M O'mahony, D Farrell, L Taggart, L Kelly, S. Tabirca, Breast awareness amongst women with a mild/moderate intellectual disability: Linking theory to practice, European Journal of Cancer, 2018

T Vagg, D Morrissy, Y McCarthy, M McCarthy, S Tabirca, BJ Plant, Improving undergraduate medical student education in cystic fibrosis using a locally developed cystic fibrosis-specific virtual reality tool, Journal of Cystic Fibrosis 2018, pp121-pp122.

Rutherford, E., Finn, J., Lehane, E., Forde, M., Waters, P., Asharaf, A., Tabirca, S., Bennett, M., Redmond, H.P. and Corrigan, M., 2016, April. FYI: Breast cancer-the use of mobile technology to deliver accurate and relevant cancer education. In *EUROPEAN JOURNAL OF CANCER* (Vol. 57, pp. S39-S39). THE BOULEVARD, LANGFORD LANE, KIDLINGTON, OXFORD OX5 1GB, OXON, ENGLAND: ELSEVIER SCI LTD.

Foley, N.M., Connolly, G., Tabirca, S., Maher, B. and Corrigan, M.A., 2015, January. PATI: Patient Accessed Tailored Information. In *BRITISH JOURNAL OF SURGERY* (Vol. 102, pp. 19-19). 111 RIVER ST, HOBOKEN 07030-5774, NJ USA: WILEY-BLACKWELL.

Connell, E. O., J. Pegler, E. Lehane, N. McCarthy, L. Sahm, S. Tabirca, A. O. Driscoll, and M. Corrigan. "The application of NFC technology to enhance experiential learning and directly improve safety in surgical patients." In *BRITISH JOURNAL OF SURGERY*, vol. 102, pp. 32-32. 111 RIVER ST, HOBOKEN 07030-5774, NJ USA: WILEY-BLACKWELL, 2015.

Connell, E.O., Pegler, J., Lehane, E., McCarthy, N., Sahm, L., Tabirca, S., Driscoll, A.O. and Corrigan, M., 2015, March. Enhanced experiential learning and improved surgical patient safety through the application of NFC technology. In *IRISH JOURNAL OF MEDICAL SCIENCE* (Vol. 184, pp. S161-S161). 236 GRAYS INN RD, 6TH FLOOR, LONDON WC1X 8HL, ENGLAND: SPRINGER LONDON LTD.

C. Costigan, J.Coulter, S. Tabirca, Logarithmic Modelling of hCG Marker in Women with Gestational Trophoblastic Disease, Accepted for International Journal of Simulation: Systems, Science and Technology[extended version of the 2016 UKSim conf paper].

D.Coffey, T. Mehigan, S. Tabirca, Evaluating the Learner Styles of Computer Science Students, International Journal of Computer and Information Technology (ISSN: 2279 – 0764) Volume 05 – Issue 02, March 2016, pp.227-232.

C.K.Baban, M.Cronin, A.R.Akin, A.Obrien, X.Gao, S. Tabirca, M.Tangney, Bioluminescent Bacterial Imaging in Vivo, Journal of Visualized Experiment, 2012.

Razvan Bocu, S. Tabirca, The Flag-based Algorithm - A Novel Greedy Method that Optimizes Protein

Communities Detection, Int. J. of Computers, Communications & Control, ISSN 1841-9836, E-ISSN 1841-9844, Vol. VI (2011), No. 1, pp. 20-31

Derek Daly, S. Tabirca, NFC … The Final Push, Ubiquitous Computing and Communication Journal (UBICC), [Accepted for publishing], 2011.

Simon Rajendran, Slawomir Salwa, Xuefeng Gao, S. Tabirca, Deirdre O'Hanlon, Gerald C. O'Sullivan, Mark Tangney, Murine Bioluminescent Hepatic Tumour Model, Video Article in Journal of Visualized Experiments, 2010 [available at JoVE].

D.Doolan, S. Tabirca, L.T. Yang, Fault Tolerance in Mobile Environments, Journal of Mobile Multimedia, Vol.5 No.2, 2009, pp 113-124

R. Bocu, S. Tabirca, Sparse Networks-Based Speedup Technique for Proteins Betweenness Centrality Computation, International Journal of Biological and Life Sciences 1:3, pp 151-158, 2009.

R. Bocu, S. Tabirca, Betweenness Centrality Computation - a new way for analyzing the biological systems, Communications of SIWN, Vol. 6, April 2009, pp 78-84, 2009.

Kingshuk Roy Choudhury, S. Tabirca, A Modular CDF Approach for the Approximation of Percentiles, Communication in Statistics – Simulation and Computation, Vol 37, pp 1-18, 2008.

D.Doolan, S. Tabirca, L.T. Yang, Mobile Multimedia for Multiuser Environments, Journal of Mobile Multimedia, Vol 4 (1), 2008, pp 42-58.

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.

D.Doolan, S. Tabirca, C. O'Sullivan, Virtual Science Lab (VSL) An Educational Web Application for Demonstrating Science Experiments, "Acta Universitatis Cibiniensis" Journal, 2007, pp 85-89.

D.Doolan, S. Tabirca, C. O'Sullivan, Understanding Science Experiments through the Medium of Video and Data Visualisation, "Acta Universitatis Cibiniensis" Journal, 2007, pp 49-53.

S. Tabirca, T. Tabirca and L. T. Yang (2006) A convergence study of the discrete FGDLS algorithm, IEICE Transcations on Information and Systems, 2006, vol. E89D, Nr.2, pp.673-678. (Selected from HPCC 2005)

D. Doolan, S. Tabirca (2006) Visualizing Infinity on Mobile Devices, International Journal on Computers, Communications and Control, 06, pp. 1-12.

T. Tabirca, S. Tabirca, L. Freeman and L. T. Yang (2005) Applying the feedback guided dynamic loop scheduling method for the shortest path problem, Parallel Processing Letters, 2005, Vol.15, No.4, pp.491-498. [article selected in this special issue from PDPTA'02]

S. Tabirca, T.Tabirca, L.Yang, A.Unger, T.Stuebe (2005) A Practical Application of FGDLS to Birds Flock Trajectory, WSEAS Transaction on Information Sciences and Applications, Issue 8, Volume 2, August 2005, pp 1173-1178.

S. Tabirca, T.Tabirca, L.T.Yang and L.Freeman (2004) Evaluation of Feedback Dynamic Loop Scheduling Algorithms, IEICE Trans. Inf & Syst., vol E87-D, no7, July 2004, pp. 1829-1833.

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.

S. Tabirca, K.Reynolds (2003) Recursive Prime Numbers, Smarandache Notions Journal, Vol.14, No.1-2-3, 2003, pp.

S. Tabirca, K.Reynolds (2003) Lacunary Prime Numbers, Smarandache Notions Journal, Vol.14, No.1-2-3, 2003, pp.

D. Power S. Tabirca, T.Tabirca A Java Concurrent Program for the Smarandache's function, Smarandache Notions Journal, Vol.13, No.1-2-3, 2002, pp.72-84, ISSN 1084-2810.

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 5th Irish Conference on Machine Vision and Image Processing, 2001, Maynooth, Ireland].

Tabirca, S. and Tabirca T. (2002) Some New Results Concerning the Smarandache Ceiling Function, Smarandache Notions Journal, Vol.13, No.1-2-3, 2002, pp.31-36, ISSN 1084-2810.

Tabirca, T. and Tabirca S. (2002) A New Equation for the Load Balance Scheduling based on the Smarandache Ceiling Function, Smarandache Notions Journal, Vol.13, No.1-2-3, 2002, pp.24-30, ISSN 1084-2810.

S. Tabirca and T.Tabirca, Some Budget Application of the Maximum Flow Problem, International Journal of Advanced Modeling and Optimisation (4)2, 2002, pp 15-22

Tabirca, T., Freeman, L. and Tabirca, S. (2002), An O(log p) Parallel Algorithm for Feedback Guided Dynamic

Loop Scheduling, Parallel Algorithms and Applications, 17, pp. 157 – 164. ISSN 1063-7192.

T.Tabirca, S. Tabirca, Three Mapping Loop Strategies for the Upper Diagonal Matrix-Vector Product, *Bulletin of Pure and Applied Sciences,* 2001, India, pp..

T.Tabirca, L. Freeman, S. Tabirca, An O(logp) Algorithm for Feedback Guided Dynamic Loop Schedulin Problem, International Journal of Parallel Algorithms, 2001, UK, pp.157-164.

S. Tabirca T.Tabirca I.Abrudan, A mathematical model based on maximum weight independent sets for a forest harvesting problem, *Technology Letters,* vol V, nr. 2, 2002,ISSN 1369-3735, England, pp 1-4.

S. Tabirca, T.Tabirca Are Smarandache and Erdos function similar?, *Bulletin of Pure and Applied Sciences*, 2001, India, pp.

T.Tabirca S. Tabirca, A parallel loop scheduling algorithm based on the Smarandache f-inferior part function, *Smarandache Notions Journal,* vol.12, 2000, ISSN 1084-2810, SUA, pp.

S. Tabirca T.Tabirca E.Ciurea, On primality of the Smarandache symmetric sequence, *Smarandache Notions Journal,* vol.12, 2000, ISSN 1084-2810, SUA.

S. Tabirca, T.Tabirca, Some Equations Concerning the Euler Function, *Notes on Number Theory and Discrete Mathematics,* vol.6, nr.2, 2000, Bulgarian Academy of Science.

S. Tabirca, T.Tabirca, Some ReMarks on the Bernoulli Numbers, *Notes on Number Theory and Discrete Mathematics,* vol.6, nr.2, 2000, Bulgarian Academy of Science.

S. Tabirca, T.Tabirca, Some inequalities concerning Smarandache's function,
Smarandache Notions Journal, vol.9, nr.1-2-3, 1999, 105-113, ISSN 1084-2810, SUA.

S. Tabirca T.Tabirca A generalisation of Euler's function, *Smarandache Notions Journal*, vol.9, nr.1-2-3, 119-123, ISSN 1084-2810, SUA.

S. Tabirca Smarandache Magic Squares, *Smarandache Notions Journal,* vol.9, nr.1-2-3, 100-105, ISSN 1084-2810, SUA.

S. Tabirca T.Tabirca The average of the Erdos function, *Smarandache Notions Journal*, vol.11, nr.1-2-3,31-34, ISSN 1084-2810, SUA.

S. Tabirca T.Tabirca, On the convergence of the Erdos harmonic series, *Smarandache Notions Journal,* vol.11, 1999, nr.1-2-3, 35-38, ISSN 1084-2810, SUA.

S. Tabirca T.Tabirca, On the Euler harmonic series, *Smarandache Notions Journal,* vol.11, 1999, nr.1-2-3, 196-201, ISSN 1084-2810, SUA.

S. Tabirca On the S-multiplicative functions, *Smarandache Notions Journal,* vol.11, 1999, nr.1-2-3, 103-105, ISSN 1084-2810, SUA.

E.Ciurea, S. Tabirca and T.Tabirca, Maximal dynamic flows, *Technology Letters*, vol II, nr. 1, 1998, 36-41, ISSN 1369-3735, England.

S. Tabirca, T.Tabirca and E.Ciurea Are the optimal codes uniform?, *Technology Letters*, vol II, nr. 2, 1998,29-35, ISSN 1369-3735, England.

I.Abrudan, F.Negrutiu, M.Render and S. Tabirca Analysis of the Physiographic Control over Forest Species Abundance: Canonical Analysis or Stepwise Multiple Regression?, *Technology Letters*, vol II, nr. 1, 1998, 28-35, ISSN 1369-3735, England.

S. Tabirca, T.Tabirca Convergence of the Smarandache Harmonic series, *Smarandache Notions Journal*, vol.8, nr.3-4,1998, 27-35, ISSN 1084-2810, SUA.

S. Tabirca, T. Tabirca, Two New Functions in Number Theory and some Applications for Smarandache Function, *Libertas Mathematica*, Vol. 18, 1998, 78-85, ISSN , SUA.

S. Tabirca, T.Tabirca and E.Ciurea, Characterization of extensible codes, *Technology Letters*, vol 1, nr.1, 1997, pp. 44-48, ISSN 1369-3735, England.

S. Tabirca, T.Tabirca, Computational aspects of Smarandache's function, *Smarandache Notions Journal*, vol.8, nr.1-2-3, 1997, pp. 57-61, ISSN 1084-2810, SUA.

S. Tabirca, T.Tabirca, Some upper bounds of Smarandache's function, *Smarandache Notions Journal*, vol.8, nr.1-2-3, 1997, pp. 205-211, ISSN 1084-2810, SUA.

Articole in Conferinte Internationale

Mevlevioğlu, Deniz; Murphy, David; Tabirca, Sabin; Visual Respiratory Feedback in Virtual Reality Exposure Therapy: A Pilot Study, ACM International Conference on Interactive Media Experiences (IMX), 2021, USA.

Bocu, Razvan; Iavich, Maksim; Tabirca, Sabin; A Real-Time Intrusion Detection System for Software Defined 5G Networks, International Conference on Advanced Information Networking and Applications (AINA), pp.436-446, 2021.

Xu, Tianshu; Yallapragada, Venkata VB; Tangney, Mark; Tabirca, Sabin; ProMVR-Protein Multiplayer Virtual Reality Tool, Proceedings of the 27th ACM Symposium on Virtual Reality Software and Technology (VRST), 2021.

A CURRAN, T VAGG, S TABIRCA, D MORRISSY, BJ PLANT, THE VIRTUAL DOCTOR: AN INTERACTIVE WEB BASED TOOL TO SUPPORT UNSCHEDULED VISITS FOR CYSTIC FIBROSIS (CF) PATIENTS, International Conference on eLearning & Software for Education ELSE 2020, Bucharest.

T VAGG, S TABIRCA, C SHORTT, C FLEMING, B PLANT, Improving Patient Education and the Transition Process Using Virtual Reality. International Conference on eLearning & Software for Education ELSE 2019, Bucharest.

T VAGG, S TABIRCA, C SHORTT, C FLEMING, B PLANT , Improving Patient Education and the Transition Process Using Virtual Reality, eLearning & Software for Education, 2019

T Vagg, YY Tan, C Shortt, C Hickey, BJ Plant, S Tabirca, MHealth and Serious Game Analytics for Cystic Fibrosis Adults, 2018 IEEE 31st International Symposium on Computer-Based Medical Systems

T. Vagg, Y.Y. Tan, J.A. Eustace, B.J. Plant, S. Tabirca. "A Serious Mobile Game App For Adults With Cystic Fibrosis", The 7th Irish Conference on Game-Based Learning (IGBL2017), Cork, June, 2017.

T. Vagg, J. Eustace, B.J. Plant, S. Tabirca,"A review of educational interventions for Adults with Cystic Fibrosis", The International Scientific Conference eLearning and Software for Education, Bucharest, 2017.

T. Vagg, C. Shortt, C. Hickey, J.A. Eustace, B.J. Plant, and S. Tabirca, "A mHealth Patient Passport for Adult Cystic Fibrosis Patients", MobiHealth 2017: Wireless Mobile Communication and Healthcare, November 2017.

T. Vagg, N. Ronan, B.J. Plant, J. Eustace, S. Tabirca, A Web-Based 3D Lung Anatomy Learning Environment using Gamification.", The International Scientific Conference eLearning and Software for Education, Bucharest, 2016, pp 556-560.

C. Costigan, J.Coulter, E.Scheilber, S. Tabirca, Mathematical Modelling of hCG in women with GTD, 30th ECMS European Conference on Modelling and Simulation, June 2016, Regensburg, Germany, pp.

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]

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.

T.Vagg, S. Tabirca, B. Plant, J.Eustace, Interactive Visualiser with Audio for Cystic Fibrosis, Proceedings of the eLearning & Software for Education, 2015, Issue 1, pp.305-310.

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.

T. Vagg, B.J. Plant, J. Eustace, S. Tabirca, Interactive Bronchial Tree E-Learning Environment, 7th International Conference on Education and New Learning Technologies, ISBN: 978-84-606-8243-1, Barcelona, 2015, pp 7151-7158

T. Tabirca, L.T. Yang, S. Tabirca, Importance Indices in Fire Hazard Problems, BCI '15 Proceedings of the 7th Balkan Conference on Informatics Conference, 2015, pp.

N. Foley, M. Corrigan, E. Lehane, G. Connolly and S. Tabirca, Patient Assessed Tailored Information; A Clinical Perspective, European Breast Cancer Conference, Glasgow, 2014.

N. Foley, M. Corrigan, G. Connolly and S. Tabirca, Patient Assessed Tailored Information, National Surgical Symposium, RCSEng, London, November 23rd 2013.

H. Ziada, C. Murphy, S. Curtin, E. Allen and S. Tabirca, DentLearn Periodontics: Clinical Skill Development for Undergraduate Dental Students Dental Students, 18th Health Science Conference, Kuwait, May 2013.

S. Tabirca, H. Ziada, S. Curtin, E. Allen and C. Murphy, DentLearn Periodontics: Skill Development for Undergraduate Dental Students, eISE conference, May 2013, pp.474-479.

Tatiana Tabirca, Laurence Yang, S. Tabirca, Smallest Number of Sensors for k-Covering, Proceedings of the 2012 International Conference on Computer, Communication and Control, Oradea, May 2012, pp.

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.

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.

XueFeng Gao, Mark Tangney, SabinTabirca, Computer Simulation of Hypoxia Regulates Avascular Tumor Growth through p27 Expression, Proceedings of 2011 International Conference on Complex Medical Engineering, May 2011, Harbin China, pp 15-22.

Xuefeng Gao, SabinTabirca, Mark Tangney, A Multiscale Model for Hypoxia-induced Avascular Tumor Growth, Proceedings of 2011 International Conference on Bioscience, Biochemistry and Bioinformatics, February 2011, Singapore, pp.

Razvan Bocu, S. Tabirca, Protein communities Detection Optimization through an Improved Parallel Newman-Girvan Algorithm, Proceedings of the 9th IEEE RoEduNet International Conference, Sibiu, July, 2010, pp 380 - 385.

Xuefeng Gao, Mark Tangney and S. Tabirca, Computational Visualization of Tumor Virotherapy, Proceedings of the XII Mediterranean Conference on Medical and Biological Engineering and Computing, Spinger Vol 29, May 2010, Halkidiki, Greece, pp. 224-227.

Xuefeng Gao, Mark Tangney and S. Tabirca, Two-dimensional Visualization of Tumour Growth Based On Discrete Mathematical Models, Proceedings of The 2010 International Conference On Bioinformatics and Biomedical Technology (ICBBT 2010), April 2010, Chendu, China, pp. 35-41 .

Yin Jie Chen, S. Tabirca, Mark Tangney, Interactive 3D Graphics for Cancer Experiment Data Visualisation, Proceedings of The 2010 International Conference On Bioinformatics and Biomedical Technology (ICBBT 2010), April 2010, Chendu, China, pp. 42-46.

Marius Paltanea, Mark Tangney, Ernest Scheiber and S. Tabirca Logarithmic Growth in Biological Processes, Proceedings of the UKSim-AMS 12th Conference on Computer Modelling and Simulation (UKSim 2010), IEEE March 2010, Cambridge, UK, pp.116-122.

Razvan Bocu, S. Tabirca, Proteomic Data Analysis Optimization Using a Parallel MPI C Approach, Proceedings of BIOINFO 2010 conference, Cancun, Mexic, March 2010, pp.21-29.

X.F.Gao, M. Tangney and S. Tabirca, Computational 3D Simulation of Cellular Data, in Proceedings of Eugraphics Ireland Workshop, December 2009, pp 27-24.

R. Bocu, S. Tabirca - Community Detection-based Analysis of the Human Interactome Network, Proceedings of the International Conference on Bioinformatics and Biomedicine, Venice, pp 153-158, 2009

M. Paltanea, S. Tabirca, Y. J Chen and Mark Tangney, Cancer Prediction Modelling for Volumetric Data, in Proceedings of111th Symposium on Symbolic and Numerical Algorithms for Scientific Problems, Timisoara, September 2009, pp.

X.F.Gao, S. Tabirca, M.Tangney, 3D Cell Visualisation, Proceedings of 3rd International Conference on Experiments/Process/System Modeling/Simulation and Optimisation, Athens, July, 2009, pp.1-8.

M. Paltanea, S. Tabirca, Y. J Chen and Mark Tangney, Tumor Growth Prediction Using the Gompertz Model, Proceedings of 3rd International Conference on Experiments/Process/System Modeling/Simulation and Optimisation, Athens, July, 2009, pp 716-721.

Y. Chen, M. Tangney, R. Bocu, S. Tabirca, 3D Modelling of Complex Cancer Systems, Proceedings of the International Conference on Complex Systems, Springer, Shanghai, Feb 2009. pp 1750-1760.

Daniel Doolan, S. Tabirca, MMPI a Message Passing Interface for the Mobile Environment , The 6th International Conference on Advances in Mobile Computing & Multimedia (MoMM2008), Linz, November 2008, pp. 317-321.

Yin Jie Chen, Ryan Gao, Mark Tangney, S. Tabirca, 2D and 3D animation for Cancer Education, Poster in the 2008 Symposium for Medical Education, UCC, Cork, October 2008.

Yin Jie Chen, Simon Rajendran, Mark Tangney and S. Tabirca, Multimedia Visualisation for Breast Cancer, International Conference on Computers Communications and Control, Baile Felix Spa - Oradea, Romania, 15th to 17th May 2008, pp. 78-83.

D.Doolan, S. Tabirca, Examination of Fault Tolerance in MMPI, International Conference on Computers Communications and Control, Baile Felix Spa - Oradea, Romania, 15th to 17th May 2008, pp126-131.

D.Doolan, S. Tabirca, Mobile Parallel Graphics, 8th Irish Workshop on Computer Graphics (Eurographics), Dublin, Ireland, 17th December 2007. pp. 35 - 40.

Y. Chen, D.Doolan, S. Tabirca, M. Tangney, R. Bocu, Synthetic Imaging for 3D Bacterial Representation, 8th Irish Workshop on Computer Graphics (Eurographics), Dublin, Ireland, 17th December 2007. pp. 41 - 45.

D.Doolan, S. Tabirca, The Need for Speed: coding styles for Mobile Devices, 49th International Symposium ELMAR-2007 focused on Mobile Multimedia, Zadar, Croatia, 12th to 14th September 2007, pp. 193-196.

D.Doolan, S. Tabirca, L. T. Yang, Multiuser Mobile Multimedia, IEEE International Symposium on Multimedia 2007 (ISM2007), Taichung, Taiwan, R.O.C., 10th to 12th December 2007, pp. 326-335.

K. Duggan, D.Doolan, S. Tabirca, L.T. Yang, Single to Multiplayer Bluetooth Gaming Framework, 6th International Symposium on Parallel and Distributed Computing (ISPDC), Hagenberg, Austria, 5th to 8th July 2007, pp 343-349.

D.Doolan, S. Tabirca, Bluetooth Gaming with the Mobile Message Passing Interface (MMPI), The 1st Joint Workshop on Wireless Ubiquitous Computing (WUC 2007), Funchal, Madeira - Portugal, 12th to 13th June 2007, pp 74-85.

T. Mehigan, D.Doolan, S. Tabirca, Bluetooth mLearning Applications for the Classroom of the Future, EdTech 2007, Eight Annual Irish Educational Technology Users Conference, Dublin Institute of Technology, Dublin, Ireland, 23rd to 25th May 2007 , pp 6.

T. Tabirca, S. Tabirca and L. T. Yang (2006) An O(log p) Algorithm of the Discrete FGDLS Method, Proceedings of AINA 2006, April 2006, Viena, pp 321-326.

N. Purcell, S. Tabirca and D. Doolan (2006) Parallel Video Processing using mpiJava & JMF, Proceedings of International Conference on Computers, Communications and Control, Oradea June 2006, pp 245-253.

X.Dai, S. Tabirca and E.Lenihan (2006) JAS – An E-Learning Tool for Building Multimedia Presentations, Proceedings of the IEEE International Symposium on Computer Graphics and Visualisation, China, June 2006, pp 743 - 746.

D.Doolan, S. Tabirca, C. O'Sullivan (2006) Virtual Science Lab (VSL) An Educational Tool for Demonstrating Science Experiments, Proceedings of the 5th IEEE RoEduNet International Conference, Sibiu, June, 2006, pp.

S. Tabirca, T.Tabirca, L. Yang, L. Freeman (2006) Feedback Guided Dynamic Integral Partition, Proceedings of the 5th International Symposium on Parallel and Distributed Computing (ISPDC06), Timisoara, July, 2006, pp.

D.Doolan, S. Tabirca (2006) Synthetic Image Generation with primes, Proceedings of the Irish Machine Vision and Image Processing Conference 2006, August, 2006, pp.

D.Doolan, S. Tabirca (2006) Mobile Parallel Programming, Proceedings of the 5th International Symposium on Parallel and Distributed Computing (ISPDC06), Timisoara, July, 2006, pp.

D.Doolan, S. Tabirca (2005) Distributed Fractal Generation Across a Piconet, Proceedings of Sigrad05-Mobile Computer Graphics Conference, Lund, Sweden, 2005, pp. 63-68.

D.Doolan, S. Tabirca, D. Murphy (2005) Applying mpiJava to Fractal Image Compression, Proceedings of the Irish Machine Vision and Image Processing, 2005, Belfast, pp. 167-174.

D.Doolan, S. Tabirca (2005) Interactive Teaching Tool to Visualise Fractals on Mobile Devices, Proceedings of the 6th Irish Workshop on Computer Graphics, Dublin 2005, pp 7-12.

S. Tabirca, T.Tabirca, L.Yang (2005) Convergence of the Discrete FGDLS Algorithm, Proceedings of the 2005 International Conference on High Performance Computing and Communications, Naples, Italy, September 2005, LNCS , pp. .

S. Kärsten, S. Tabirca, Nandamudi Vijaykumar (2005) Parallel Approach for the 90%-tile Wind and Wave Hindcast over Irish and Celtic Seas, Proceedings of the Second International ICSC Symposium on Information Technologies in Environmental Engineering (ITEE 2005), Magdeburg, Germany, Sept 2005, pp 644-654.

K.Reynolds and S. Tabirca (2004) lip for Java, Proceedings of International Conference on Computers and Communicatins, May 2004, Baile-Felix Spa, Oradea, pp. 372-378.

S. Tabirca, T.Tabirca, K.Reynolds, J.Morrison (2004) Some Computation ReMarks on Prime Number Fractals, e-Proceedings of the 2004 Workshop on Parallel Computing for Scientific Problems, 2004 WSEAS International Conference on Applied Mathematics, Corfu, Greece.

D.Doolan, S. Tabirca and D.Murphy (2004) 3D Prime Number Fractals, Prooceedings of the 2004 EG Irish Chapter, September 2004, Cork, Ireland, pp. 55-63.

N.Lynch, D,Murphy and S. Tabirca (2004) SurViz: A Direct Volume Rendering Systems, Prooceedings of the

2004 EG Irish Chapter, September 2004, Cork, Ireland, pp. 37-48.

S. Tabirca, K.Reynolds, T.Tabirca and L.T.Yang (2004) Calculating the Smarandache Function in Parallel, Proceedings of the 3rd International Symposium on Parallel and Distributed Computing, July 2004, Cork, Ireland, pp.79-82.

T.Tabirca, S. Tabirca, L. Freeman, S. Tabirca, T. Yang (2003) An O(p+logp) Algorithm for the Discrete FDGLS, Proceedings of The 2003 International Conference on Parallel Processing, ICPP-HPSECA 2003, Taiwan, pp.164-172

D.Murphy, P.Murphy, S. Tabirca (2003) VIRCAS (Virtual Reality CASe Tool) A Diagramming CASE Tool to Model and Generate Scene Graph Based Virtual Reality Environments, Proceeding of the Irish Eurographics Workshop, Coleraine, North-Ireland, 2003, pp.24-31

A.Amke and S. Tabirca (2003) Imaging Technologies in Java, Proceedings of 2nd International Conference on the Principles and Practice of Programming in Java, PPPJ 2003, Kilkenny, Ireland, pp. 159-161

S. Tabirca, T.Tabirca (2003) An O(N^2) Parallel Algorithm For the Maximum Flow Problem, Proceedings of the 2003 NATO Advanced Research Workshop on Concurrent Information Processing and Computing, NATO ARW CIPC – 2003, Sinaia, Romania, pp.

T.Tabirca, S. Tabirca, L. Freeman, S. Tabirca, T. Yang (2003) Static Workload Balance Scheduling Algorithm; Continuous Case, Proceedings of The 17th International Parallel and Distributed Processing Symposium, IPDPS-PDSECA 2003, Nice, France, pp.

Tabirca, T., Freeman, L., Tabirca, S. and Yang. L. T. (2002) *An Application of Feedback Guided Dynamic Loop Scheduling to the Shortest Path Problem* , In Proceedings of the International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'02) , ed. H.R.Arabnia, CSREA Press, Bogart, Georgia, pp. 1786 – 1789, ISBN 1-892512-91-2.

Tabirca, T., Freeman, L. and Tabirca, S (2002) *A Convergence Proof of FGDLS When the Workload is Monotone* , In Proceedings International Symposium on Parallel and Distributed Computing , ed. D. Grigoras, Alexandru Ioan Cruza University Press, Iasi, pp. 132 - 141.

Tabirca, T., Freeman, L. and Tabirca, S. (2002) *A Theoretical Application of Feedback Guided Dynamic Loop Scheduling* , In Proceedings of the NATO Advanced Research Workshop on Advanced Environments, Tools and Applications for Cluster Computing, ed. D. Grigoras, A. Nicolau, B. Toursel and B. Folliot, Lecture Notes in Computer Science, vol. 2326, pp. 287 - 292, Springer-Verlag, Berlin ISBN 3-540-43672-3.

S. Tabirca, I.Pitt, D.Murphy, A Discrete Model For Image Sharpening, Proceedings of the 5th Irish Conference on Machine Vision and Image Processing, 2001, Maynooth, Ireland.

T.Tabirca, L Freeman, S. Tabirca, T. Yang, A Static Workload Balance Scheduling Algorithm, Proceedings of The 2nd Workshop on Parallel and Distributed Scientific and Engineering Computing with Applications (PDSECA 2001), San Francisco, USA, pp. .

T.Tabirca, S. Tabirca, L Freeman, T. Yang, Feedback Guided Dynamic Loop Schedulin; A Theoretical Approach, Proceedings of The 3rd Workshop on High Performance Scientific and Engineering Computing with Applications (HPSECA 2001), 2001, Valencia, Spain, pp.

S. Tabirca, T. Tabirca, The Second Reader Problem, Proceedings of the 4th International Symposium on Economics Informatic, 2001, Bucharest, Romania, pp.

T.Tabirca S. Tabirca An efficient algorithm for the Hamming coding, *The 7th International Conference on Optimisation of Electrical and Electronic Equipment OPTIM 2000*, 2000, Brasov, Romania.

T.Tabirca S. Tabirca An Improvement of a Loop Scheduling Algorithm Based on the Smarandache Inferior Part Function, *Proceedings of the Second International Conference on Smarandache Type Notions in Number Theory,* 2000, Craiova, Romania.