

# LISTĂ LUCRĂRI ȘTIINȚIFICE

## - Selectie -

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### **A. Teza de doctorat**

*(Titlul tezei, domeniul și anul susținerii)*

**Mircea Giurgiu –**

Teza de doctorat cu titlul: „Contributii la Recunoasterea Automata a Cuvintelor in Limba Romana”,  
Universitatea Tehnica din Cluj-Napoca,  
Conducator stiintific: Prof.dr.ing. Gavril Todorean,  
Domeniul: Inginerie Electronica si Telecomunicatii  
Anul sustinerii: 1996.

### **B. Cărți și capitole din cărți (Selectie - din anul 2001)**

*(Autorii, titlul cărții, editura, locul și anul publicării, nr. pagini, ISBN)*

#### **(b.1) Carti, autor unic – manuale universitare cu ISBN**

1) Mircea Giurgiu, “*Compresia datelor Audio in Aplicatii Multimedia*”, Cluj-Napoca Risoprint Publishers, 2003, ISBN: 973-656-451-7 (disponibila si in format electronic: pe CD si la adresa [www.concorde.utcluj.ro](http://www.concorde.utcluj.ro)).

2) Mircea Giurgiu, “*Programarea Calculatoarelor in Limbajul C*”, Editura Risoprint, Cluj-Napoca, 2003, (251 pag), ISBN: 973-656-417-7, (disponibila si in format electronic: pe CD si la adresa [www.concorde.utcluj.ro](http://www.concorde.utcluj.ro)).

3) Mircea Giurgiu, Luciana Peev „Sinteza din text a semnalului vocal”, Vol I. Modelare acustica si Fonologica, Ed. Risoprint Cluj-Napoca, 2006, ISBN: 978-751-296-3.

#### **(b.2) Carti de specialitate cu ISBN – autor unic**

1) Mircea Giurgiu, “*Introducere in Tehnologiile XML*”, Editura Risoprint, Cluj-Napoca, 2003 (108 pag), ISBN: 973-656-416-9, (disponibila si in format electronic: pe CD si la adresa [www.concorde.utcluj.ro](http://www.concorde.utcluj.ro)).

2) M. Giurgiu, “*HTML Interactiv – Competente in crearea paginilor Web*”, Editura Risoprint, Cluj-Napoca, 2003 (110 pag), ISBN: 973-656-413-4, (disponibila si in format electronic: pe CD si la adresa [www.concorde.utcluj.ro](http://www.concorde.utcluj.ro)).

3) Mircea Giurgiu, "Virtual Collaboration for Online Project Management" (in limba Engleza), Editura Risoprint, Cluj-Napoca, 2006, 180 pagini, ISBN: 973-751-363-0 (978-973-751-363-2).

#### **(b.3) Carti de specialitate cu ISBN – prim autor**

1) Mircea Giurgiu, Claudiu Mada, “*SQL Server 7.0 – Competente in utilizarea bazelor de date*”, Editura Risoprint, Cluj-Napoca, 2003 (356 pag), ISBN: 973-656-450-9, (disponibila si in format electronic: pe CD si la adresa [www.concorde.utcluj.ro](http://www.concorde.utcluj.ro)).

2) Mircea Giurgiu, Mihai Sabau, “*Ghid Interactiv VBScript*”, Editura Risoprint, Cluj-Napoca, 2003 (68 pag), ISBN: 973-656-415-0, (disponibila si in format electronic: pe CD si la adresa [www.concorde.utcluj.ro](http://www.concorde.utcluj.ro)).

3) Mircea Giurgiu, Radu Goran, “*Bazele Programarii in JavaScript*”, Editura Risoprint, Cluj-Napoca, 2003 (89 pag), ISBN: 973-656-414-2, (disponibila si in format electronic: pe CD si la adresa [www.concorde.utcluj.ro](http://www.concorde.utcluj.ro)).

4) Mircea Giurgiu, Dietmar Treichel, "Smectra.Net Handbook for eLearning Project Management" (in limba Engleza), Editura Risoprint, Cluj-Napoca, 2006, 166 pagini, ISBN: 973-751-352-5 (978-973-751-352-6).

#### **(b.4) Carti de specialitate – coautor**

1) G. Todorean, S. Costea, N. Tomai, M. Giurgiu, A. Balogh: "*Rețele de Calculatoare. Indrumator de*

laborator", ISBN: 973-9464-69-6, Risoprint Publishers, Cluj-Napoca, 2000.

#### **(b.5) Carti cu ISBN – capitol in carte**

1) Mircea Giurgiu, „An Introduction to the Leonardo da Vinci Pilot Project – Acquisition of Complementary Competencies through Open and Distance Education”, in volumul „Acquisition of Complementary Competencies through Open and Distance Education – Vol.1. Training Needs Analysis” (in limba engleza), Ed. Risoprint, Cluj-Napoca, 2002, ISBN: 973-656-167-4, pag. 7-16.

2) Mircea Giurgiu, „An Analysis of Technological and Pedagogical Issues Related with Internet-based Learning”, in volumul „Acquisition of Complementary Competencies through Open and Distance Education – Vol.1. Training Needs Analysis” (in limba engleza), Editura Risoprint, Cluj-Napoca, 2002, ISBN: 973-656-167-4, pag. 39-50.

\_\_\_\_\_ publicate inainte de 2001: \_\_\_\_\_

3) Klaus Fellbaum, Marian Boldea, Andrzej Drygajlo, Mircea Giurgiu, Phil Green, Ruediger Hoffman, Michael McTear, Bojan Petek, Victoria Sanchez, Kyriakos Sgarbas - " Selection of Tutorials and Related Materials for Spoken Language Engineering", *Chapter 3 in book: "Recommendations for European Education in Phonetics, Spoken language Engineering, Speech and language Therapy"*, Utrecht Institute of Linguistics OTS Publications, Netherlands, 1999, ISBN 90-5434-071-1

#### **(b.6) Carti/proceedings cu ISBN – editor**

1) Mircea Giurgiu (Editor), Autori: Florin Lungu, Laura Bacali, Sorin Suteu, “*Competente in afaceri*”, Editura Risoprint, Cluj-Napoca, 2003 (187 pag), ISBN: 973-656-452-5, (disponibila si in format electronic: pe CD si la adresa [www.concorde.utcluj.ro](http://www.concorde.utcluj.ro)).

2) Mircea Giurgiu (Editor), Autor: Daniel Socaciu, “*Introducere in programarea ASP*”, Editura Risoprint, Cluj-Napoca, 2003 (68 pag), ISBN: 973-656-449-5, (disponibila si in format electronic: pe CD si la adresa [www.concorde.utcluj.ro](http://www.concorde.utcluj.ro)).

3) Mircea Giurgiu (editor), „*Acquisition of Complementary Competencies through Open and Distance Education – Vol.1. Training Needs Analysis*” (in limba engleza), Editura Risoprint, Cluj-Napoca, 2002, ISBN: 973-656-167-4 (127 pagini)

4) M. Giurgiu - Coordonare tehnologica si editare CD pentru materialele in format electronic: 1) Luis Lizama – “Basics of Internet”, 2) Manolis Chrisostalis, Guido Scagno – “IT Basics”, 3) Pierro 5) Cavigliasso, Simona Coscia – “Moulds for plastic materials” (materiale realizate in proiect Leonardo da Vinci “Concorde”, 2003, coordonat de UTCN).

#### **(b.7) Alte materiale educationale, publicate in cadrul universitatii**

1) Mircea Giurgiu, “Mobile Communications and Speech Compression for GSM”, Curs pentru Scoala de Vara Board of European Students of Technology (BEST) International Summer Course “*Communications Technologies for Information Age*”, 12-14 August 1997, Cluj-Napoca, pp53-82.

2) Giurgiu, M. “*Compresia si codarea datelor multimedia. Compresia semnalului vocal*”, Curs anul VI studii aprofundate in Tehnologii Multimedia, Editat de Centrul de Tehnologii Multimedia si Educatie la Distanta, 1999.

### **C. Lucrări științifice indexate ISI/BDI (2000-2011)**

(Autorii, titlul lucrării, conferința/revista, locul și data publicării, paginile, ISBN/ISSN, indexările)

#### **ISI:**

A. Kabir, J. Barker, M. Giurgiu, ” Integrating Hidden Markov Model and PRAAT: a Toolbox for Robust Automatic Speech Transcription”, Proceedings of SPIE (USA), ISSN: 0277-786X, ISBN 978-0-8194-7235-8, Vol. 7745, Sept 2010, (DOI: 10.1117/12.872211), pp. 7745-13. [http://spie.org/x648.html?product\\_id=872211](http://spie.org/x648.html?product_id=872211)

Mircea Giurgiu, „Information Retrieval System based on Romanian Continuous Speech Recognition”, *Proc. of 2003 IEEE International Conference on Systems, Man & Cybernetics (SMCC'03)*, Hyatt Regency, Washington D.C., October 5-8, 2003, Vol.2, pag. 1104 – 1109, (ISSN:1062-922X, ISBN:0-7803-7952-7), Indexare in baza de date internationala: [http://ieeexplore.ieee.org/xpl/abs\\_free.jsp?arNumber=1244559](http://ieeexplore.ieee.org/xpl/abs_free.jsp?arNumber=1244559), [ieeexplore.ieee.org/iel5/8811/27880/01244559.pdf?arnumber=1244559](http://ieeexplore.ieee.org/iel5/8811/27880/01244559.pdf?arnumber=1244559)

ML Lecumberry, M. Cooke, M. Giurgiu, sa, „The non-native consonant challenge for European languages”, *INTERSPEECH 2008*, Brisbane, Australia, 20-22 Sept 2008, Ed. Springer Verlag, ISSN: 1104-5787.

Maria Luisa Lecumberri, John Maidment, Martin Cooke, Anders Eriksson, Mircea Giurgiu, „A Web-based Transcription Tool”, *Proceedings of International Phonetic Congress*, Barcelona, 4-6 August 2003, pag. 981-984, ISBN 1-876346-48-5, <http://www.wtt.org.uk/>.

#### **BDI:**

A.Kabir, M. Giurgiu, J. Barker, “Robust Automatic Transcription of English Speech Corpora”, *Proc. of 8<sup>th</sup> IEEE Int Conf on Communications*, Bucharest, 10-12 June 2010, ISBN: 978-1-4244-6363-3, pp.79-82, (IEEE Explore DOI: 10.1109/ICCOMM.2010.5509116)

[http://ieeexplore.ieee.org/search/freesrchabstract.jsp?tp=&arnumber=5509116&queryText%3DGiurgiu%2C+M.%26openedRefinements%3D\\*%26searchField%3DSearch+All](http://ieeexplore.ieee.org/search/freesrchabstract.jsp?tp=&arnumber=5509116&queryText%3DGiurgiu%2C+M.%26openedRefinements%3D*%26searchField%3DSearch+All)

A. Kabir, J. Barker, M. Giurgiu, ”An Approach to Vocal Tract Length Normalization by Robust Formant”, *Proc. Of the Int Conf on Circuits, Systems and Signals*, Malta (“Recent Advances in Circuits, Systems and Signals”, Publ. WSEAS Press 2010), Malta, 15-17 Sept 2010, pp.345-348, ISBN: 978-960-474-226-4, ISSN: 1792-4324. <http://www.wseas.us/e-library/conferences/2010/Malta/CSS/CSS-56.pdf>

Veja, M. Giurgiu, G. Weber, G. Hagedorn, “MediaWiki Interoperability Framework for Multimedia Digital Resources”, *Proc of 6th Int Conf on Intelligent Computer Communication and Processing (ICCP)*, 26-28 August, 2010, pp.329-335, ISBN: 978-1-4244-8229-0 (IEEE Explore DOI: 10.1109/ICCP.2010.5606419). [http://ieeexplore.ieee.org/search/freesrchabstract.jsp?tp=&arnumber=5606419&queryText%3DVeja%2C+G.%26openedRefinements%3D\\*%26searchField%3DSearch+All](http://ieeexplore.ieee.org/search/freesrchabstract.jsp?tp=&arnumber=5606419&queryText%3DVeja%2C+G.%26openedRefinements%3D*%26searchField%3DSearch+All)

C.Veja, M. Giurgiu, G. Hagedorn, G. Weber, “Semantic MediaWiki Interoperability Framework from a Semantic Social Software Perspective”, *Proc of 9th International Symposium on Electronics and Telecommunications*, Timisoara, 11-12 Nov 2010, 978-1-4244-8457-7, pp.403-406 (IEEE Explore DOI: 10.1109/ISETC.2010.5679307).

[http://ieeexplore.ieee.org/search/freesrchabstract.jsp?tp=&arnumber=5679307&queryText%3DDOI%3A+10.1109%2FISETC.2010.5679307%26openedRefinements%3D\\*%26searchField%3DSearch+All](http://ieeexplore.ieee.org/search/freesrchabstract.jsp?tp=&arnumber=5679307&queryText%3DDOI%3A+10.1109%2FISETC.2010.5679307%26openedRefinements%3D*%26searchField%3DSearch+All)

M. Ordean, M. Giurgiu, “Implementation of a Security Layer for the SSL/TLS Protocol”, *Proc of 9th International Symposium on Electronics and Telecommunications*, Timisoara, 11-12 Nov 2010, 978-1-4244-8457-7, pp.209-212 (IEEE Explore DOI: 10.1109/ISETC.2010.5679350).

[http://ieeexplore.ieee.org/search/freesrchabstract.jsp?tp=&arnumber=5679350&queryText%3DDOI%3A+10.1109%2FISETC.2010.5679350%26openedRefinements%3D\\*%26searchField%3DSearch+All](http://ieeexplore.ieee.org/search/freesrchabstract.jsp?tp=&arnumber=5679350&queryText%3DDOI%3A+10.1109%2FISETC.2010.5679350%26openedRefinements%3D*%26searchField%3DSearch+All)

A. Stan, M. Giurgiu, “Romanian Language Statistics and Resources for Text-To-Speech Systems”, *Proc of 9th International Symposium on Electronics and Telecommunications*, Timisoara, 11-12 Nov 2010, 978-1-4244-8457-7, pp.381-384 (IEEE Explore DOI: 10.1109/ISETC.2010.5679318).

[http://ieeexplore.ieee.org/search/freesrchabstract.jsp?tp=&arnumber=5679318&queryText%3DDOI%3A+10.1109%2FISETC.2010.5679318%26openedRefinements%3D\\*%26searchField%3DSearch+All](http://ieeexplore.ieee.org/search/freesrchabstract.jsp?tp=&arnumber=5679318&queryText%3DDOI%3A+10.1109%2FISETC.2010.5679318%26openedRefinements%3D*%26searchField%3DSearch+All)

Mircea Giurgiu, "Experimental Results on Prosody for Romanian Text to Speech Synthesis", *Revue Roumaine de Linguistique*, Nr. 3/2006, Editura Academiei Romane, pag. 467-476, ISSN: 0035-3957.

M. Giurgiu, D. Treichel, “ SMECTRA – An European network for online counselling on the application of new media in enterprise training”, *Proc of 3<sup>rd</sup> Balkan Region Conference on Engineering Education*, 12-15 September 2005, Sibiu, pp.42 – 44, ISBN: 973-739-147-0.

M. Giurgiu, “Competencies in virtual collaboration applied for students’ online project management under

industry conditions – the case of POOL”, *Proc of 3<sup>rd</sup> Balkan Region Conference on Engineering Education*, 12-15 September 2005, Sibiu, pp.38 – 41, ISBN: 973-739-147-0.

Mircea Giurgiu, „Application of web-based Technologies for Competences Acquisition through Informal Learning – CONCORDE Project Approach”, *Proc. of 2nd Balkan Region Conference on Engineering Education*”, Sibiu, 16-19 September 2003, pp. 190-193, ISBN: 973-651-673-3.

G. Voglino and M. Giurgiu, “An Approach for Non-linear Voice Activity Detection: data from Romanian and Italian”, *Proc. of IPSI 2005 Conference*, 28 Apr – 1 May 2005, Costa Brava, Spain, pag.19, ISBN:86-7466-117-3

Mircea Giurgiu, “On the use of Semicontinuous Hidden Markov Models for Speech Recognition”, ”, *Proc. of 2<sup>nd</sup> Conference on “Speech Technology and Human-Computer Dialogue”*, 10-11 April, Romanian Academy of Sciences, Bucharest, 2003, pp 187-192, ISBN: 973-27-0963-4.

Mircea Giurgiu, “Experimental Information Retrieval System based on Romanian Continuous Speech Recognition”, *Proc. of 2<sup>nd</sup> Conference on “Speech Technology and Human-Computer Dialogue”*, 10-11 April, Romanian Academy of Sciences, Bucharest, 2003, pp161-166, ISBN: 973-27-0963-4.

#### **D. Lucrări științifice publicate in reviste și volume de conferințe cu referenți (neindexate) (2000 - 2011 – selecție de maxim 20 de articole):**

*(Autorii, titlul lucrării, conferința/revista, locul și data publicării, paginile, ISBN/ISSN)*

M. Giurgiu, “An Advanced Search Engine for the Online Metadata Repository of Multimedia Educational Resources on Biodiversity”, *Proc of Int. Conf on Education, Research and Development, Nessebar, Bulgaria*, 9-13 Sept 2010. Paper published in "Journal of International Scientific Publication: Educational Alternatives" (<http://www.science-journals.eu/erd/index.html>), ISSN: 1313-2571, Vol. 8, Part 1, Sept 2010, pp. 289-296.

M. Giurgiu, “Curriculum and e-Learning Materials for the Certification on International Online Project Management”, *Proc of Int. Conf on Education, Research and Development, Nessebar, Bulgaria*, 9-13 Sept 2010. Paper published in "Journal of International Scientific Publication: Educational Alternatives" (<http://www.science-journals.eu/erd/index.html>), ISSN: 1313-2571, Vol. 8, Part 1, Sept 2010, pp. 297-303..

G. Hagedorn, G. Weber, A. Plank, M. Giurgiu, sa, "An online authoring and publishing platform for field guides and identification tools", *Proc of the Int Congress “Tools for Identifying Biodiversity”*, Paris, 20-22 Sept 2010, ISBN: 9-788-8830-3295-0, EUT – Edizioni Universita di Trieste, pp.13-18.  
<http://www.openstarts.units.it/dspace/handle/10077/3739>

M. Giurgiu, A. Homodi, C. Veja, G. Hagedorn, P.L. Nimis, "A search tool for the digital biodiversity resources of KeyToNature", *Proc of the Int Congress “Tools for Identifying Biodiversity”*, Paris, 20-22 Sept 2010, ISBN: 9-788-8830-3295-0, pp.19-24.  
<http://www.openstarts.units.it/dspace/handle/10077/3741>

G. Hagedorn, M. Giurgiu, A. Homodi, "Simple matrix keys from Excel spreadsheets", *Proc of the Int Congress “Tools for Identifying Biodiversity”*, Paris, 20-22 Sept 2010, ISBN: 9-788-8830-3295-0, pp.83-88.  
<http://www.openstarts.units.it/dspace/handle/10077/3754>

M. Giurgiu, A. Homodi, E. van Spronsen, S. Martellos, P.L. Nimis, "The Open Key Player: A new approach for online interaction and user tracking in identification keys", *Proc of the Int Congress “Tools for Identifying Biodiversity”*, Paris, 20-22 Sept 2010, ISBN: 9-788-8830-3295-0, pp.133-136.  
<http://www.openstarts.units.it/dspace/handle/10077/3763>

G. Schmidt, M. Giurgiu, S. Hetzner, F. Neumann, "Improvement of identification keys by user-tracking", *Proc of the Int Congress “Tools for Identifying Biodiversity”*, Paris, 20-22 Sept 2010, ISBN: 9-788-8830-3295-0, pp.137-143. <http://www.openstarts.units.it/dspace/handle/10077/3764>

M. Giurgiu, “A Training Program and the European Certification on International Online Project Management”, *Proc of 1<sup>st</sup> Int Management Conference, Cluj-Napoca*, 16-18 Sept 2010, pp.251-260, ISBN: 978-973-7695-99-4.

C.Veja, G. Hagedorn, G. Weber, M. Giurgiu, „Metadata Repository Management using the MediaWiki Interoperability Framework. A Case Study: KeyToNatureProject”, CD Proc of Int Conf eChallenges e-2010, Warsaw, 27-29 Oct 2010, ISBN: 978-1-9055824-20-5.  
<http://www.echallenges.org/e2010/default.asp?page=schedule-view&schedule.id=244&schedule.day.date=2010-10-28%2000:00:00.0&schedule.slot.time=09:00&schedule.event.pos=4&schedule.event.id=20158&schedule.day.pos=#slot2010-10-28%2000:00:00.0T09:00>

A.Kabir, J. Barker, M. Giurgiu, ”Fully Automatic and Reliable Formant Extraction in Large Speech Corpora by Using Multiple Estimation Methods”, Proc of 6<sup>th</sup> European Conference on Intelligent Systems and Technologies, Iasi, 7-9 Oct 2010, ISBN: 978-206-903-800-3, ISSN: 2069-038X.  
<http://www.iit.tuiasi.ro/ecit2010/program.html>

Mircea Giurgiu, „Exploring Fine Phonetic Detail for Romanian Text to Speech Synthesis”, Acta tehnica Napocensis, ISSN 1221-6542, Vol. 49, Nr. 3, 2008.

## E. Brevete

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## F. Granturi/contracte de cercetare (2000-2011)

Titlu proiect	Funcția	Perioada
Proiect pilot Leonardo da Vinci: “CONCORDE - Acquisition of Complementary Competencies through Open and Distance Education”, (7 parteneri din 5 tari)	Coordonatorul proiectului	2001-2003
“Recunoasterea automata a vorbirii continue” (Faza I in proiect “Recunoasterea automata a vorbirii continue pentru interogarea bazelor de date de tip multimedia”), CNCSIS 34970/2001, Tema 4, Cod 238 AT	Director de grant	2001
“Accesul vocal la baze de date de tip multimedia” (Faza I in proiect Recunoasterea automata a vorbirii continue pentru interogarea bazelor de date de tip multimedia”), CNCSIS 33531/2002, Tema6, Cod 49 AT	Director de grant	2002
Proiect pilot Minerva/Socrates “OCTOPUS – Transnational online Resource Centre”, Coordonator: Universidad Politecnica de Beja, Portugalia	Coordonator local in parteneriat international	2002-2004
Proiect cercetare INFOSOC – PNCDI, ROMSYN: “Sinteza din Text a Vorbirii in Limba Romana pe baza unui Sistem Expert Lingvistic”, 128/16.08.04, Partener: Software ITC SA	Director de grant	2004-2006
Proiect pilot Leonardo da Vinci: “POOL – Project Organisation OnLine as a Tool for Equipping Engineering Students with team-working and communicative competencies in a multinational setting using ICT”, Coordonator: University of Applied Sciences, Salzburg, Austria	Coordonator local in parteneriat international	2004-2006
Proiect pilot Leonardo da Vinci: “SMECTRA.NET – Small and Medium Enterprises online Consulting and Training Network”, Coordonator: Overpar Solutions GmbH, Liechtenstein	Coordonator local in parteneriat international	2004-2006
Proiect EU FP6-STREP: “Platforma pentru managementul activitatilor universitare folosind semnatura electronica”, Coordonator: Unimatica SpA, Italia	Coordonator local in parteneriat international	2005-2007
Proiect EU eContentPlus: “Key To Nature: Dezvoltarea de instrumente multimedia interactive pentru predarea biodiversitatii”, Coordonator: Univ. din Trieste, Italia	Coordonator local in parteneriat international	2007-2010

Proiect pilot Leonardo da Vinci: "Pool2Business: Implementarea solutiilor tehnice si a materialelor de tip e-Learning pentru certificarea Europeana in domeniul managementului online al proiectelor", Coordonator: University of Applied Sciences, Salzburg, Austria	Coordonator local in parteneriat international	2008-2010
Proiect pilot Leonardo da Vinci: "SMECTRANS: Platforma si materiale educationale online pentru certificare Europeana in domeniul managementului proiectelor de e-Learning", Coordonator: Overpar Solutions GmbH, Liechtenstein	Coordonator local in parteneriat international	2008-2010
Proiect FP6 EU: "Sound to Sense" – Exploring how human and computers understand speech, Coordonator: Univ. din Cambridge, UK.	Coordonator local in parteneriat international	2007-2011
Proiect PN II Inovare, "Text2Speech: Dezvoltarea unor servicii software pentru sinteza din text a semnalului vocal" – Transfer tehnologic catre firma iQuest Technologies SRL.	Director grant	2008-2010

Prof.dr.ing. Mircea Giurgiu