

Curriculum Vitae

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EDUCATION

- October 2004-present** **Ph.D. Studies**, Faculty of Automation, Computers and Electronics, University of Craiova
Dissertation Title: *The data modeling in multimedia databases.*
- October 2003-June 2005** **Master Studies - Software Engineering**
Faculty of Automation, Computers and Electronics, University of Craiova
Dissertation Title: *Content – Based Image Retrieval in Databases with Medical Images.*
- October 1998-June 2003** **University of Craiova Faculty of Automation, Computers and Electronics,**
Thesis Title: *Content-Based Region Retrieval.*
- September 1994-June 1998** **College “Nicolae Bălcescu”, Craiova**

EXPERIENCE

- October 2006 - present** **Teaching Assistant** at Faculty of Automation, Computers and Electronics, Software Engineering Department, University of Craiova.
Conducted laboratory in:
- Databases,
 - Database Design,
 - Multimedia Development Application,
 - E-Commerce,
 - Distributed Network Application Development,
 - Programming Engineering,
 - Project Management.
- October 2003 – October 2006** **Junior Assistant** at Faculty of Automation, Computers and Electronics, Software Engineering Department, University of Craiova.
- March 2002 – March 2003** **Web Programmer**, NetRom Romania

PUBLICATIONS

Papers in peer-reviewed scientific journals

1. **Anca Loredana Ion**, *Methods for Knowledge Discovery in Images*, *Journal of Information Technology and Control*, ISSN 1392–124X, Vol. 38, No.1, 2009, pp. 43-49. [ISI, INSTICC]
2. **Anca Loredana Ion**, *Design and Implementation of Web-Based Image Retrieval System*, *Annals of the University of Craiova, Series: Automation, Computers, Electronic and Mechatronics*, Vol.1 (), 2008. [CNCSIS C class]
3. Liana Stanescu, Dumitru Dan Burdescu, Gabriel Mihai, **Anca Loredana Ion**, Cosmin Stoica Spahiu, *Medical Imagistic Database Query for Educational Purpose*, *Lecture Notes in Computer Science 5328 Springer-Verlag*, 2008, pp.121-132. [ISI Proceedings, DBLP, SpringerLink]
4. Liana Stanescu, Dumitru Dan Burdescu, Mihai Gabriel, Cosmin Stoica Spahiu, **Anca Loredana Ion**, *Access Modalities to an Imagistic Library for Medical e-Learning*, *Lecture Notes in Computer Science 5173 Springer-Verlag*, 2008, pp. 260-263. [ISI Proceedings, DBLP, SpringerLink]
5. Liana Stanescu, Dumitru Dan Burdescu, **Anca Loredana Ion**, Andrei Panus, Ligia Florea, *Imagistic Digital Library for Hybrid Medical Learning*, *Lecture Notes in Computer Science 5169 Springer-Verlag*, 2008, pp. 380-391. [ISI Proceedings, DBLP, SpringerLink]
6. Liana Stanescu, Dumitru Dan Burdescu, Gabriel Mihai, **Anca Loredana Ion**, Cosmin Stoica, *Topic Map for Medical E-Learning*, *Studies in Computational Intelligence*, Springer-Verlag 2008, Vol. 162/2008, pp.305-310. [DBLP, SpringerLink]
7. Liana Stanescu, Dumitru Dan Burdescu, **Anca Loredana Ion**, Eugen Georgescu, *Using the color set back-projection algorithm in retrieval and evaluation of endoscopic images*, *Studies in Computational Intelligence*, Springer Verlag, vol. 78, pp.197-206, 2007. [ISI Proceedings, SpringerLink].
8. Dumitru Burdescu, Liana Stanescu, **Anca Loredana Ion**, Cristian Mihaescu, *A Spatial Watermarking Algorithm For Video Images*, *Communications in Computer and Information Science Vol. 1*, Springer-Verlag, 2007, pp.402-407. [ISI Proceedings, SpringerLink]
9. **Anca Loredana Ion**, Liana Stanescu, Dumitru Dan Burdescu, *The Description of Some Methods Used For Color Texture Classification*, *Else Software*, nr.24, 2005, pp. 5-14. [CNCSIS D class]
10. **Anca Loredana Ion**, *Implementation of an Online Software System for Content-Based Region Query*, *Annals of the University of Craiova, Series: Automation, Computers, Electronic and Mechatronics*, Vol.1 (28), 2004.
11. Liana Stănescu, Dumitru Burdescu, **Anca Loredana Ion**, *MEDIM – Software System For The Content-Based Visual Retrieval Study In Databases With Medical Images*, *Studies in Health Technology and Informatics Vol. 105 Transformation of Healthcare with Information Technologies*, IOS Press Amsterdam ISBN 1 58603 438 3, 2004, pp.296-307. [PubMed]
12. Liana Stănescu, Dumitru Burdescu, **Anca Loredana Ion**, *Content-Based Region Query With Relative Localization*, *Scientific Bulletins of Politehnic Timisoara, Series Automation and Computers*, Vol. 49(63), No.3, ISSN 1224-600X, 2004, pp. 35-38. [CNCSIS B class]
13. Liana Stănescu, Dumitru Burdescu, **Anca Loredana Ion**, *A Comparative Study of Some Metrics used in Content-Based Image Retrieval*, *Annals of West University of Timisoara, Series: Mathematics-Informatics*, 2004, pp. 307-318 [CNCSIS B class].

Papers in conference proceedings

1. **Anca Loredana Ion**, *Algorithms for Reducing the Semantic Gap in Image Retrieval Systems*, HSI 2009, Catania, Italia, 2009 (in press). [ISI Proceeding, IEEEExplore].
2. **Anca Loredana Ion**, Liana Stanescu, Dan Burdescu, Stefan Udristoiu, *Improving an Image Retrieval System by Integrating Semantic Features*, Human System Interaction, Cracovia, Poland, IEEE Catalog Number: 08EX1995C, ISBN: 1 4244 1543 8, 2008, pp.510-515 [ISI Proceedings, IEEE Xplore].
3. **Anca Loredana Ion**, Liana Stanescu, Dan Burdescu, Stefan Udristoiu, *Mapping Image Low-Level Descriptors to Semantic Concepts*, ICCGI 2008, ISBN 978 0 7695 3275 2, pp 154-159 [IEEE Xplore].
4. Liana Stanescu, Dumitru Burdescu, **Anca Loredana Ion**, Andrei Panus, *An Original e-testing Method for Medical e-learning*, 8st IEEE International Conference on Advanced Learning Technologies (ICALT 2008), Santander, Spain, 2008, pp.212-216. [ISI Proceedings, IEEE, DBLP]
5. Liana Stanescu, Dumitru Burdescu, **Anca Loredana Ion**, Andrei Panus, *Imagistic Database for Medical E-learning*, 21st IEEE International Symposium on Computer-Based Medical Systems (CBMS 2008), Jyvaskyla, Finland, 2008, pp.427-429. [ISI Proceedings, ACM, IEEE, DBLP]
6. Liana Stanescu, Dumitru Burdescu, Cosmin Stoica, **Anca Loredana Ion**, Critian Guran, *Medical Information System Based on Oracle Technologies*, 10th International Conference on Enterprise Information Systems (ICEIS 2008), Barcelona, Spain, 2008, pp.417-420. [ISI Proceedings, INSPEC, DBLP]
7. Liana Stanescu, Dorin Stanescu, Dumitru Burdescu, Cosmin Stoica, **Anca Loredana Ion**, *Using a complex numerical and multimedia database in internal medicine. Pre-release evaluations*, International Conference on Health Informatics (HEALTHINF 2008), Funchal Madeira, Portugal, vol.1, 2008, pp.192-195. [ISI Proceedings, INSPEC, DBLP]
8. Liana Stanescu, Cosmin Stoica Spahiu, **Anca Loredana Ion**, *Question generation for learning evaluation*, MMAP'08 - First International Symposium on Multimedia – Applications and Processing, Wisla, Poland, 2008, pp.509-513. [IEEE Xplore]
9. Liana Stanescu, Dumitru Dan Burdescu, **Anca Loredana Ion**, Cosmin Stoica, *Using Multimedia to Improve Medical E-learning*, The 2008 World Congress in Computer Science Computer Engineering and Applied Computing, Las Vegas, CSREA Press, ISBN 1-60132-063-9, 2008, pp.96-101 [DBLP].
10. Dumitru Burdescu, Liana Stanescu, Anca Loredana Ion, Razvn Tanasie, *A New 3D Watermarking Algorithm*, 3DTV Conference: The True Vision - Capture, Transmission and Display of 3D Video, Istanbul Turkey, 2008, pp.361 –364. [ISI Proceedings, IEEE Xplore]
11. **Anca Loredana Ion**, Liana Stanescu, Dumitru Burdescu, *Semantic Based Image Retrieval Using Relevance Feedback*, Eurocon 2007 The International Conference on “Computer as a tool”, Warsaw, Poland, 2007, pp.1661-1668. [ISI Proceedings, IEEE Xplore]
12. **Anca Loredana Ion**, Liana Stanescu, Dumitru Burdescu, *Semantic categorization and Retrieval of Images*, SYNASC 2007, Timisoara, Romania, IEEE Computer Society Press, pp.211-218. [IEEE Xplore]
13. Dumitru Burdescu, Liana Stanescu, Razvan Tanasie, **Anca Loredana Ion**, *A New Algorithm For Content-based 3-D Image Retrieval*, IADIS International Computer Graphics and Visualization, Lisbon, Portugal, 2007, pp.132-137. [IADIS Digital Library].

14. Liana Stanescu, **Anca Loredana Ion**, Dumitru Burdescu, Marius Brezovan, *Algorithms and Results in Content-based Visual Query of the Image Databases Resulting from DICOM files*, 8th International Symposium on Symbolic and Numeric Algorithms for Scientific Computing (SYNASC), Timisoara, Romania, IEEE Computer Society Press, 2006, pp.119-124. [ISI Proceedings, DBLP, IEEE Xplore]
15. Liana Stanescu, Dumitru Burdescu, **Anca Loredana Ion**, *Using the Color-set back-Projection Algorithm in Retrieval and Evaluation of Endoscopic Images from Patients with Peptic Ulcers*, 4th IEEE International Conference on Information Technology: Research and education- ITRE, Tel Aviv, Israel, 2006, pp.126-130. [ISI Proceedings, DBLP, IEEE Xplore]
16. Liana Stanescu, Dumitru Burdescu, **Anca Loredana Ion**, Marius Brezovan, *Content-Based Image Query On Color Feature in the Image Databases Obtained from DICOM files*, International Multi-Conference on Computing in the Global Information Technology, Bucharest, Romania, IEEE Computer Society Press, 2006, pp.15. [IEEE Xplore, ACM DL].
17. Liana Stanescu, Dumitru Burdescu, Anca Loredana Ion, Marius Brezovan, *Improving the Results of the Content-Based Image Query on Medical Imagery*, ICINCO 2006, Setubal, Portugal, pp.432-437. [ISI Proceedings, DBLP]
18. **Anca Loredana Ion**, Liana Stanescu, Dumitru Burdescu, *The Region-Based Query Using Ontology*, CONTI 2006, Timisoara, Romania, Vol. 2, pp.257-262.
19. **Anca Loredana Ion**, Liana Stanescu, *MIR- A Tool for Medical Image Retrieval*, Eurocon 2005 The International Conference on “Computer as a tool”, Serbia&Muntenegru, 2005, pp.1003-1006. [ISI Proceedings, IEEE Xplore].
20. Liana Stănescu, Dumitru Burdescu, **Anca Loredana Ion**, *WEBImTest – On-Line Software System For The Content-Based Region Query In Image Databases*, 5th International Carpathian Control Conference, Zakopane, Poland, ISBN 83-89772-00-0, May 25-28 2004, pp.861-866.
21. Liana Stănescu, Dumitru Burdescu, **Anca Loredana Ion**, Florin Perianu, *On-line Query of a Color Medical Imagery*, 8th International Conference Biomedical Engineering, Kaunas, Lithuania, October 28-29, 2004, pp.105-108.

REASEARCH GRANTS

As Grant Director

- *Software System for Content- Based Visual Retrieval in Multimedia Databases*, code 169, duration: 2007-2008, financed by the Romanian Ministry of Education and Research - CNCSIS, amount: 70 000 RON.

As member in the research team

- *Informatic System for Content-Based Query of Multimedia Databases with Medical Images (SIBIM) – grant Parteneriat, D11 045/14.09.2007*, financed by the Romanian Ministry of Education and Research, amount: 670.000 RON, duration 2007-2009, Director: Prof. Dumitru Dan Burdescu.
- *On-Line Software System for Content Based Query of The Multimedia Databases Resulting by Extracting Data from Dicom Standard Files –grant no. 629/2007*, amount: 92.000 RON, financed

by the Romanian Ministry of Education and Research, CNCSIS, Director: conf. dr. eng. Liana Stanescu.

- *Algorithms for Medical Multimedia Databases Processing and Querying* -grant no. 155/2006, financed by the Romanian Ministry of Education and Research, CNCSIS, amount: 92.000 RON, Director: prof. Dumitru Dan Burdescu.
- *Research in the Development and Integration of Medical Imaging Systems and Distributed Databases* – grant code 316, financed by the Romanian Ministry of Education and Research – CNCSIS, amount: 15.400 RON, Director: Prof. Mihai Mocanu.
- *Multimedia Database with Distributed Support for Medical Imaging* – grant code 280, financed by the Romanian Ministry of Education and Research, CNCSIS, amount: 27.700 RON, duration 2005-2006, Director: prof. Dumitru Dan Burdescu.
- *New Algorithms for Content Based Retrieval in Multimedia Databases* - grant Romania Academy, no. 153/05.08.2005, amount: 3.000 RON, Director: Prof. Dumitru Dan Burdescu.

SCHOLARSHIPS

- Erasmus/Socrates scholarship at College of Technology of Darlington, UK (March 2000 – May 2000)

AFFILIATION

- **Member of SRAIT** (Romanian Society of Automation and Technical Informatics) – since 2005.
- **Member of ACM** since 2009.

OTHER PROFESSIONAL ACTIVITIES

- Guest Editor at International Journal of Biomechatronics and Biomedical Robotics (IJBBR).
- Reviewing activities: International Conference on Intelligent Computing ICIC 2008, Human System Interaction HSI 2009, IEEE International Conference on Digital Ecosystems and Technologies DEST 2009.
- Member of the Local Organizing Committee for the International Symposium on Intelligent and Distributed Computing - IDC'2007, 18-19 October 2007, Craiova, Romania.