

# Research Activity

## 1. *Research projects*

*Member in the research team:*

1. E-Commerce Supermarket System (SUM), Eureka SUM E! Project no. 2754/2003/RO (Beneficiary: Minister of Research and Education); Partners: IPA (Romania), University of Craiova (Romania), ARIES (Romania), MRA Consulting (UK), The Textile Institute (UK), Huddersfield Textile Training (UK) (2003-2007)
2. Research for medical imagistic and distributed databases systems integration development, no. 316/2004 (CNCSIS 2004-2005)
3. Algorithms for processing and querying medical images multimedia databases, no. 155/2006 (CNCSIS 2006-2008)
4. New algorithms for content based retrieval in multimedia databases (Romanian Academy, 2005) – Project manager: Prof. Ph.D. Eng. Dumitru Dan Burdescu
5. On-line informatics system for content based retrieval of multimedia databases resulted by extracting information from DICOM standard files, no. 18/2007 (CNCSIS 2006) – Project manager: assoc. prof. ph.d. eng. Liana Stănescu
6. PARTNERSHIPS IN PRIORITIZED DOMAINS – Informatics System for Content Based Retrieval querying of medical imagistic databases (No. D11 045/14.09.2007) – Project manager: Prof. Ph.D. Eng. Dumitru Dan Burdescu
7. New methods based on Object Oriented Petri Networks and techniques for images semantic processing, used for monitoring flexible systems for intelligent production (Ideas Exploring Research project, No. 535/2008)

## *Published papers in Conferences Proceedings*

1. *Cosmin Stoica Spahiu* (2010): “A Multimedia Database Server Functionality”. In: Second International Conference on Advances in Multimedia (MMEDIA 2010), Athens – Greece, pp.148-154. ([IEEE Xplore](#))
2. *Cosmin Stoica Spahiu*, Liana Stănescu, Dumitru Dan Burdescu (2010): “A Multimedia Database Server and Client Implementation for Image Collections Management”. In: Proceedings of IV-th International Workshop on Enterprise Systems and Technology, pp.141-148, Athens – Greece, ISBN: 978-989-8425-44-7
3. Rozemary Scarlat, Liana Stănescu, Dumitru Burdescu, *Cosmin Stoica Spahiu* (2010): “E-Assessment System in a Medical Hybrid Learning Environment”, In: Proceedings of the 2010 International Conference on e-Learning, e-Business, Enterprise Information Systems, and e-Government, Las Vegas – USA, pp.9-15, ISBN: 1-60132-139-2 ([Inspec](#), [IET](#), [DBLP](#)).
4. *Cosmin Stoica Spahiu* (2010): “Analyzes of the processing performances of a Multimedia Database”. In: Proceedings of 3rd International Symposium on Multimedia – Applications and Processing (MMAP'10), Wisla – Poland, pp. 749–753, ISBN 978-83-60810-22-4, ([IEEE Xplore](#)).
5. Marius Brezovan, Dumitru Dan Burdescu, Eugen Ganea, Liana Stănescu, *Cosmin Stoica Spahiu* (2010): „An adaptive method for efficient detection of Salient Visual Object from color Images”. In: 20'th International Conference on Pattern Recognition (ICPR2010), pp.2346-2349, ISBN: 978-0-7695-4109-9, Istanbul – Turkey ([IEEE Xplore](#)).
6. Eugen Ganea, Dumitru Dan Burdescu, Marius Brezovan, Liana Stănescu, *Cosmin Stoica* (2010): „A System for Image Processing to Automatic Annotation”. In: Fifth International Multi-Conference on Computing in the Global Information Technology (ICCGI 2010), pp.87-92, ISBN: 978-1-4244-8068-5, Valencia – Spain ([IEEE Xplore](#), [CSDL](#)).
7. *Cosmin Stoica Spahiu* (2010): „Questions generation management system for e-learning”. In: 14th International Conference on System Theory and Control (SINTES 2010). Sinaia – Romania, pp. 546-549, ISSN 2068-0465
8. *Cosmin Stoica Spahiu* (2009): “A Multimedia Database Server for information storage and querying”. In: Proceedings of 2nd International Symposium on Multimedia – Applications and Processing (MMAP'09), Vol. 4, pg. 517 – 522. 978-83-60810-22-4. Mrągowo – Poland ([IEEE Xplore](#))
9. *Cosmin Stoica Spahiu*, Liana Stănescu, Dumitru Dan Burdescu, Marius Brezovan (2009): “File Storage for a Multimedia Database Server for Image Retrieval”. In: Proceedings of The Fourth International Multi-Conference on Computing in the Global Information Technology (ICCGI 2009), Cannes/ La Bocca – France, France ([Best Paper Award](#)), pp.35-40, ISBN:978-0-7695-3751-1 [IEEE Computer Society](#)
10. *Cosmin Stoica Spahiu*, Cristian Mihaescu, Liana Stănescu, Dan Burdescu, Marius Brezovan (2009): “Database Kernel for Image Retrieval”. In: Proceedings of The First International Conference on Advances in Multimedia (MMEDIA 2009),

- Colmar – France, 2009 (Best paper award) IEEE Computer Society, ISBN: 978-0-7695-3693-4, pp. 169-173
11. *Cosmin Stoica Spahiu*, Liana Stanescu, Dan Burdescu, Marius Brezovan (2009): “Visual Interface for Content-based Query in Image Databases”. In: Proceedings of Intelligent Interactive Multimedia Systems and Services (KES 2009). Springer, Vol.226, Mogliano Veneto – Italy, ISBN:978-3-642-02936-3, pp.231-240. ([SpringerLink](#))
  12. Liana Stănescu, Dumitru Dan Burdescu, Gabriel Mihai, Marius Brezovan, *Cosmin Stoica Spahiu* (2009): “Multimedia Elements for Medical e-Learning Improvement”. In: Proceedings of Intelligent Interactive Multimedia Systems and Services (KES 2009). Springer, Vol.226, Mogliano Veneto – Italy, ISBN:978-3-642-02936-3, pp.421-430 ([SpringerLink](#))
  13. Liana Stanescu, Dumitru Burdescu, Gabriel Mihai, Marius Brezovan, *Cosmin Stoica Spahiu* (2009): “A Graphical Interface for Medical E-Learning”. In: Proceedings of the 2009 International Conference on e-Learning, e-Business, Enterprise Information Systems, and e-Government, Las Vegas – USA, ISBN: 1-60132-100-7, pp.37-42 ([DBLP](#))
  14. Liana Stanescu, Dumitru Dan Burdescu, Marius Brezovan, *Cosmin Stoica Spahiu* and Anca Ion (2009): “A New Software Tool for Managing and Querying the Personal Medical Digital Imagery”. In: Proceedings of the International Conference on Health Informatics, Porto – Portugal, pg. 199-204 ([DBLP](#))
  15. *Cosmin Stoica Spahiu*, Liana Stanescu, Dumitru Dan Burdescu, Marius Brezovan (2009): “Multimedia Database Server Implementing Content Based Retrieval”. In: Proceedings of Third International Workshop on Enterprise Systems and Technology, Sofia – Bulgaria
  16. Gabriel Mihai, Liana Stanescu, Dumitru Dan Burdescu, Marius Brezovan, *Cosmin Stoica Spahiu*, (2009) A Topic Map for “subject-centric” Learning. In: Proceedings of the 3rd International Symposium on Intelligent Distributed Computing – IDC 2009, Ayia Napa, Cyprus, Studies in Computational Intelligence, Vol. 237, Springer, ISBN: 978-3-642-03213-4, pp.141-150 ([DBLP](#), [SpringerLink](#))
  17. Mihai Gabriel, Liana Stanescu, Burdescu Dan Dumitru, Marius Brezovan, Eugen Ganea, and *Cosmin Stoica Spahiu* (2009): “A Modern Tool for Viewing the Learning Resources”. In: Proceedings of ICHL, Macau- China, pp.331-341, ISBN: 3-642-03696-1, DOI: 10.1007/978-3-642-03697-2\_31
  18. Liana Stanescu, Dan Burdescu, Gabriel Mihai, Anca Ion, *Cosmin Stoica* (2008): “Topic Map for Medical E-Learning”, Proceedings of the 2<sup>nd</sup> International Symposium on Intelligent Distributed Computing (IDC 2008). Springer. Catania – Italy. Springer-Verlag 2008, Vol. 162/2008, pg. 305-310. ISBN: 978-3-540-85256-8 ([DBLP](#), [SpringerLink](#))
  19. Liana Stanescu, Dumitru Burdescu, Mihai Gabriel, *Cosmin Stoica*, Anca Ion (2008): “Access modalities to an imagistic library for medical e-learning”, Proceedings of European Conference on Research and Advanced Technology for Digital Libraries (ECDL 2008). Aarhus – Denmark. Lecture Notes in Computer

- Science 5173 Springer-Verlag 2008, pg. 260-263. ISBN 978-3-540-87598-7 ([ISI Proceedings](#), [DBLP](#), [SpringerLink](#))
20. Liana Stanescu, Dumitru Dan Burdescu, Anca Ion, and *Cosmin Stoica* (2008): “Using Multimedia to Improve Medical E-learning” Proceedings of International Conference on e-Learning, e-Business, Enterprise Information Systems and e-Government (EEE08), Las Vegas – USA. CSREA Press, ISBN 1-60132-063-9, pg. 96-101 ([DBLP](#))
  21. Liana Stanescu, Dumitru Dan Burdescu, *Cosmin Stoica Spahiu*, Anca Ion (2008): “A MEDICAL INFORMATION SYSTEM BASED ON ORACLE TECHNOLOGIES”, Proceedings of International Conference on Enterprise Information Systems (ICEIS 2008), pg. 417-420, Barcelona – Spain, ISBN: 978-989-8111-36-4. ([ISI Proceedings](#), [INSPEC](#), [DBLP](#))
  22. Liana Stanescu, Dumitru Dan Burdescu, Mihai Cristian Gabriel, Ion Anca, and *Cosmin Stoica* (2008): “Medical Imagistic Database Query for Educational Purpose”, International Conference on Hybrid Learning (ICHL 2008). Hong Kong (Lecture Notes in Computer Science 5328 Springer-Verlag, pg.121-132. [ISI Proceedings](#), [DBLP](#), [SpringerLink](#))
  23. Liana Stanescu, *Cosmin Stoica Spahiu*, Anca Ion, Andrei Spahiu (2008): “Question generation for learning evaluation”, Proceedings of First International Symposium on Multimedia – Applications and Processing (MMAP'08). Wisla – Poland. ([IEEE Xplore](#))
  24. Liana Stanescu, Dumitru Burdescu, *Cosmin Stoica-Spahiu*, Anca Ion, Dorin Stanescu (2008): “Using a complex numerical and multimedia database in internal medicine- Pre-release Evaluations”, Proceedings of International Conference on Health Informatics (HEALTHINF 2008). Springer Verlag, pg. 192-195. Funchal, Madeira – Portugal. ISBN 978-989-8111-16-6 ([ISI Proceedings](#), [INSPEC](#), [DBLP](#))
  25. Liana Stanescu, Dumitru Burdescu, *Cosmin Stoica*, Marius Brezovan (2007): “A study of two color systems used in content-based image query on medical imagery”, Proceedings of International Conference on Informatics in Control, Automation and Robotics (ICINCO 2007). Springer Verlag, pg. 337-340. Angers, France. ([ISI Proceedings](#), [DBLP](#))
  26. Liana Stanescu, Dan Dumitru Burdescu, Anca Ion, *Cosmin Stoica* (2007): “Content-based region query in databases with color images from digestive area”, Content-based Image Retrieval for Biomedical Image Archives: Achievements, Problems, and Prospects A MICCAI 2007 Workshop, Brisbane, Australia
  27. Liana Stanescu, Dumitru Burdescu, *Cosmin Stoica* (2007): “A Multimedia Database Management System for Medical Data”, Proceedings of International Conference on Signal processing and Multimedia Applications (SIGMAP 2007). Springer Verlag, pg. 371-374. Barcelona, Spain ([ISI Proceedings](#))
  28. Liana Stanescu, Dumitru Burdescu, *Cosmin Stoica*, Marius Brezovan (2007): “A database management system kernel for image collections”, Proceedings of International Conference on Enterprise Information Systems (ICEIS 2007).

- Springer Verlag, pg. 530-533. Funchal, Madeira - Portugal ([ISI Proceedings](#), [DBLP](#))
29. Liana Stanescu, Dumitru Dan Burdescu, Marius Brezovan, *Cosmin Stoica Spahiu*, Eugen Ganea (2007): “An integrated system for querying the medical digital collections”, *ISD Theory, Practice, and Education*. Springer-Verlag; Galway, Ireland. *The Inter-Networked World: ISD Theory, Practice, and Education*. Springer-Verlag New York, ISBN 978-0387304038 ([SpringerLink](#))
  30. Liana Stanescu, Dumitru Burdescu, *Cosmin Stoica* (2007): Color Image Segmentation Applied to Medical Domain. In: *Lecture Notes in Computer Science 4881* Springer-Verlag 2007, pg. 457-466 ([ISI Proceedings](#), [DBLP](#), [SpringerLink](#))
  31. Liana Stanescu, Dumitru Dan Burdescu, *Cosmin Stoica Spahiu* (2005): “Using R-Trees in Content-Based Region Query with Spatial Bounds”, *Proceedings of Synasc*, Timișoara, Romania
  32. C. Badica, M. Teodorescu, C. *Spahiu*, C. Fox, A. Badica (2005): “Integrating Role Activity Diagrams and Hybrid IDEF for Business Process Modeling using MDA”, *Proceedings of Synasc 2005*, Timișoara, Romania
  33. *Cosmin Stoica Spahiu*, Costin Badica, Gabriel Vladut, Michael J. Roberts “Design and implementation of a make-to-order e-commerce system”, *E-Comm-Line 2005 Conference*, București, Romania
  34. *Cosmin Stoica Spahiu*, Costin Badica, Gabriel Vladut, Michael J. Roberts (2005): “E-Commerce Supermarket System: Concept and Impact”, *Proceedings of SINTES 2005*, Craiova Romania
  35. Liana Stanescu, Dumitru Dan Burdescu, *Cosmin Stoica Spahiu* (2005): “Application For Complex Querying Of The Databases Obtained By Extracting Data From DICOM Files”, *Proceedings of ICTTA 2006*, Damascus, Syria, IEEE Computer Society Press, Vol.1, pg. 1008-1013 ([IEEE Xplore](#))

### ***Published papers in Journals***

1. *Cosmin Stoica Spahiu* (2010): “A multimedia database server: implementation and methods”. In: *International Journal of Computer Science & Applications (IJCSA)*, Vol. 7 No. 3, pp. 140 - 155, ISSN: 0972-9038. ([Scopus](#), [INSPEC](#), [DBLP](#), [WorldCat](#), [BULB Link](#), [Google Scholar](#), [DOAJ](#))
2. *Cosmin Stoica Spahiu*, Cristian Marian Mihaescu, Liana Stanescu, Dan Burdescu, Marius Brezovan (2010): “Functionality of a Database Kernel for Image Retrieval”. In: *International Journal On Advances in Networks and Services*, Vol. 3, No1&2, pp. 256-265, ISSN: 1942-2644 .
3. *Cosmin Stoica Spahiu* (2011): Testing The Performances Of A Multimedia Database System”. In: *International Journal of Computer Science & Applications*

(IJCSA). – *Sent for publication* (Scopus, INSPEC, DBLP, WorldCat, BULB Link, Google Scholar, DOAJ)