

Bilasco Ioan Marius

Age: 27 years (born on 8th January 1980)

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Education

2003–2007 Joseph Fourier University Grenoble, France

- **PHD Thesis in Compute Science : A semantic approach for the reuse and the adaptation of 3D data**

2002–2003 Joseph Fourier University Grenoble, France

- **Master degree in Computer Science (Informatique: Systèmes et Communication)**

2001–2002 Joseph Fourier University Grenoble, France

- **Third year of Bachelor in Computer Science**

1998–2002 Babes-Bolyai University Cluj-Napoca, Romania

- **Bachelor in Computer Science (4 years of university studies)**

Feb.- June 2001 Pierre Mendès France University Grenoble, France

- **ERASMUS/SOCRATES exchange student in third year of Bachelor**

Professional experience

Research assistant

2003-2007 Joseph Fourier University Grenoble, France

Assistant teacher

2006-20078 Technical University Institute (IUT1) - Joseph Fourier University Grenoble, France

2003–2006 ESISAR – National Polytechnic Institute of Grenoble (INPG) Valence, France

Training period

Internship

2003 SIGMA team, LSR-IMAG Laboratory Grenoble, France

- A software solution for enhancing the progressive access to information in KIWIS web-based applications

2002 SIGMA team, LSR-IMAG Laboratory Grenoble, France

- Portability and modularity issues in tool for generating web-based multimedia information systems

System and network administrator

1998–2001 Babes-Bolyai University Communication Centre Cluj-Napoca, Romania

- Script programmer and basic server administration tasks

Language and Technical skills

Languages

- French: spoken, read, written
- English: spoken, read, written
- Romanian : spoken, read, written

Programming:

- Languages : C/C++, Java, PROLOG, SQL, XML (XSLT, XQuery, etc), VRML/X3D, web programming,
- Software Design: OMT, UML, Design Patterns
- Operating Systems: DOS, UNIX

Research related activities

Supervising activities

- 12 internships related to various application domains: multimedia, adaptative hypermedia, personalisation, 3D.

Reviewing activities

- Member of the Program Committee of the 14th International Conference on Distributed Multimedia Systems, Boston, USA, September 2008.
- Member of the Program Committee of the 2nd International Conference on Geospatial semantic, Mexico City, November 2007.
- Participating to the Reviewing Committee of the Eurographics '07, Prague, République Tchèque, 3-7 sept. 2007
- Participating to the Reviewing Committee of the IEEE Multimedia, since April 06
- Participating to the Reviewing Committee of the 23th INFORSID Congress 2005, Grenoble, 24-27 may 2005.
- Participating to the Reviewing Committee of the ACM Symposium on Applied Computing (SAC) 2005, Santa Fe, New Mexico, 13-17 Mars 2005

Organisational activities

- Participating to the Organisational Committee of 23th (INFORSID) Congress 2005, Grenoble, 24-27 may 2005.
- Participating to the Organisational Committee of the CASSINI-SIGMA Conference on Geomatics and spatial analysis, Grenoble, France, 2-4 june 2004.

Social life

Hobbies

- cycling, football, tennis, reading, music, dance

Associative life

- Active member of the Romanian Cultural Association in Grenoble "Maison de la Roumanie"
- Dancer in the Romanian Folk Group "Les latins des Carpathes".

Research statement

In my work, I am exploring 3D representation models enhancing the personalisation of 3D scenes according to: a) the needs and the interests of the user and b) its preferences and its access device capabilities. Three main concepts are considered: the multimedia fragment –characterises the 3D object from a multimedia point of view (localisation, format, profile, etc.), the entity – a real-world entity that can be represented using, the semantic profile – associated to an entity cumulates the entity properties with regard to a specific application domain. Several semantic profiles can be associated to the same entity. And several multimedia fragment can materialize a given entity (for instance when different levels of details are available). These models were initially intend to support the common reuse (same object in several scenes), the semantic reuse (different semantics attached to object depending on the target application), and context-related reuse (personalisation or adaptation). We focus our study on the features presented in the X3D language- the Web3D/W3D standard for 3D scene representation. Other technologies employed: MPEG-7, MPEG-21.

Research results

International journal papers (with reviewing committee)

- Bilasco I.M. et al. - Towards geospatial queries in semantic digital library for 3D data , Transactions in GIS, Special Issue on The Geospatial Semantic Web, vol. 11 (3), pp. 337-353
- Bilasco I.M. et al. - STAMP: a Model for Generating Adaptable Multimedia Presentations, Multimedia Tools and Applications, Special Issue on Metadata and Adaptability in Web-based Information Systems, volume 25, number 3, March 2005, pp. 361-375

National journal papers (with reviewing committee)

- Bilasco I.M. et al. – Sémantique et modélisation de scènes 3D, RSTI – ISI, Métadonnées et nouveaux SI, vol. 12 (2/2007), pp. 121-135

International conference papers (with reviewing committee)

- Bilasco I.M. et al. – *Semantic-based Rules for 3D Scene Adaptation*, in Proc. of Web3D Symposium, Perugia, Italy, April 2007, pp.97-100 (*oral presentation*)
- Bilasco I.M. et al. - *An MPEG-7 framework enhancing the reuse of 3D models*, in Proc. of Web3D Symposium, Columbia, Maryland, April 2006, pp. 65-74 (*oral presentation*)
- Bilasco I.M. et al. - *Annotating 3D contents with MPEG-7 for reuse purposes*, in Proc. of IS&T/SPIE Symposium on Electronic Imaging, San Jose, California, January 2006 (*poster presentation*)
- Bilasco I.M. et al. - *3DSEAM: a model for annotating 3D scenes using MPEG-7*, in Proc. of IEEE ISM'05, Irvine, California, December 2005, pp. 310-319 (*oral presentation*)
- Bilasco I.M. et al. - *On indexing of 3D scenes using MPEG-7*, in Proc. of ACM MM'05, Singapore, November 2005, pp. 471-474 (*poster presentation*)
- Bilasco I.M. et al. - *STAMP: Adaptable Templates for Synchronized Multimedia Presentations*, in Proc. of ACM/WIC/IEEE WI'05, Compiègne, France, September 2005, pp. 645-648 (*oral presentation*)

National conference papers (with reviewing committee)

- Bilasco I.M. et al. - *Générer de présentations multimédia adaptées avec STAMP*, Actes de la 20ème Conférence BDA, Montpellier, France, 2004, pages 219-239 (*oral presentation*)

International workshop papers (with reviewing committee)

- Bilasco I.M. et al. - *User localization using a typology of 3D queries*, in Proceedings of the first International Workshop on Mobile Geospatial Augmented Reality, Banff, Alberta, Canada, Mai 2006

Book chapters

- Bilasco I.M., Gensel J., Villanova-Oliver M., Martin H. - *Indexing 3D scenes*, in Encyclopedia of Multimedia, Springer (ed. B. Furht), ISBN: 0-387-24395-X, 2006, pp. 340-349