Tiberio Uricchio

PhD Student, Computer Engineer

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Bio

Tiberio Uricchio was born on 5 Aprile 1985 in Bagno a Ripoli (Firenze, Italy) and has italian citizenship. He received a BSc degree in Computer Engineering from the University of Florence in 2009 with a thesis on semantic video annotation. He recently received a MSc degree in Computer Engineering from the University of Florence with a thesis titled "Learning to tag images" ("Apprendimento automatico per tagging di immagini su base semantica e sociale") under the supervision of Prof. Alberto Del Bimbo and Prof. Paolo Frasconi. He's currently a PhD Student under the supervision of Prof. Alberto Del Bimbo focusing on image and video automatic annotation. His main interests are image understanding, machine learning and pattern recognition. On leisure time he reveals his creativity in photography.

Current Position

2012 Nov 30 – today **PhD Student** at *Visual Information and Media Lab*, Media Integration and Communication Center (MICC), University of Florence (Italy) under the supervision of Prof. Alberto Del Bimbo, Ing. Marco Bertini PhD and Ing. Lamberto Ballan PhD.

Education

2009 – 2012 **MSc Computer Engineering**, *University of Florence*, Florence (Italy), (2 years degree).

Vote: 110 / 110 cum laude.

Thesis: Learning to tag images (Apprendimento automatico per tagging di immagini su base semantica e sociale).

Supervisors: Prof. Alberto Del Bimbo, Prof. Paolo Frasconi, Marco Bertini PhD, Lamberto Ballan PhD.

2004 – 2009 **BSc Computer Engineering**, *University of Florence*, Florence (Italy), (3 years degree).

Vote: 106 / 110.

Thesis: Sistemi di Annotazione e consultazione di contenuto video trascritto e strutturato su base semantica (in italian).

Supervisors: Prof. Alberto Del Bimbo, Thomas Alisi PhD, Andrea Ferracani.

Professional Experience

Research

2011 – 2012 **Research Assistant**, *MICC, University of Florence*, Florence (Italy).

Description: Development of an automatic system for image tagging based on bag-of-words approach. (Studio e sviluppo di un sistema di annotazione automatica di concetti visuali basati su approccio bag-of-words).

2010 – 2011 **Research Assistant**, *MICC, University of Florence*, Florence (Italy).

Description: External collaboration in european project "euTV - Adaptive Channels in Europe" focusing on learning and testing systems of image classifiers with bag-of-words approach.

Developer

2008 – 2009 **Web Developer**, *Rednoodles s.r.l.*, Florence (Italy).

Description: Person in charge for the architecture of web sites using CMS Drupal, web developer. Three notable projects: "Alicemusica" for Telecom Italia spa, "LookLook" advergame, game platform for Silvian Heach Kids and a brand portal for Just Move.

Publications

International Journals

[J1] X. Li*, **T. Uricchio***, L. Ballan, M. Bertini, C. GM Snoek, A. Del Bimbo, "Socializing the Semantic Gap: A Comparative Survey on Image Tag Assignment, Refinement and Retrieval", *arXiv preprint arXiv:1503.08248* (* indicates equal contribution), currently submitted to *ACM Computing Surveys.*

[J2] C. Baecchi, **T. Uricchio**, M. Bertini, A. Del Bimbo, "A multimodal feature learning approach for sentiment analysis of social network multimedia", *Multimedia Tools and Applications*, May 2015.

[J3] L. Ballan, M. Bertini, **T. Uricchio**, A. Del Bimbo, "Data-driven approaches for social image and video tagging", *Multimedia Tools and Applications*, April 2014, pp 1-26.

[J4] T. M. Alisi, A. Del Bimbo, A. Ferracani, **T. Uricchio**, E. Hoxha, B. Bregasi, "LIT: transcription, annotation, search and visualization tools for the Lexicon of the Italian Television", *Multimedia Tools and Applications*, September 2012, Volume 60, Issue 2, pp 327-346.

International Conferences and Workshops

[C1] F. Gelli, **T. Uricchio**, M. Bertini, A. Del Bimbo, S.F. Chang, "Image Popularity Prediction in Social Media using Sentiment and Context Features". In *Proc. of ACM International Conference on Multimedia (ACM MM)*, Brisbane, Australia, 2015. (Acceptance Rate 29.5%)

[C2] L. Ballan*, **T. Uricchio***, L. Seidenari, and A. Del Bimbo, "A Cross-media Model for Automatic Image Annotation". In *Proc. of ACM International Conference on Multimedia Retrieval (ICMR)*, Glasgow, UK, 2014. (* indicates equal contribution) (Oral, Acceptance Rate 19%)

[C3] **T. Uricchio**, L. Ballan, M. Bertini, and A. Del Bimbo, "Evaluating Temporal Information for Social Image Annotation and Retrieval". In *Proc. of International Conference on Image Analysis and Processing (ICIAP)*, Napoli, Italy, 2013. (Poster)

[C4] L. Ballan, M. Bertini, **T. Uricchio**, and A. Del Bimbo, "Social Media Annotation". In *Proc. of IEEE International Workshop on Content-Based Multimedia Indexing (CBMI)*, Veszprem, Hungary, 2013. (Invited)

[C5] **T. Uricchio**, L. Ballan, M. Bertini, and A. Del Bimbo, "An Evaluation of Nearest-Neighbor Methods for Tag Refinement". In *Proc. of IEEE International Conference on Multimedia & Expo (ICME)*, San Jose, CA, USA, 2013. (Poster)

[C6] **T. Uricchio**, L. Ballan, M. Bertini, and A. Del Bimbo, "MICC-UNIFI at ImageCLEF 2013 Scalable Concept Image Annotation". In *Proc. of Conference and Labs of the Evaluation Forum (CLEF)*, Valencia, Spain, 2013.

Teaching Experience

2012 – 2015   **Teaching Assistant**, *Multimedia Databases (Basi di dati Multimediali).*

Master student co-advised, *(Laurea Magistrale).*
Alessio Antonielli, 2014.10, "Automatic image annotation using deep canonical correlation analysis"
Simone Macaluso, 2014.10, "A temporal analysis of social images for semantic annotation"
Francesco Gelli, 2015.04, "Image Popularity Prediction in Social Networks using Multimedia and Social Features"

Service to Scientific Community

2010   Volunteer at ACM Multimedia 2010.

2012   Volunteer at European Conference on Computer Vision (ECCV) 2012.

2014-2015   Reviewer for MTAA journal.

Conference attended

2014 **ICMR 2014**, International Conference on Multimedia Retrieval, Glasgow, UK, 1-4 April 2014.

2013 **ICIAP 2013**, International Conference on Multimedia Retrieval, Napoli, Italy, 9-13 September 2013.

2013 **ICVSS 2013**, International Computer Vision Summer School directed by Prof. Roberto Cipolla (Univ. of Cambridge, UK), Prof. Sebastiano Battiato (Univ. of Catania, Italy) and Prof. Giovanni Maria Farinella (Univ. of Catania, Italy) with the participation of over 15 renowned experts in the field.

2011 **Co-Nan 2011**, Computational Nanotechnologies Summer School directed by Prof. Jaroslaw Rybicki (Univ. of Gdansk, Poland).

Honors, Awards and others

2012 **Certificate of Appreciation**, to our *Student Volunteers* at the *European Conference in Computer Vision ECCV 2012*, Florence. Released by the General Chairs: Prof. Alberto Del Bimbo (Univ. of Florence), Prof. Carlo Colombo (Univ. of Florence) and Prof. Roberto Cipolla (Univ. of Cambridge).

2004 **Silver Medal** at OII 2004 (Italian Computer Olympics)

Computer skills

Operating Systems | Mac OS X, Windows, *NIX

Programming Languages | C/C++ (6 y+), Python (5 y), Matlab (4 y), OpenCL, CUDA, Java 6, Javascript, PHP, AJAX, SQL, Assembler X86, Bash scripting, Flex, Flash, Visual Basic 6.

Technologies, libraries, frameworks | OpenCV, boost, Intel®Thread Building Blocks, MongoDB, Drupal, IPv4 WAN/LAN architectures, basic Cisco administration, Linux system administrator, Rocks Cluster.

Languages

Italian | *mothertongue*

English | *intermediate*: Excellent reading, intermediate writing and speaking.

Notes

2015 July 02 | I hereby authorize handling my personal data as specified in the italian DLGS 196/2003.