

PERSONAL INFORMATIONS

- **Name** : *Alessio*
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EDUCATION

- **High-School Diploma** : *awarded July 1999*
Liceo Scientifico G.D. Cassini, Genova (ITALY).
Scientific studies - specialization : computer science.
- **“Laurea” degree (M.Sc.)** : *Telecommunication Engineering, February 2006.*
Università di Genova - Department of Biophysical and Electronic Engineering (DIBE), Genova (ITALY).
Dissertation title: *“Study and Development of Colour-Based Classification Techniques for Occlusions Handling in Multicamera Video-Surveillance Systems”.*
Supervisor: *Prof. C.S. Regazzoni*
Co-supervisors: *Dr. Eng. Stefano Piva and Dr. James Orwell.*
- **Abilitazione alla Professione di Ingegnere** (literally **Qualification for Engineering Professional Activity**)
obtained in University of Genova, Italy - July 2006
- **Ph. D.** : *Space Sciences and Engineering - Science and Technology for Information and Knowledge Doctoral School, January 2007 – now.*
Università di Genova - Department of Biophysical and Electronic Engineering (DIBE), Genova (ITALY).
Tutor: *Prof. C. S. Regazzoni*

BACKGROUND

- **Characterizing M.Sc. coursework** : Pattern Recognition, Image Processing, Signal Processing, Operation Research, Telecommunication Networks, Radiocommunication Systems, Telecommunication Systems, Optical Communications, Remote Sensing.
- **Integrative courses**
 - ◇ *Centralized Data Fusion* (speaker: Prof. P.K. Varshney – University of Syracuse), April '03;
 - ◇ *Distributed Data Fusion* (speaker: Prof. K.N. Plataniotis – University of Toronto), May '04.
 - ◇ Workshop on: *“Analytic Methods for Learning Theory”* (speakers: Prof. Steve Smale – TTI; Prof. Tomaso Poggio – MIT), 30 October '04.
 - ◇ *Quantum Information Processing* (speaker: Dott. Enrico De Micheli – CNR Università di Genova), March '04;
 - ◇ *From Quantum Physics to Quantum Engineering and Technology* (speaker: Ing. Giuseppe Castagnoli – ELSAG), Marzo '04.
- **Ph.D. Courses** :
 - ◇ *Vector-space transformation techniques for multivariate statistical analysis* (speaker: Dr. G. Moser – University of Genova), February – March '07;

WORK EXPERIENCE

- **Kingston University** : *consultancy service (100 h)* for the generation of Ground truth datasets for a series of video sequences.
May '05.
- **CNIT - National Interuniversity Telecommunication Consortium** : *collaborator contract*. Partecipation to the research project: "NASIA – New Satellite-based Application in the ATM field" focusing on the study of feasibility for the integration of Advanced Video-Surveillance Systems with Satellite Navigation Systems for airport applications.
March '06 – June '06
- **DIBE - Department of Biophysical and Electronic Engineering, University of Genova** : *collaborator contract*. "Study and development of Image Processing methodologies for detecting objects still on railways".
July '06 – Jan '07

DIDACTIC EXPERIENCE

- **Co-supervisor** of the following thesis:
 - E. Piccardo: "A Bayesian Approach to Multi-target Detection and Tracking in Video Surveillance Problems" supervisors: Prof. C. S. Regazzoni, Dr. Eng. A. Cavallaro; co-supervisors: Eng. E. Maggio, Eng. A. Dore - M.S. thesis in Telecommunication Engineering, discussed in June 2006.
 - S. Melis: "Study and development of Radio-Video Data Fusion Techniques for Multiple Object Localization in Smart Spaces (Studio e sviluppo di tecniche di fusione dati radio-video per la localizzazione di oggetti multipli in ambienti intelligenti - in Italian)" supervisors: Prof. C. S. Regazzoni; co-supervisors: Eng. A. F. Cattoni, Eng. A. Dore - M.S. thesis in Telecommunication Engineering, discussed in November 2006.
 - D. Calbi: "Performance verification of the classification module of the surveillance system P.S.A. (Panoramic Scene Analysis) (Verifica delle prestazioni del modulo di classificazione del sistema di videosorveglianza P.S.A. (Panoramic Scene Analysis) - in Italian)" supervisors: Prof. C. S. Regazzoni; co-supervisors: Dr. C. Coelho, Eng. A. F. Cattoni, Eng. A. Dore - B.S. thesis in Telecommunication Engineering, discussed in February 2007.
 - M. Pinasco: "Context learning and analysis based on dynamic models of interactions between cognitive entities and Smart Spaces (Apprendimento ed analisi di contesto basati su modelli dinamici delle interazioni tra entità cognitive ed Ambienti Intelligenti) - in Italian)" supervisors: Prof. C. S. Regazzoni; co-supervisors: Eng. A. Dore, Eng. A. Calbi - M.S. thesis in Telecommunication Engineering, discussed in March 2007.

COMPUTER SKILLS

- **Programming Languages** : C/C++, Matlab
- **Libraries** : OpenCv, Ipl, SVMlib, LTIlib, Bayesian Filtering Libraries, Bayes++
- **Operating System** : Microsoft Windows XP, Linux (Mandrake, SuSe, Debian)
- **Other** : \LaTeX , Microsoft Office (Word, Excel, PowerPoint), Matlab Simulink

LANGUAGES SKILLS

- **Italian** : mother tongue
- **English** : fluent, oral and written

INTERNATIONAL EXPERIENCE

- **2 weeks** intensive course in English as a foreign language at International House Folkestone, Folkestone (U.K.) – (*July 1998*)

- **5 months** at Kingston University – London (U.K.) for developing the software necessary for my Master Thesis project (*Jan. 2005 - Jun. 2005*)

PUBLICATIONS

CONFERENCE PAPERS

- [C1] Y. Li, **A. Dore**, and J. Orwell, "Evaluating the performance of systems for tracking football players and ball," in *IEEE Proc. of Int. Conf. on Advanced Video and Signal based Surveillance, AVSS '05*, Como, Italy, September 2005, pp. 632–637.
- [C2] **A. Dore**, M. Asadi, and C. S. Regazzoni, "Multiple hypothesis shape tracking using particle filtering and Hough-based observation models," [Invited Paper] *SPIE Electronic Imaging - Visual Communications and Image Processing, VCIP 2007*, San Jose, CA, USA, January 2007.
- [C3] A. F. Cattoni, **A. Dore**, and C. S. Regazzoni, "Video-Radio Fusion Approach for Target Tracking in Smart Spaces," *Int. Conf. on Information Fusion, FUSION 2007*, Québec City, Québec, Canada, 9 – 12 July 2007, accepted.
- [C4] **A. Dore**, M. Pinasco, and C. S. Regazzoni, "A Bio-inspired Learning Approach for the Classification of Risk Zones in a Smart Space," *Online Learning for Classification Workshop, in conjunction with CVPR 2007*, Minneapolis, MN, USA, 18 – 23 June 2007, accepted.
- [C5] **A. Dore**, M. Musso and C. S. Regazzoni, "MAP Particle Selection in Shape-Based Object Tracking," *IEEE Int. Conf. on Image Processing, ICIP 2007*, San Antonio, TX, USA, 16 –19 September 2007 accepted.
- [C6] **A. Dore**, A. Cattoni and C. S. Regazzoni, "A Particle Filter-Based Fusion Framework for Video-Radio Tracking in Smart-Spaces," *IEEE Int. Conf. on Advanced Video and Signal based Surveillance, AVSS 2007*, submitted.
- [C7] M. Asadi, **A. Dore**, A. Beoldo, and C. S. Regazzoni, "Tracking by Using Dynamic Shape Model Learning in the Presence of Occlusion," *IEEE Int. Conf. on Advanced Video and Signal based Surveillance, AVSS 2007*, submitted.

ATTENDED CONFERENCES

- IEEE International Conference on Advanced Video and Signal-Based Surveillance (AVSS '05) - Como, Italy, September 15-16, 2005. **Poster presentation.**
- SPIE Electronic Imaging, Visual Communication and Image Processing (VCIP '07) - San Jose, CA, USA, January 28 - February 1, 2007. **Oral presentation.**

VISITS AND SEMINARS

- **Visit**, Massachusset Institute of Technology (MIT), Center for Biological and Computational Learning - Cambridge, MA, USA, January 25, 2007.
- **Seminar** : "A Bio-inspired Learning Method for a System-User Interaction Application", Mitsubishi Electrical Research Laboratories (MERL) - Cambridge, MA, USA, January 26, 2007.

TECHNICAL REPORTS

- **A. Dore**, L. Marcenaro and C. S. Regazzoni, "Metriche di Valutazione delle Prestazioni di Sistemi Distribuiti di Videosorveglianza" (Performance Evaluation Metrics for Distributed Videosurveillance Systems) in Italian, D21 ELSAG 297, July 2006
- **A. Dore**, L. Marcenaro and C. S. Regazzoni, "Modelli per la Valutazione delle Prestazioni di Sistemi Distribuiti di Videosorveglianza" (Performance Evaluation Models for Distributed Videosurveillance Systems) in Italian, D22 ELSAG 297, July 2006
- **A. Dore**, L. Marcenaro and C. S. Regazzoni, "Standard di Validazione di Sistemi Distribuiti di Videosorveglianza" (Validation Standards of Distributed Videosurveillance Systems) in Italian, D23 ELSAG 297, July 2006

PERSONAL INTERESTS

- **Sports** : Martial Arts (*Certified instructor* of Jeet Kune Do), Running, Rock Climbing, Cycling, Swimming, ...
- **Reading**
- **Travelling**