

## Curriculum Vitae of Prof. Roberto Pugliese

### GENERAL INFORMATION

### RELEVANT EDUCATION AND CAREER STAGES

June 1990: Laurea degree in Information at the University of Udine with the grade 110/110 *and laude*; the Thesis work was entitled: "Tecniche di Apprendimento Automatico applicate alla percezione di un Robot Mobile"

April 1991 - March 1993: Post-degree courses on "Compilers", "Operating Systems" e "Knowledge Based Systems", part of the Master in Computer Science organised by University of Huston and held in Pordenone (Italy)

September 1991 - September 1993: Junior Researcher, responsible for software development at Salvagnini S.p.A. of Vicenza (Italy), company operating in the field of industrial automation (flexible manufacturing systems).

December 1999 - December 2001 (also): collaborator of NE&T S.r.l., company operating in the field of Internet Technologies with the role of responsible for Research and Development and since January 2001 of Technical Director.

From October 2002 to October 2009 (also): Professor by contract at University of Udine of E-Commerce - Laurea course on Web and Multimedia Technologies.

October 1994 - today: with different roles from Technologist to Technical Officer to Research Coordinator at Sincrotrone Trieste S.C.p.A. currently Coordinator of the Technology Platform project clusters and Head of Scientific Computing.

October 2010: Executive Master degree in Business Administration (MBA) at MIB School of Management in Trieste *with merit*, the Thesis work: "Il Controllo di Gestione negli Enti di Ricerca: Il Caso di Studio della Sincrotrone Trieste SCpA"; project work: "MyBSC: Una Balanced Score Card Come Strumento per lo Sviluppo Personale".

November 2011 - today: President of Tripole Scientific S.r.l., company active in the field of scientific computing and IPR.

### EXPERTISE

Distributed Control Systems, Real-Time Systems, Human Computer Interaction, Object and Relational Database Management Systems, Network Programming, Client/Server Computing, Distributed System Management, Object Oriented System Development, Internet/Intranet (Web based) System Development, System Integration. Excellent programming experience in C,C++,Java, JSP, HTML, in the development of distributed systems using CORBA, WebServices, Grid and Cloud Services, Business Administration, Balanced Score Cards.

### RESEARCH ACTIVITIES

He has published more than 20 articles in scientific journals and is co-author of 3 books about Instrumentation, Grids and Clouds and ICT research Infrastructures edited by Springer. He is currently coordinating the implementation of a Management Control System and a Strategic Control System of Sincrotron Trieste SCpA, a Matrix Organization, Project based, Research Institution.

**Current research interests**

Grid technologies, e-Science, Collaboratories, Human computer interaction, Scientific visualisation, Scientific computing, Advanced Collaboration Environments, Instruments and Sensors Grids, Interactive Grid, Web services and Service Oriented Architecture, Mobile Robotics, Cloud Systems, Project Management, Management Control, Strategic Control, Personal Development.

**Former research interests**

Uncertain reasoning in Knowledge Based Systems, Image processing e Machine vision, Multisensory integration and fusion, Intelligent Control System, Machine Learning, Distributed Control Systems, Real-Time Systems, Object and Relational Database Management Systems, Network Programming, Client/Server Computing, Distributed System Management, Object Oriented System Development, Internet/Intranet (Web based) System Development, System Integration.

**TEACHING EXPERIENCES**

Co-relator of many Laurea thesis works at the Universities of Trieste and Udine.  
Teacher of the First Control Systems National School organised by CNR/Elettra, in October 1998.  
Teacher of "Tecniche di Programmazione" at ENAIP of Udine, 1990.  
Teacher of Informatics and Information Systems at the post-diploma course for "Tecnico per l'innovazione nelle tecnologie dei controlli", february 2000.  
Professor of E-Commerce – Laurea course on Web and Multimedia Technologies, University of Udine, October 2002 – October 2009.  
Teacher of Practical Project Management", Sincrotron Trieste SCpA, since October 2010.  
Teacher of "Il Controllo di Gestione per Commessa", seminar by Group Euroconference, November 2010  
Teacher of "Personal Balanced Scorecard: Strategie e strumenti professionali per il cambiamento e lo sviluppo personale", MIB School of Management, Trieste, 2012.  
Professor of Project Management, Master in Complex Actions, SISSA, Trieste, 2012.

**OTHER ROLES**

Member IEEE Computer Society since 1990, Member of the International Scientific Advisory Committee of International Conference NOBUGS since 1998 and since December 2003 member of the working group on Remote Experiments in Accelerator Physics of the International Committee for Future Accelerators (ICFA). Member of the Global Grid Forum, now Open Grid Forum since 2005. Since 2006 Co-chair and member of the Program Committee of the INGRID International Conference. Since 2004 workpackage coordinator or technical leader in regional, national and international ICT projects (BIOXHIT, IA-SFS, EUROTev, GRIDCC, GRID@TS, EGEE-II, DORII, MADBAG, I-SOI, PANDATA-EU). Member of the Project Management Institute, Northern Italian Chapter, since 2012. Since March 2011 is managing a group of blogs dedicated to different aspects of personal growth and development (<http://my-bsc.blogspot.com/>, <http://my-projectmanagement.blogspot.com/>, <http://my-operatingsystem.blogspot.com/>, ...).

**SELECTED BIBLIOGRAPHY**

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- R. Pugliese, The GridCC project providing a real-time Grid for distributed instrumentation, 10th International Conference on Accelerator and Large Experimental Physics Control System (ICALEPCS 2005), Geneva, Switzerland, October 2005.
- R.Ranon, R. Pugliese, The Elettra Virtual Collaboratory: a CSCW System for Scientific ExperimUltra- Bright Light Sources, Proceedings of HCITALY, 2003
- R.Pugliese et al., "Collaborative Environments for the Grid: The GRIDCC Multipurpose Collaborative Environment", Distributed Cooperative Laboratories - Networking, instrumentation and Measurements, Springer, 2006.
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