

CV Gionata Gelati 2005

First Name: Gionata Surname: Gelati Sex: Male Born: 11/09/1975 Mirandola (Modena) Italy

Languages: English: spoken and written, German: spoken, not good writing, French: understood

Degree: PhD. in Information Engineering

Current research interests: DSMS, sensor networks, embedded systems

2004-2005 Designer and Programmer – Kepos SRL

My job has been focusing on the design and implementation of an Object oriented persistence layer developed using Microsoft .Net (language C#). The system:

- accepts ODL statements
- manages class with fields (including correlation), instances with properties, inheritance, checked deletion with casting
- solves OQL statements (only query with no joins are supported for the time being, working on extensions)
- persists .Net compiled objects
- uses commercial relational DBMS
- uses a meta-schema to store data
- a web object library which accepts as input instances has been built
- has an embrionic plug-in architecture to support external data sources
- has transformation utilities to produce relational schema out of the objects

Currently, we are working towards making the system stand alone by providing support for its own data files, physical and logical partitioning. Further, optimization are being applied and a re-engineering of the plug-in architecture to support transparently external data sources is being designed.

2001 – 2005 PhD – Dissertation title “Agent technology applied to information systems”

Supervisor: Prof. Sonia Bergamaschi

Institution: University of Modena and Reggio Emilia (Italy)

The dissertation focuses on the application of agent technology to systems which deal with heterogeneous data integration in network settings. The thesis includes research carried out in the WINK and SEWASIE projects funded by the European Commission. Dissertation areas:

- theory and techniques related to intensional and extensional integration of data
- concepts and practices related to mobile software for the Java environment
- UML extension to meet the requirements of multi-agent systems
- Experiment management and configuration

During my PhD. years I had also the opportunity to prepare and give talks as parts of academic courses or seminars.

2001 – Master thesis - “A benchmarking environment for validating a data warehouse maintenance cost-model” – University of Exeter

Supervisor: Dr. Brian Lings

Institution: University of Exeter (UK)

The thesis focused on building a benchmarking environment for testing a cost model for evaluating maintenance policies. The goal was to critically collect evidence of the goodness of the cost model that was being developed by Henrik Engstroem (University of Skoevde, Sweden) as part of his PhD in computer science at University of Exeter (UK). The results of the thesis contributed towards the refinement of the cost model. The thesis was supported by an Erasmus grant to my name.