europass Curriculum vitae

PERSONAL INFORMATION

Gioel Asuni

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Sex Male | Date of birth 15/02/1971 | Nationality Italian

PREFERRED JOB

IT Consultant

WORK EXPERIENCE

01/09/2002–31/03/2006

Research and development department manager

Scuola Superiore Sant'Anna, Pisa (Italy)

During my Ph.D. I was involved in several European community projects and author of many educational publications presented in international conferences.

In particular I was involved, as team leader, on a project with the TOYOTA MOTOR ENGINEERING & MANUFACTURING EUROPE:

the objective of ExPer project was to achieve efficient visuo-motor coordination in real-world environment by applying the Expected Perception (EP) based strategy.

The anthropomorphic robotic system used was very complex to not allow a classical solution.The goal was achieved by using a set of neural networks that, through a training phase, learned the complex functions needed to solve the various tasks.

In addiction, I held some lessons on neural networks during the course of robotics perception at the University of Pisa and a seminary at the University of Genova.

01/04/2006–Present

IT Consultant

Gioel Asuni, Pisa (Italy)

- Data scientist
- Apple developer
- DB developer
- Web developer
- Android developer
- IoT developer

- Programming languages: C, C++, C#, Objective-C, Swift, Prolog, Lisp, Caml, ML, XML, XSLT, SQL, JavaScript, HTML, CSS, PHP, Python, R, Java etc.

- Technologies: Python data science stack (Jupyter Notebook, NumPy, Pandas, scikit-learn, tensorflow)

- Tools: Anaconda, Canopy, Orange, R studio, Xcode, Android Studio, Visual Studio, Office

Excellent computer skills on Artificial Intelligence, Knowledge-based Systems, Machine Learning, Neural Networks, Fuzzy Systems, Reinforcement Learning, Genetic Algorithms.

EDUCATION AND TRAINING

01/01/1992–19/06/2002

MSc, Computer Science

University of Pisa, Pisa (Italy)

Double Major: Computational Intelligence and Knowledge-based Systems
Thesis Title: *"A neuro-controller for robotic manipulators based on biologically-inspired visuomotor coordination neural models"*

01/01/2003–31/12/2006

PhD, Bioengineering, Materials Engineering and Robotics

University of Genova, Genova (Italy)

Dissertation Title: *"Bio-Inspired Neural Sensory-Motor Coordination Schemes For Robot Reaching, Preshaping and Grasping."*

PERSONAL SKILLS

Mother tongue(s): Italian

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	B1	B1	A2	A2	B2

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Organisational / managerial skills

- consulting staff from different parts of a client's organisation
- analysing an organisation's data
- determining information system requirements and defining project objectives
- making recommendations, such as suggesting appropriate software and systems
- designing, installing and trialling new systems and software, and fixing any issues that arise
- writing reports and documentation

Job-related skills

I've passion for Machine Learning and Data Science.
I enjoy work on complex data analysis, data mining, machine learning and big data tasks.
To deepen my data science skills, I keep learning new tools and taking online courses.

- Meticulous approach to work
- Attention to detail
- Capable of meeting high standards
- Good problem-solving skills
- Analytical and technical skills
- Effective time management skills to meet deadlines

Digital competence

SELF-ASSESSMENT

Information processing	Communication	Content creation	Safety	Problem solving
Proficient user	Proficient user	Proficient user	Proficient user	Proficient user

Digital competences - Self-assessment grid

Driving licence A, B

ADDITIONAL INFORMATION

Publications **Book chapter:** *Chapter 26. Neurocontroller for Robot Arms Based on Biologically Inspired Visuomotor Coordination Neural Models*

Book: Handbook of neural engineering / edited by Metin Akay. Wiley. Handbook of neural engineering

References Gioel Asuni - Inventor: **Japan Patent 2007-245326**
Konosu Hitoshi, Ota Yasuhiro, Paolo Dario, Cecilia Laschi, Eugenio Guglielmelli, Zbigniew Wasik, Edoardo Datteri, Gioel Asuni, Maria Chiara Carrozza, Giancarlo Teti:*Robot, and robot control method.* Toyota Motor September 2007

Seminars http://www.lira.dist.unige.it/limbs/abstracts/asuni+urbanek.htm

Conferences Cecilia Laschi, Gioel Asuni, Eugenio Guglielmelli, Giancarlo Teti, Roland S. Johansson, Hitoshi Konosu, Zbigniew Wasik, Maria Chiara Carrozza,Paolo Dario:
A bio-inspired predictive sensory-motor coordination scheme for robot reaching and preshaping. Auton. Robots 25(1-2): 85-101 (2008)

Conferences Gioel Asuni, Giancarlo Teti, Cecilia Laschi, Eugenio Guglielmelli, Paolo Dario:
Extension to End-effector Position and Orientation Control of a Learning-based Neurocontroller for a Humanoid Arm. IROS 2006: 4151-4156

Conferences
- Gioel Asuni, Giancarlo Teti, Cecilia Laschi, Eugenio Guglielmelli, Paolo Dario:
A Robotic Head Neuro-controller Based on Biologically-Inspired Neural Models.ICRA 2005: 2362-2367

Conferences
- Edoardo Datteri, Gioel Asuni, Giancarlo Teti, Cecilia Laschi, Paolo Dario, Eugenio Guglielmelli:
Experimental analysis of the conditions of applicability of a robot sensorimotor coordination scheme based on expected perception.IROS 2004: 1311-131