Angelo Ferrando

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EDUCATION

UNIVERSITY OF GENOA

BS in Computer Science with honors
September 2010 - July 2013 |
University of Genoa

MS in Computer Science with honors
September 2013 - October 2015 |
University of Genoa

PhD in Computer Science
November 2015 - Present |
University of Genoa

LINKS

https://angeloferrando.github.io/website/
ResearchGate://**Angelo_Ferrando**
Linkedin://**Angelo_Ferrando**

COURSEWORK

GRADUATE
Computer and Network Security
Computer Vision
Computer Graphics
Implementation of Programming Languages
Software System Design
Intelligent System
Machine Learning
Computational Intelligence
Computer-Aided Verification
Parallel Computing
Programming Paradigms

UNDERGRADUATE
Algorithms and Data Structures
Object-Oriented Languages using Java and C#
Database
Concurrent Programming
Web application development
Processing systems and transmission
Software Engineering

SKILLS

PROGRAMMING
Over 5000 lines:
C • C++ • Java • C# • MySQL •
PHP • LaTeX • Prolog • HTML
Over 1000 lines:
Shell • CSS • JavaScript •
Familiar:
Python • Android • Matlab • Haskell

WORK EXPERIENCE

SIMULATION TEAM
October 2012 - May 2014 |
Via Luigi Cadorna, 2, 17100 Savona Province of Savona, Italy
Software Developer in Modeling and Simulation context
I was actively involved in the development of an optimizer integrated in a simulation tool for the Early-Phase evaluation of new vessels. I was active in the development of simulation models for contract ongoing between MAST and OSN (FINCANTIERI and FINMECCANICA joint-venture). I was actively involved in a project for Modeling UAV in counter-insurgency and in the integration IA-CFG UCOIN project; in this project intelligent agents are used to simulate complex UAV activities integrated with joint operations over a North-African scenario. I had experience in Virtual Modeling with VEGA Prime and Multigen Creator.

LANGUAGE KNOWLEDGE

FIRST CERTIFICATE IN ENGLISH (FCE) LEVEL B2.

ORGANIZATIONAL SKILLS

I am able to organize my own goals and I have demonstrated in the workplace to be able to handle even the work of others. During my life I had to manage different situations in which it was required to be able to take decisions independently.

DRIVING LICENSE

B LICENSE

HONORS AND AWARDS

- Special mention for the Master's thesis: *"Trace expressions for runtime verification and protocol-driven behaviour".*

OTHER ACTIVITIES

STUDY ABROAD
- 2 months at the University of Liverpool (Jan - Feb 2017)

ORGANIZATION
- Local organizer at the 15th International Conference of the Italian Association for Artificial Intelligence, Genova.

PHD SCHOOLS
- Bertinoro International Spring School 2016 (BISS 2016)
- 12th Summer School on Modelling and Verification of Parallel Processes, (MOVEP 2016)
- 18th European Agent Systems Summer School (EASSS 2016)

COMPETITIONS
- International Cultural and Academic Meeting of Engineering Students (ICAMES 2013)
- NASA - Simulation Exploration Experience (SEE 2013)
- NASA - Simulation Exploration Experience (SEE 2014)

CONFERENCES

- 2017
  - Autonomous Agents And MultiAgent Systems International Conference (AAMAS), São Paulo (Brazil)
- 2016
  - The Luxembourg BabelNet Workshop
  - Autonomous Agents And MultiAgent Systems International Conference (AAMAS), Singapore
  - Theory and Practice of Formal Methods, Frank de Boer's 60th birthday, Eindhoven (the Netherlands)
  - 17th Workshop "dagli Oggetti agli Agenti", Catania (Italy)
  - 1st VORTEX Workshop on Runtime Verification (ECOOP), Roma
  - 15th International Conference of the Italian Association for Artificial Intelligence, Genova (Italy)
- 2015
  - Convegno Italiano di Logica Computazionale (CILC 2015), Genova (Italy)
  - Principles and Practice of Multi-Agent Systems (PRIMA 2015), Bertinoro (Italy)
  - The Sixth International Symposium on Games, Automata, Logics and Formal Verification (GANDALF 2015), Genova (Italy)

RESEARCH

UNIVERSITY OF GENOA | SOFTWARE ENGINEERING & PROGRAMMING LANGUAGES RESEARCH GROUP

November 2015 - Present | Genoa, Italy
PhD Student.

References

[1] F. Aielli, D. Ancona, P. Caianiello, S. Costantini, G. D. Gasperis, A. D. Marco, A. Ferrando, and V. Mascardi. FRIENDLY & KIND with your health: Human-friendly knowledge-intensive dynamic systems for the e-health domain. In *Highlights of Practical Applications of Scalable Multi-Agent Systems. The PAAMS Collection - International Workshops of PAAMS 2016, Sevilla, Spain, June 1-3, 2016. Proceedings*, pages 15–26, 2016.

[2] D. Ancona, D. Briola, A. Ferrando, and V. Mascardi. Global protocols as first class entities for self-adaptive agents. In *Proceedings of the 2015 International Conference on Autonomous Agents and Multiagent Systems, AAMAS 2015*, pages 1019–1029, 2015.

[3] D. Ancona, D. Briola, A. Ferrando, and V. Mascardi. Mas-drive: a practical approach to decentralized runtime verification of agent interaction protocols. In *Proceedings of the 17th Workshop "From Objects to Agents" co-located with 18th European Agent Systems Summer School (EASSS 2016), Catania, Italy, July 29-30, 2016.*, pages 35–43, 2016.

[4] D. Ancona, D. Briola, and V. Mascardi. Protocols with exceptions, timeouts, and handlers: A uniform framework for monitoring fail-uncontrolled and ambient intelligence systems. In *Proceedings of the 16th Workshop "From Objects to Agents", Naples, Italy, June 17-19, 2015.*, pages 65–75, 2015.

[5] D. Ancona, A. Ferrando, and V. Mascardi. Comparing trace expressions and linear temporal logic for runtime verification. In *Theory and Practice of Formal Methods - Essays Dedicated to Frank de Boer on the Occasion of His 60th Birthday*, pages 47–64, 2016.

[6] D. Ancona, A. Ferrando, and V. Mascardi. Parametric runtime verification of multiagent systems. In *Proceedings of the 16th Conference on Autonomous Agents and MultiAgent Systems, AAMAS 2017, São Paulo, Brazil, May 8-12, 2017*, pages 1457–1459, 2017.

[7] S. Beux, D. Briola, A. Corradi, G. Delzanno, A. Ferrando, F. Frassetto, G. Guerrini, V. Mascardi, M. Oreggia, F. Pozzi, A. Solimando, and A. Tacchella. Computational thinking for beginners: A successful experience using prolog. In *Proceedings of the 30th Italian Conference on Computational Logic, Genova, Italy, July 1-3, 2015.*, pages 31–45, 2015.

[8] A. Bruzone, M. Massei, S. Poggi, C. Bartolucci, and A. Ferrando. Intelligent agents for human behavior modeling as support to operations. In M. S. Obaidat, S. Koziel, J. Kacprzyk, L. Leifsson, and T. Ören, editors, *Simulation and Modeling Methodologies, Technologies and Applications*, volume 319 of *Advances in Intelligent Systems and Computing*, pages 119–132. Springer International Publishing, 2015.

[9] A. G. Bruzzone, L. Dato, and A. Ferrando. Simulation exploration experience: Providing effective surveillance and defense for a moon base against threats from outer space. In *18th IEEE/ACM International Symposium on Distributed Simulation and Real Time Applications, DS-RT 2014, Toulouse, France, October 1-3, 2014*, pages 121–126, 2014.

[10] A. G. Bruzzone, F. Madeo, M. Dallorto, D. Poggi, and A. Ferrando. Different modeling and simulation approaches applied to industrial process plants. In *Proceedings of the Emerging M&S Applications in Industry & Academia / Modeling and Humanities Symposium, part of the 2013 Spring Simulation Multiconference, SpringSim '13, San Diego, CA, USA, April 7-10, 2013*, page 6, 2013.

[11] A. Ferrando. Parametric protocol-driven agents and their integration in JADE. In *Proceedings of the thirtieth Convegno Italiano di Logica Computazionale, CILC 2015*, 2015.

[12] A. Ferrando. Automatic partitions extraction to distribute the runtime verification of a global specification. In *Proceedings of the Doctoral Consortium of AI*IA 2016 co-located with the 15th International Conference of the Italian Association for Artificial Intelligence (AI*IA 2016), Genova, Italy, November 29, 2016.*, pages 40–45, 2016.

[13] A. Ferrando, D. Ancona, and V. Mascardi. Monitoring patients with hypoglycemia using self-adaptive protocol-driven agents: A case study. In *Engineering Multi-Agent Systems - 4th International Workshop, EMAS 2016, Singapore, Singapore, May 9-10, 2016, Revised, Selected, and Invited Papers*, pages 39–58, 2016.

[14] A. Ferrando, D. Ancona, and V. Mascardi. Decentralizing MAS monitoring with decamon. In *Proceedings of the 16th Conference on Autonomous Agents and MultiAgent Systems, AAMAS 2017, São Paulo, Brazil, May 8-12, 2017*, pages 239–248, 2017.

[15] A. Ferrando, S. Beux, V. Mascardi, and P. Rosso. Identification of disease symptoms in multilingual sentences: An ontology-driven approach. In *Proceedings of the First Workshop on Modeling, Learning and Mining for Cross/Multilinguality (MultiLingMine 2016) co-located with the 38th European Conference on Information Retrieval (ECIR 2016), Padova, Italy, March 20, 2016.*, pages 6–15, 2016.

[16] M. Massei, S. Poggi, M. Agresta, and A. Ferrando. Development planning based on interoperable agent driven simulation. *Journal of Computational Science*, 5(3):395 – 407, 2014.

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