

Davide Calvaresi, Ph.D.

Curriculum Vitae, Sep 2021

Sierre

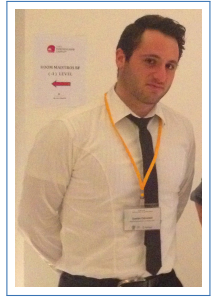
Switzerland

+41 272078933

+39 3289303947

davide.calvaresi@hevs.ch

https://dr-davide.github.io/



Work

- Since Mar'20 **Senior Researcher**, *University of Applied Science Western Switzerland (HES-SO)*, Sierre, CH – (full-time)
Research Areas: Real-Time Multi-Agent Systems (RT-MAS), Explainable AI, Blockchain & MAS
Responsibilities: Writing & leading projects/papers, bridging univ-industry, supervising postdocs & students.
- Apr'18–Feb'20 **Postdoctoral Research**, *University of Applied Science Western Switzerland (HES-SO)*, Sierre, CH – (full-time)
Research Areas: Real-Time Multi-Agent Systems (RT-MAS), Explainable AI, Blockchain & MAS
Responsibilities: Actualizing project's tasks, scientific writing & outreach, master project and thesis supervision.
- Apr'17–Apr'18 **Research Assistant**, *University of Applied Science Western Switzerland (HES-SO)*, (AISLAB), Sierre, CH - (full-time)
Research Areas: Real-Time Multi-Agent Systems, Blockchain & MAS, Assistive and Telerehabilitation Technologies
Responsibilities: Design & development in projects, scientific writing & teaching, master project & thesis supervision.
- Nov'14–Mar'18 **Research Assistant**, *RetisLab, Scuola Superiore Sant'Anna*, Pisa, Italy – (full time)
Research Areas: Real-Time Multi-Agent Systems, wearable sensors, telerehabilitation, digital innovation
Responsibilities: Design & development in projects, scientific writing & outreach, master project & thesis supervision.
- Since 2015 **Co Founder**, *Wriggle Solutions s.r.l.s.*, Innovative Startup, Pisa, Italy – (from full- to part-time).
- Since 2014 **Co Founder & Scientific CM**, *"Polo Tecnico - Professionale per Domotica Assistenziale"*, Italy – (part-time).
- Mar-Apr 2013 **Freelance Engineer**, *Design and Development of a web based product*, CarbonMill s.n.c., Jesi, Italy – (full-time).
- Jan-Feb 2012 **Freelance Engineer**, *Personalization of a Customer Relationship Management*, STEP s.a.s, Jesi, Italy – (full-time).

Education

- 2014 - 2018 **Ph.D.**, in *Emerging Digital Technologies - Embedded Systems*, *Scuola Superiore Sant'Anna*, Pisa, Italy.,
Research Areas: RT-MAS, Assistive and Telerehabilitation Technologies
Responsibilities: Thoretical formulation & modeling, scientific writing, outreach & teaching (course projects)
Thesis: Real-Time Multi-Agent Systems: challenges, model, and performance analysis
Supervisor: Prof. Giorgio Buttazzo.
- 2005 – 2014 **M.Sc.** and **B.Sc.** in Computer and Automation Engineering,
Università Politecnica delle Marche, Ancona, Italy, *Italian Marks*: (B.Sc: **94/110**; M.Sc: **105/110**).
- (2014) Thesis M.Sc.: *Requirement Engineering on a Wide Domain: i* Modeling of the Ambient Assisted Living*,
Supervisors: Prof(s). A. F. Dragoni, Eric Yu, & Arnon Sturm at: Computer Science, University of Toronto, Canada.
- (2011) Thesis B.Sc.: *Study of an UPnP standard extension for the semantic description of heterogeneous devices in home automation environment*,
Supervisors: Prof. Francesco Piazza & Dr. Michele Nucci, at: Università Politecnica delle Marche, Ancona, Italy

Written Projects (funded)

- 2021 **Flagship**, *Sub-Project 3 in Project n. XXX ~ XXXK €*, (2021).
Focus: Description here XXX
- 2021 **Interreg IT-CH**, *Project CIME n. 2554351 ~ 500K €*, (2021).
Focus: Specialized training for mountain medicine via distributed system and e-coaches
- 2020 **CHIST-ERA**, *Project EXPECTATION n. CHIST-ERA-19-XAI-005 - ~ 900K CHF*.
Focus: Intra- and inter-agent explainability leveraging neuro-symbolic integration and multi-modal XAI & ethics
- 2019 **Hasler Foundation**, *Project SEAMLESS n. 97225 - 50K CHF*.
Focus: Time predictability in distributed intelligent systems
- 2018 **SME Instrument phase 1**, *SMARTTyre prop n. 807399 - 50K €*.
Focus: Real-Time tyre monitoring system

Abilitations - Grants - Patents - Awards

- Abilitations: **09/H1**, *ASN 2018/2020, qtr n. 6*, validity (14/04/2021 – 14/04/2030).
- Grants: **University of Évry**: 1st Agreement Technologies Winter School, Dec 2017.
University of Gdańsk: 19th European Agent Systems Summer School, Aug 2017.

COST Action: AAPELE (IC1303), Oct - Dec 2016.

Patents: **"System for Monitoring the Condition of Tyres"**, *International Patent PCT/IB2016/057298*, (2016).
"Sistema per il Monitoraggio dello Stato di Pneumatici", *Patent n: 102015000079497*, (2015).

Awards: **Best-Paper Award**, *Paper: (link)*, *Venue: EXTRAAMAS @ AAMAS*, May 2020.

Best-Paper Award, *Paper: (link)*, *Venue: A2HC @ AAMAS*, May 2017.

GSVC2016, SMARTTyre Winner of "Best social and environmental ICT Idea Award".

EGO Ericsson 2015, SMARTTyre Winner of "Change makers for a connected society".

START CUP Toscana 2015, SMARTTyre Winner of "Best business and high-tech ideas".

Coordination of Research Projects

2020 **EXPECTATION**, *Project Coordinator Delegate, WP(s) Leader, and System Designer*, HES-SO, Switzerland,
Focus: Neuro-Symbolic integration for multi-modal XAI via argumentation in intelligent systems & ethics.

2019 **SEAMLESS**, *Principal Investigator*, HES-SO, Switzerland,
Focus: Design & implementation of a simulator implementing the Real-Time MAS theoretical model.

2019 **SCoDES**, *WP(s) Coordinator*, HES-SO, Switzerland,
Focus: Design & implementation of a ledger-based distributed system to manage patients' consent in clinical trials.

Research Project Actualized

2015 **Silence MultiMedia**, *WP management, design and development*, TeCIP - Scuola Superiore Sant'Anna, Italy,
Focus: Distributed embedded system for real-time audio streaming with embedded and web management interfaces..

2013 **R&C - Autonomous Robot Competition**, *Team Leader and Developer*, D.I.I., Univpm, Italy, "presentation link"
Focus: Intelligent robots competition. Expertise: Real-Time scheduling, Artificial Intelligence, Jade, OpenCV.

2012 **Web Solver for Capacited Vehicle Routing Problem**, *Developer*, D.I.I., Univpm, Italy.
Focus: Dynamic web Capacity Vehicle Routing Problem solver. Expertise: Operational Research, AMPL, Reg Exp.

2012 **Fault Detection in a wind farm**, *Developer*, D.I.I., Univpm, Italy.
Fault Predictions and Diagnosis in wind turbines. Expertise: Matlab, Simulink, Neural Network.

2011 **Hive - Enterprise applications integration**, *Team Leader and Developer*, D.I.I., Univpm, Italy.
Focus: Integration of (Kettle, SugarCRM, AlfrescoECM, OpenBravoERP) at web service and database level

Conferences and Reviewing Involvements

Pr. chair **EXTRAAMAS 2019-2021, BCT4MAS-2020,2019,2018 RTcMAS2018.**

Pr. committee **AAMAS19-21, HIMAS20-21, WOA21, AI&IoT19 AAMAS18, AIH18, A2HC17,**

Guest Editor **SI: "Autonomous Agents and Multi-Agent Systems Applied in Healthcare", Sensors - MDPI (2020) .**
SI: "Blockchain Technologies for Multi-Agent Systems", Information - MDPI (2019) .

Editor **Post-Proceedings EXTRAAMAS (Springer, 2019 - 2021); BCT4MAS (Springer, 2019); Proceedings of RTcMAS (CEUR, 2018); Proceedings BCT4MAS (IEEE, 2018).**

Reviewer **Journals, Information, Sensors, ACM Transactions on Cyber-Physical Systems, IEEE Transactions on Industrial Informatics, IEEE Access, Artificial Intelligence Review, JAAMAS, ...**

Conferences, AI&IoT 2019, BCT4ROS 2019, AIH 2018, ICAART 2017, EPIA 2017, A2HC 2017, SAC 2016, RTSS-CPS 2016, ...

Advisoring [A] and Supervising [S] Activities

Ph.D. **[S]: Neuro-Symbolic integration & XAI in MAS**, *Victor H. Contreras*, UNIBO & HES-SO, Since 2021.

[A]: XAI in MAS, *Giovanni Ciatto*, University of Bologna, Since 2018.

[A]: RT-BDI MAS, *Francesco Alzetta*, University of Trento, 2018-20.

MSc Thesis **[S]: Nutritional e-coaching system**, *Eggenschwiler Stefan*, HES-SO, 2021.

[S]: Virtual Reality Simulator for Single-to-Multi Hazard user modeling, *Emanuele Gagliardi*, UNIVPM, 2021.

[S]: Persuasion through Computational Argumentation in eHealth CBT, *Aubert Sébastien*, HES-SO, 2021.

[S]: Analysis of video-based kinematic data for balance assessment, *Samuel Briand*, HES-SO, 2021.

[S]: An SLR on Computational Persuasion Technologies for eHealth, *Di Vincenzo Andrea*, HES-SO, 2021.

[S]: Formalization of a self-orchestrating distributed model for tourism, *Teclé Samrawi*, HES-SO, 2021.

[S]: Personalization of points of interest recommendations, *Okoro Esteem*, HES-SO, 2021.

[S]: Chatbots in eTourism: SLR, industrial focus group, & proof-of-concept, *Ibrahim Ahmed*, HES-SO, 2020.

[S]: A Blockchain-based MAS for Business Entities Reputation, *Valerio Mattioli*, UNIVPM, 2018.

[S]: Simulation and analysis of negotiation in GP and RT-MAS, *Giuseppe Albanese*, UNIVPM, 2018.

[S]: Agent-based smart contracts for dynamic reputation management, *Diego Retaggi*, UNIVPM, 2018.

[S]: Design and development of a sonification systems for swimmers, *Federico Civerchia*, UNIVPM, 2015.

BSc Thesis **[S]: DIY: interconnected smart t-shirt for mountain sports**, *Jama Ali Abdullali*, HES-SO, 20217.

[S]: RT-Monitoring System for Rehabilitation with inertial sensors, *Andrea Bachechi*, SSSUP, 2018.

[S]: Traceability and Trust in Medicines supply, *Luca Petrovic*, UNIVPM, 2018.

[S]: Monitoring de la santé via une montre connectée, *Christophe Crettenand*, HES-SO, 2015.

Lectures [L] and Seminars [S]

Nov 2019 [S]: Real-Time Multi-Agent Systems, *University of Bologna, Cesena, Italy*.

May 2019 [S]: Real-Time Multi-Agent Systems, and XAI in MAS, *University of Toronto, Canada*.

2014 – 2016 [L]: Leap Motion and Real Time, *TeCIP - Scuola Superiore Sant'Anna, Italy*.

Fall 2015 [S]: Distributed Data Service (DDS), *TeCIP, Scuola Superiore Sant'Anna, Italy*.

Fall 2014 [S]: Introduction to Agent Oriented Paradigm, *TeCIP, Scuola Superiore Sant'Anna, Italy*.

Fall 2014 [S]: Requirement Engineering, *Univpm, Ancona, Italy*.

Fall 2014 [S]: Virtual Caregiver, a novel approach, *Istituto d'Istruzione Superiore E. Fermi, Italy*.

Research Visits

Oct – Mar'17 Internship, *University of Applied Science Western Switzerland, eHealth Division, Sierre, Switzerland*.

Development of a real-time negotiation protocol for multi-agent systems applied to wearable devices for telerehabilitation.

Aug – Feb'14 Internship, *University of Toronto, Toronto, Canada, Master Thesis*.

Modelization of Ambient Assisted Living Domain using a Goal Oriented Requirement Engineering & *i** modeling lang

Bibliometric data

#	Google Scholar	Scopus	Updated - 3/12/2021
o Total Citations	1074	658	
o h-index	16	12	
o i10-index	22	–	

Languages

Italian: - Native, **English:** - C2, **French:** - B2.

Social Engagements [SE] and Hobbies [H]

[SE]: • PhD Student Representative in Academic Council, ('14 – '16); • Blood Donor; • Volunteer - First Aid ('03 - '16)

[H]: • Cooking • Chess • Archery • Hiking • Biking, and many others • Team/Solo-Sports • Board Games

References

Person	Role	Institute	contact
o Prof. Michael Schumacher	Head of Aislab & IIG	HES-SO	michael.schumacher@hevs.ch
o Prof. Andrea Omicini	Partner in EU project	UNIBO	andrea.omicini@unibo.it
o Prof. Giorgio Buttazzo	PhD Supervisor	Scuola Sup. Sant'Anna	g.buttazzo@sssup.it

Publications

All the papers tagged with (✓) have been personally presented

- 2022 Mualla Y., Tchappi I., Kampik T., Najjar A., **Calvaresi D.**, Abbas-Turki A., Galland S., & Nicolle S. “ *The Quest of Parsimonious XAI: a Human-Agent Architecture for Explanation Formulation* ”. in Journal of Artificial Intelligence, doi: 10.1016/j.artint.2021.103573, Aug.
- 2021 Manzo G., **Calvaresi D.**, Jimenez-del-Toro O., Calbimonte J-P & Schumacher M. “ *The Quest of Parsimonious XAI: a Human-Agent Architecture for Explanation Formulation* ”. in Journal of Artificial Intelligence, doi: 10.1016/j.artint.2021.103573, Aug.
- 2021 Calbimonte J.P., **Calvaresi D.**, & Schumacher M. “ *Towards Collaborative Creativity in Persuasive Multi-agent Systems*”, in Advances in Practical Applications of Agents, Multi-Agent Systems, and Social Good. The PAAMS Collection, Salamanca, Spain, Oct 6-8.
- 2021 **Calvaresi D.**, Ibrahim A., Calbimonte J.P., Fragnière E., Schegg R., & Schumacher M. “ *Leveraging inter-tourists interactions via chatbots to bridge academia, tourism industries and future societies* ”. in Journal of Tourism Futures, doi: 10.1108/JTF-01-2021-0009, Aug.
- 2021 **Calvaresi D.**, Najjar A., Winikoff M., & Framling K. “ *Explainable, and Transparent Artificial Intelligence and Multi-Agent Systems*”, Post-Proceeding of EXTRAAMAS 2021 (@AAMAS21), Selected and Revised Papers, London, UK, May 7-8.
- 2021 **Calvaresi D.**, Ciatto G., Najjar A., Aydogan R., Van der Torre L., Omicini A., & Schumacher M. “ *Expectation: Personalized Explainable Artificial Intelligence for Decentralized Agents with Heterogeneous Knowledge*”, Post-Proceeding of EXTRAAMAS 2021, London, UK, May 7. (✓)
- 2021 Ciatto G., Najjar A., Calbimonte J.P., & **Calvaresi D.** “ *Towards Explainable Visionary Agents: License to Dare and Imagine*”, Post-Proceeding of EXTRAAMAS 2021, London, UK, May 7.
- 2021 Fanda L., Dicente Cid Y., Matusz P., & **Calvaresi D.** “ *To Pay or Not to Pay Attention: Classifying and Interpreting Visual Selective Attention Frequency Features*”, Post-Proceeding of EXTRAAMAS 2021, London, UK, May 7.
- 2021 Najjar A., Mualla Y., Singh K., Picard G., **Calvaresi D.**, Malhi A., Galland S. & Främling K. “ *One-to-Many Negotiation QoE Management Mechanism for End-user Satisfaction* ”. in IEEE Access, doi: 10.1109/ACCESS.2021.3071646, Apr.
- 2021 **Calvaresi D.**, Dicente Cid Y., Marinoni M., Dragoni A.F., Najjar A., & Schumacher M. “ *Real-time multi-agent systems: rationality, formal model, and empirical results*”. Autonomous Agents and Multi-Agent Systems, 35(1), 1-37.
- 2021 Ramseye R., **Calvaresi D.**, Nanchen B., Schegg R., Schumacher M., & Fragnière, E. “ *Orchestrating tourism actors’ network via the “n-1 n+1 touchpoints” algorithm: A B2B chatbot to improve customers journeys*”. Proceedings of the 19th International Conference e-Society, Feb 5. (✓)
- 2021 **Calvaresi D.**, Calbimonte J.P. , Siboni E., Eggenschwiler S., Manzo G., Hilfiker R., & Schumacher M. “ *ERE-BOTS: Privacy-Compliant Agent-Based Platform for Multi-Scenario Personalized Health-Assistant Chatbots*”. In: Electronics MDPI, Jan.
- 2021 **Calvaresi D.**, Ibrahim A., Calbimonte J.P., Schegg R., Fragniere E., & Schumacher M., “ *The Evolution of Chatbots in Tourism: a Systematic Literature Review*”, Information and Communication Technologies in Tourism, ENTER Collection, eConference, January 19. (✓)
- 2021 Calbimonte J.P., Martin S., **Calvaresi D.**, & Cotting A. “ *A Platform for Difficulty Assessment and Recommendation of Hiking Trails*”, Information & Communication Technologies in Tourism, ENTER Collection, eConf, Jan 19. (✓)
- 2020 **Calvaresi D.**, Schumacher M., & Calbimonte J.P. “ *Agent-based Modeling for Ontology-driven Analysis of Patient Trajectories*”. Journal of Medical Systems, 44.9: 1-11.
- 2020 **Calvaresi D.**, and Calbimonte J.P. “ *Real-Time Compliant Stream Processing Agents for Physical Rehabilitation* ”. MDPI Sensors, 20(3), 746.
- 2020 **Calvaresi D.**, Albanese G., Calbimonte J.P., Schumacher M., “ *SEAMLESS: Simulation and Analysis for Multi-Agent System in Time-Constrained Environments*”, Highlights in Practical Applications of Agents, Multi-Agent Systems, and Trustworthiness, The PAAMS Collection, Aquila, Italy, October 7. (✓)
- 2020 Alzetta F., Giorgini P. Marinoni M., & **Calvaresi D.** “ *RT-BDI: A Real-Time BDI model*”, Highlights in Practical Applications of Agents, Multi-Agent Systems, & Trustworthiness, PAAMS Collection, Aquila, Italy, Oct 7. (✓)
- 2020 Ciatto G., **Calvaresi D.**, Schumacher M., and Omicini A. “ *An Abstract Framework for Agent-Based Explanations in AI*”, Proceeding of AAMAS 2020, Auckland, New Zealand, May 13. (✓)
- 2020 **Calvaresi D.** Schumacher M., and Calbimonte J.P. “ *Personal Data Privacy Semantics in Multi-Agent Systems Interactions*”, Highlights in Practical Applications of Agents, Multi-Agent Systems, and Trustworthiness, The PAAMS Collection, Aquila, Italy, October 7. (✓)
- 2020 **Calvaresi D.** Piguet J.G., Calbimonte J.P., Kampik T., Najjar A., Guilleme G., and Schumacher M. “ *Ethical Concerns and Opportunities in Binding Intelligent Systems and Blockchain Technology*”, Highlights in Practical Applications of Agents, Multi-Agent Systems, and Trustworthiness, PAAMS Collection, Aquila, Italy, Oct 7. (✓)

- 2020 **Calvaresi D.**, Najjar A., Winikoff M., & Framling K. "*Explainable, Transparent Autonomous Agents and Multi-Agent Systems*", Post-Proceeding of EXTRAAMAS 2020 (@AAMAS20), Selected and Revised Papers, Auckland, NZ, May 9.
- 2020 Alzetta F., Giorgini P., Najjar A., Schumacher M., & **Calvaresi D.** "*In-time Explainability in Multi-Agent Systems: Challenges, Opportunities, and Roadmap*", Post-Proceeding of EXTRAAMAS 2020, Auckland, NZ, May 9. (✓)
- 2020 Ciatto G., Omicini A., Schumacher M., and **Calvaresi D.** "*Agent-Based Explanations in AI: Towards an Abstract Framework*", Post-Proceeding of EXTRAAMAS 2020, Auckland, New Zealand, May 9. (✓)
- 2020 Calbimonte J.P., Martin S., **Calvaresi D.**, Zappelaz N., & Cotting A. "*Semantic Data Models for Assessing Hiking Trail Difficulties*", Information and Communication Technologies in Tourism, Surrey, UK, Jan 8. (✓)
- 2020 Albanese G., Calbimonte J.P., Schumacher, M., & **Calvaresi D.** "*Dynamic Consent Management for Clinical Trials via Private Blockchain Technology*". Journal of Ambient Intelligence and Humanized Computing.
- 2019 Ciatto, G., Calegari, R., Omicini, A., & **Calvaresi D.** "*Towards XMAS: eXplainability through Multi-Agent Systems*", in book AI&IoT Artificial Intelligence and Internet of Things 2019, Rende, Italy, Nov.
- 2019 **Calvaresi D.**, Calbimonte J.P., Dubovitskaya, A., Mattioli, V., Piguet, J. G., & Schumacher, M. "*The Good, the Bad, and the Ethical Implications of Bridging Blockchain and Multi-Agent Systems*". MDPI Information, 10(12), 363.
- 2019 **Calvaresi D.**, Calbimonte J.P., Dubosson F., Najjar A., & Schumacher M. "*Social Network Chatbots for Smoking Cessation: Agent and Multi-Agent Frameworks*", Proc. of WebIntelligence, Thessaloniki, Greece, Oct 14. (✓)
- 2019 De La Prieta, F., González-Briones, A., Pawleski, P., **Calvaresi D.**, Del Val, E., Lopes, F., ... & Sánchez-Iborra R. "*Highlights of Practical Applications of Survivable Agents and Multi-Agent Systems*", Springer.
- 2019 **Calvaresi D.**, Amro Najjar, Michael Schumacher, & Kary Främling. "*Explainable, Transparent Autonomous Agents and Multi-Agent Systems*", Post-proceedings of EXTRAAMAS2019, Springer.
- 2019 **Calvaresi D.**, Marinoni M., Dragoni A.F., Hilfiker R., and Schumacher M. "*Real-Time Multi-Agent Systems for Telerehabilitation Scenarios*", Journal of Artificial Intelligence in Medicine.
- 2019 **Calvaresi D.**, Najjar A., Schumacher M., & Framling K. "*Explainable, Transparent Autonomous Agents and Multi-Agent Systems*", Post-Proceeding of EXTRAAMAS 2019 (@AAMAS19), Selected and Revised Papers Montreal, Canada, May 13-14.
- 2019 Falcionelli N., Sernani P., Brugués A., Mekuria DM., **Calvaresi D.**, Schumacher M., Dragoni AF., Bromuri S. "*Indexing the Event Calculus: Towards practical human-readable Personal Health Systems*", Journal of Artificial Intelligence in Medicine.
- 2019 **Calvaresi D.**, Mualla Y., Najjar A., Galland S. and Schumacher M. "*Explainable Multi-Agent Systems through Blockchain Technology*", Post-Proceeding of EXTRAAMAS 2019 (@AAMAS19), Montreal, Canada, May 13. (✓)
- 2019 **Calvaresi D.**, A Startup Assessment Approach Based on Multi-Agent and Blockchain Technologies. Highlights of Practical Applications of Survivable Agents and Multi-Agent Systems. The PAAMS , Avila, Spain, June 27. (✓)
- 2019 Calbimonte JP., **Calvaresi D.**, Dubosson F., and Schumacher M. "*Towards Profile and Domain Modelling in Agent-based Applications for Behavior Change*", Proceeding of PAAMS 2019, Avila, Spain, June 27. (✓)
- 2019 Tommasini R., **Calvaresi D.** and Calbimonte JP. "*Stream Reasoning Agents*", Proceeding of AAMAS 2019, Montreal, Canada, May 17. (✓)
- 2019 Anjomshoe S., Najjar A., **Calvaresi D.** and Främling K. "*Explainable agents and robots: Results from a systematic literature review*", Proceeding of AAMAS 2019, Montreal, Canada, May 16. (✓)
- 2019 **Calvaresi D.**, Leis M., Dubovitskaya A., Schegg R., & Schumacher M. "*Trust in Tourism via Blockchain Technology: Results from a Systematic Review*", in Information and Communication Technologies in Tourism 2019, Nicosia, Cyprus, Feb 4. (✓)
- 2018 **Calvaresi D.**, Aldo Franco Dragoni, & Giorgio C. Buttazzo. "*Real-Time compliant Multi-Agent Systems*", Proceedings of the 1st International Workshop RTcMAS, CEUR-WS.org.
- 2018 Dragoni A.F., Sernani P., **Calvaresi D.** "*When Rationality Entered Time and Became a Rational Agent in a Cyber Society*", Proceeding of International Conference on Recent Trends and Applications in Computer Science and Information Technology, Tirana, Albania, Dec 23.
- 2018 **Calvaresi D.**, Mattioli V., Dubovitskaya A., Dragoni A.F., & Schumacher M. "*Reputation Management in Multi-Agent Systems using Permissioned Blockchain Technology*", Proc. of WebIntelligence, Santiago, Chile, Dec 4. (✓)
- 2018 Timotheus Kampik, Amro Najjar, & **Calvaresi D.** "*MAS-aided Approval for Bypassing Decentralized Processes: an Architecture*", Proceeding of WebIntelligence 2018, Santiago, Chile, Dec 4. (✓)
- 2018 **Calvaresi D.**, Dubovitskaya A., Retraggi D., Dragoni A.F., & Schumacher M. "*Trusted Registration, Negotiation, and Service Evaluation in Multi-Agent Systems throughout the Blockchain Technology*", Proceeding of WebIntelligence 2018, Santiago, Chile, Dec 4. (✓)

- 2018 Dubovitskaya A., **Calvaresi D.**, & Schumacher M. "*Essais Clinique Multicentriques: Transparence et Contrôle de la Qualité Grâce à la Blockchain et aux Systèmes Multi-Agents*", Journal: Swiss Medical Informatics, Bern, CH. (✓)
- 2018 **Calvaresi D.**, Albanese G., Marinoni M., Dubosson F., Sernani P., Dragoni A.F., & Schumacher M. "*Timing Reliability for Local Schedulers in Multi-Agent Systems*", Proceeding of 1st International Workshop on Real-Time compliant Multi-Agent Systems, Stockholm, Sweden, Jul 15. (✓)
- 2018 **Calvaresi D.**, Albanese G., Dubosson F., Marinoni M., & Schumacher M. "*A Task-sets Generator for Supporting the Analysis of Multi-Agent Systems under General Purpose and Real-Time Conditions*", Proceeding of 1st International Workshop on Real-Time compliant Multi-Agent Systems, Stockholm, Sweden, July 15. (✓)
- 2018 **Calvaresi D.**, Dubovitskaya A., Calbimonte J.P., Taveter K., & Schumacher M. "*Multi-Agent Systems and Blockchain: Results from a Systematic Literature Review*", Proceeding of 16th International Conference on Practical Applications of Agents and Multi-Agent Systems, Toledo, Spain, Jun 20-22. (✓)
- 2018 Albanese G., **Calvaresi D.**, Sernani P., Dubosson F., Dragoni, A.F. & Schumacher M. "*MAXIM-GPRT: A Simulator of local Schedulers, Negotiations, and Communication for Multi-Agent Systems in General-Purpose and Real-Time Scenarios*", Proceeding of 16th International Conference on Practical Applications of Agents and Multi-Agent Systems, Toledo, Spain, Jun 20-22. (✓)
- 2018 **Calvaresi D.**, Appoggetti K., Lustrissimini L., Marinoni M., Sernani P., Dragoni A.F., & Schumacher M. "*Multi-Agent Systems' Negotiation Protocols for Cyber-Physical Systems: Results from a Systematic Literature Review*", Proceeding of 10th International Conference on Agents and Artificial Intelligence, Madeira-PT, Jan 16-18. (✓)
- 2017 **Calvaresi D.**, Marinoni M., Lustrissimini L., Appoggetti K., Sernani P., Dragoni A.F., Schumacher M., & Buttazzo G. "*Local Scheduling in Multi-Agent Systems: getting ready for safety-critical scenarios*", Proceeding of 15th European Conference on Multi-Agent Systems, Evrì, France, Dec 14-15. (✓)
- 2017 Calbimonte J.P., **Calvaresi D.**, & Schumacher M. "*Multi-Agent Interactions on the Web through Linked Data Notifications*", Proceeding of 15th European Conference on Multi-Agent Systems, Evrì, France, Dec 14-15. (✓)
- 2017 Buonocunto P., Giantomassi A., Marinoni M., **Calvaresi D.**, & Buttazzo G. "*A Limb Tracking Platform for Tele-Rehabilitation*". ACM Transactions on Cyber-Physical Systems (TCPS)
- 2017 **Calvaresi D.**, Marinoni M., Sturm A., Schumacher M., & Buttazzo G. "*The Challenge of Real-Time Multi-Agent Systems for Enabling IoT and CPS*", Proceeding of IEEE/WIC/ACM International Conference on Web Intelligence (WI 2017), Leipzig, Germany, Aug 23-26. (✓)
- 2017 **Calvaresi D.**, Schumacher M., Marinoni M., Hilfiker R., Dragoni A.F., & Buttazzo G. "*Agent-based systems for telerehabilitation: strengths, limitations and future challenges*", Post-Proceeding of the 10th Workshop on Agents Applied in Health Care @ AAMAS, S ao Paulo, Brazil, May 8-12. (✓)
- 2017 Falcionelli N., Sernani P., Bromuri S., Mekuria D.N., **Calvaresi D.**, Schumacher M., Dragoni A.F., & Brugues A. "*An Event Calculus agent minds applied to diabetes monitoring*", Post-Proceeding of the 10th Workshop on Agents Applied in Health Care @ AAMAS, S ao Paulo, Brazil, May 8-12. (✓)
- 2016 **Calvaresi D.**, Vincentini A., Di Guardo A., Cesarini D., Sernani P., & Dragoni A.F. "*Exploiting a touchless interaction to drive a wireless mobile robot powered by a real-time operating system*", Proceeding of the 2nd International Conference Recent Trends and Applications in Computer Science and Information Technology, Tirana, Albania, Nov 18-19.
- 2016 Montanaro L., Sernani P., **Calvaresi D.**, & Dragoni A.F. "*A touchless human-machine interface for the control of an elevator*", Proceeding of the 2nd International Conference Recent Trends and Applications in Computer Science and Information Technology, Tirana, Albania, November 18-19.
- 2016 Cesarini D., **Calvaresi D.**, Farnesi C., Taddei D., Frediani S., Ungerechts B.E., & Hermann T.. "*MEDIATION: an eMbEddeD system for auditory feedback of hand-water InterAction while swimming*", Proceeding of the 11th conference of the International Sports Engineering Association (ISEA 2016), Delft, Netherlands, July 11-14.
- 2016 Sernani P., **Calvaresi D.**, Calvaresi P., Pierdicca M., Morbidelli E., Dragoni A. F., & Buttazzo G. "*Testing Intelligent Solutions for the Ambient Assisted Living in a Simulator*", Proceeding of the 9th International Conference on PErvasive Technologies Related to Assistive Environments (PETRA 2016), Corfu Island, Greece, June 29 - July 1.
- 2016 **Calvaresi D.**, Sernani P., Marinoni M., Claudi A., Balsini A., Dragoni A. F., & Buttazzo G. "*A Framework based on Real-Time OS and Multi-Agents for intelligent autonomous robot competitions*", Proceeding of the 11th IEEE International Symposium on Industrial Embedded Systems (SIES 2016), Krakow, Poland, May 23-26. (✓)
- 2016 **Calvaresi D.**, Cesarini D., Sernani P., Marinoni M., Dragoni A. F., & Sturm A.. "*Exploring the ambient assisted living domain: a systematic review*". Journal of Ambient Intelligence and Humanized Computing, 1-19.
- 2015 **Calvaresi D.**, Cesarini D., Marinoni M., Buonocunto P., Bandinelli S., and Buttazzo G., "*Non-intrusive patient monitoring for supporting general practitioners in following diseases evolution*", Proceedings of the 3rd International Work-Conference on Bioinformatics and Biomedical Engineering 2015, Granada, Spain, April 15-17. (✓)
- 2015 Cesarini D., **Calvaresi D.**, Marinoni M., Buonocunto P., and Buttazzo G. "*Simplifying the use of motor tele-rehabilitation devices for their practical use in non-clinical environments*", Proceedings of the 3rd International Work-Conference on Bioinformatics and Biomedical Engineering 2015, Granada, Spain, April 15-17. (✓)

- 2014 Calvaresi, P., **Calvaresi, D.**, Sernani, P., Pierdicca, M., Morbidelli E., Accattoli, D., Dragoni, A.F.: *"A Virtual Caregiver for the AAL: Testing in a 3D Simulator"*. In: Workshop of the XIII AI*IA Symposium on Artificial Intelligence (AI*AAL.it 2014).
- 2014 Calvaresi, P., Dragoni, A.F., Pierdicca, M., **Calvaresi, D.**, Sernani, P.: *"3D Simulation for Ambient Assisted Living: Interaction through Mobile Application"*. In: 1st International Conference Recent Trends and Applications in Computer Science and Information Technology (RTA-CIST 2014).
- 2014 **Calvaresi, D.**, Sturm, A., Yu, E., Dragoni, A.F.: *"Exploring domain requirements and technology solutions: a goal modeling approach"*. In: Proceedings of the 7th International iStar Workshop (iStar 2014). (✓)
- 2014 **Calvaresi, D.**, Claudi, A., Dragoni, A.F., Yu, E., Accattoli, D., Sernani, P.: *"A Goal-Oriented Requirements Engineering Approach for the Ambient Assisted Living Domain"*. in Proceedings of the the 7th ACM International Conference on Pervasive Technologies Related to Assistive Environments (PETRA 2014). (✓)
- 2013 **Calvaresi D.**, Sturm A., and Yu E.: *"Reconciling System Design Options with Domain and Elicited Requirements - A Goal Modeling Approach"*. Poster Presentation in Consortium for Software Engineering Research, Fall 2013 Meeting, Markham, Ontario, CA, 2013. (✓)