

# Toni Mancini

## Curriculum Vitae

Sapienza University of Rome  
Department of Computer Science  
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CV last updated on: 26/05/2026

### Personal information

Nationality Italian.  
Spoken languages Italian (first language), English (fluent).

### Education

- 2005 **Ph.D. in Computer Engineering**, Sapienza University of Rome, Rome, Italy.
- 2001 **M.Sc. in Computer Engineering**, Sapienza University of Rome, Rome, Italy.  
Graduation mark: *summa cum laude*.

### Current position

- 2024– **Full Professor**, Sapienza University of Rome, Computer Science Department, Rome, Italy.
- 2011– **Lecturer**, Sapienza University of Rome, Computer Science Department, Rome, Italy.  
Courses: *Databases 2* and *Artificial Intelligence*, B.Sc. Programme in Computer Science; *Formal Methods in AI-Based Systems Engineering*, M.Sc. Programme in Computer Science.

### Past positions

- 2019–2024 **Associate Professor**, Sapienza University of Rome, Computer Science Department, Rome, Italy.
- 2009–2019 **Assistant Professor**, Sapienza University of Rome, Computer Science Department, Rome, Italy.
- 2004–2008 **Post-Doc**, Sapienza University of Rome, Department of Computer, Control, and Management Engineering, Rome, Italy.
- 2001–2004 **Ph.D. Student**, Sapienza University of Rome, Department of Computer, Control, and Management Engineering, Rome, Italy.  
Dissertation title: "Declarative constraint modelling and specification-level reasoning."  
(Supervisor: Prof. Marco Cadoli.)

### Research activity

Research areas Artificial Intelligence (AI), Formal verification, Knowledge representation, Automated reasoning, Computational logic, Software engineering, AI-based Systems Engineering, AI-based In Silico Clinical Trials.

### Publications

**Author of 90+ scientific publications**, on major international journals and proceedings of top conferences in the above research topics. The main publications are listed from [page 8](#).

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## Research projects

Continuously involved in research projects funded by national and International agencies. The main projects are listed below.

- 2026– **Endotrain EC MSCA Doctoral Training Network**, *European Commission, Marie Skłodowska-Curie Actions (MSCA)*.
- Title* Digital Endocrinology Training Network to combat adrenal diseases  
*Role* Principal investigator of the Sapienza University of Rome unit  
*Call* HORIZON-MSCA-2024-DN-01
- Project Type* Doctoral Network under Marie Skłodowska-Curie Actions (MSCA)  
*Topic* HORIZON-MSCA-2024-DN-01-01 – MSCA Doctoral Networks 2024  
*Budget* Eur 4 758 293 (overall), Eur 281 755 (Sapienza)  
*Web-site* <https://www4.uib.no/en/research/research-projects/endotrain-doctoral-training-network>
- Consortium* 1. University of Bergen (Norway); 2. Ludwig-Maximilians-Universität München (Germany); 3. Evangelismos Hospital (Greece); 4. University of Bristol (UK); 5. Karolinska Institutet (Sweden); 6. Imperial College London (UK); 7. Adhera Health SLU (Spain); 8. University of Manchester (UK); 9. University of Birmingham (UK); 10. University of Ulm (Germany); 11. Sapienza University of Rome (Italy); 12. University of Reading (UK); 13. Université Côte d’Azur (France).
- Associated partners* 1. Universitätsspital Zürich; 2. ETH Zurich; 3. Leitwert AG; 4. Rarity Bioscience; 5. Dynamic Therapeutics; 6. Performacare; 7. EIT Digital; 8. National and Kapodistrian University of Athens.
- Sapienza Role* Sapienza research activities focus on methods and software based on hybrid model-based and data-driven Artificial Intelligence, digital twins simulation and model checking, to assist physicians with disease classification, treatment decision support, what-if analyses.
- 2022–2026 **“Rome Technopole” Innovation Ecosystem**, *PNRR Mission 4, Component 2, Investment 1.5*.
- Role* Member of the critical mass of Sapienza University of Rome  
*Funding* European Union – NextGenerationEU - CUP: B83C22002820006
- 2022–2024 **Explainable Artificial Intelligence to learn and standardise decision making in safety-critical clinical domains, with applications to psychotropic drug-based treatments of mental illness during pregnancy and lactation and criminal forensic psychiatry**, *Sapienza University of Rome*.
- Role* Principal Investigator  
*Project type* Sapienza University large research projects  
*Budget* Eur 68 787
- 2020–2022 **SDFS – Satellite Driven Fire Simulator**, *POR FESR 2014-2020, Strategic projects: Aerospace*.
- Role* Key person and task leader for the Computer Science Dept. of Sapienza University of Rome  
*Budget* Eur 250 000 (overall), Eur 73 600 (Sapienza Computer Science Dept.)  
*Consortium* 1. MPM Telecomunicazioni (Italy, Coordinator); 2. Tor Vergata University of Rome (Italy); 3. Computer Science Department, Sapienza University of Rome (Italy); 4. Chemistry Department, Sapienza University of Rome (Italy).
- Sapienza Computer Science Dept. Role* Research activities in charge of the Sapienza Computer Science Dept. focus on building a software that, by exploiting images from satellite constellations (such as Copernicus or SkyMed), GIS maps, and meteorological data, estimates the spread of a fire front in wooden areas.

- 2018–2019 **SCAPR – Sistema per il Contrasto di Aeromobili a Pilotaggio Remoto, FILAS LazioInnova, Italy.**
- Role* Key person and task leader for Sapienza University of Rome
- Budget* Eur 340 234 (overall), Eur 95 207 (Sapienza)
- Consortium* 1. Log.In (Italy, Coordinator); 2. Ariel Sistemi (Italy); 3. Sapienza University of Rome (Italy).
- Sapienza Role* Sapienza research activities focus on design and development of artificial intelligence and model checking–based algorithms for optimal placing of antennas to detect hostile unmanned aerial vehicles in sensitive areas.
- 2013–2016 **PAEON – Model Driven Computation of Treatments for Infertility Related Endocrinological Diseases, European Commission, Seventh Framework Programme (EC FP7).**
- Role* Key person and task leader for Sapienza University of Rome (*Project Coordinator*)
- Call* FP7-ICT-2011-9
- Objective* Virtual Physiological Human (ICT-2011.5.2)
- Project Type* Collaborative Project (STREP)
- Budget* Eur 2 453 997 (overall), Eur 626 382 (Sapienza)
- Web-site* [paeon.di.uniroma1.it](http://paeon.di.uniroma1.it)
- Consortium* 1. Sapienza University of Rome (Italy, Coordinator); 2. Lucerne University of Applied Sciences and Arts (Switzerland); 3. Hannover Medical School (Germany); 4. University Hospital Zurich (Switzerland); 5. Zuse Institute Berlin (Germany).
- Sapienza Role* 1. As Project Coordinator, Sapienza is responsible for the whole project; 2. Sapienza research activities focus on formal modelling of clinical treatment protocols, on their formal verification through model checking–based approaches, and on automated synthesis of individualised treatment protocols.
- 2012–2015 **SmartHG – Energy Demand Aware Open Services for Smart Grid Intelligent Automation, European Commission, Seventh Framework Programme (EC FP7).**
- Role* Key person and task leader for Sapienza University of Rome (*Project Coordinator*)
- Call* FP7-ICT-2011-8
- Objective* Smart Energy Grids (ICT-2011.6.1)
- Project Type* Collaborative Project (STREP)
- Budget* Eur 3 299 998 (overall), Eur 597 378 (Sapienza)
- Web-site* [smarthg.di.uniroma1.it](http://smarthg.di.uniroma1.it)
- Consortium* 1. Sapienza University of Rome (Italy, Coordinator); 2. Aarhus University (Denmark); 3. IMDEA Energía (Spain); 4. A. V. Luikov Heat and Mass Transfer Institute of the National Academy of Sciences of Belarus (Belarus); 5. ATANVO GmbH (Germany); 6. GridManager A/S (Denmark); 7. Panoramic Power (Israel); 8. Solintel (Spain); 9. SEAS – NVE (Denmark); 10. Kalundborg Municipality (Denmark); 11. Minskenergo (Belarus).
- Sapienza Role* 1. As Project Coordinator, Sapienza is responsible for the whole project; 2. Sapienza research activities focus on design of model checking–based software services for the computation of demand-aware electricity price policies for residential users and the formal verification of their *safety* for the Electrical Distribution Network.
- 2001–2003 **GENESIS – GEneralized eNvironment for procEsS management in cooperative Software engineering (IST-2000-29380), European Commission, Fifth Framework Programme (EC FP5).**
- Role* Member of the Sapienza unit, subcontractor of CRMPA – Università del Sannio, Italy (*Project Coordinator*)

*Action Line* 2000-4.3.1 Distributed development of software and systems  
*Project Type* IST Project  
*Budget* Eur 1 800 000 (overall)  
*Consortium* 1. CRMPA – Università degli Studi del Sannio (Italy, Coordinator); 2. Atos Origin SA (Spain); 3. University of Durham (UK); 4. MO.M.A. S.R.L. - Modelli Matematici ed Applicazioni (Italy); 5. LogicDis S.A. (Greece).

2001–2004 **ASTRO – Automazione dell'Ingegneria del Software basata su Conoscenza**, *Italian Ministry of Education and Research*.

*Role* Member of the Sapienza unit  
*Call* FIRB 2001  
*Project Type* Italian Fund for Basic Research (FIRB)  
*Budget* Eur 1 800 000 (overall)  
*Consortium* 1. Istituto Trentino di Cultura (Italy, Coordinator); 2. Sapienza University of Rome (Italy); 3. Genoa University (Italy); 4. Trento University (Italy); 5. Delisa SpA (Italy); 6. Laboratorio Analisi, Trento (Italy).

2001–2003 **SEKDBM – Sviluppo di un motore di ricerca tematico**, *Italian Ministry of Education and Research*.

*Role* Member of the team at Institute for Systems Analysis and Computer Science, Italian National Research Council (IASI-CNR)  
*Project Type* Research Framework nb. 297  
*Budget* Eur 2 000 000 (overall)  
*Consortium* 1. Institute for Systems Analysis and Computer Science, Italian National Research Council (IASI-CNR) (Italy, Coordinator); 2. Rational Services (Italy).

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### Responsibility in research programmes

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#### Supervision of research activities

**Ph.D. Scientific Board**, *Ph.D. Programme in Innovative Biomedical Technologies for Clinical Medicine*, Sapienza University of Rome.

2017– Board member.

**Ph.D. Scientific Board**, *Ph.D. Programme in Computer Science*, Sapienza University of Rome.

2009–2017 Board member.

2024– Ph.D. supervisor of Mr. Andrea Di Marco, Ph.D. programme in Computer Science.

2023– Ph.D. supervisor of Mr. Riccardo Curcio, National Ph.D. programme in Artificial Intelligence.

2023– Ph.D. co-supervisor of Mr. Benigno Ansanelli, Ph.D. programme in Computer Science.

2021– Ph.D. co-supervisor of Mr. Leonardo Picchiami, Ph.D. programme in Computer Science.

2019–2022 Ph.D. co-supervisor of Dr. Marco Esposito, Ph.D. programme in Computer Science.

2016–2019 Ph.D. supervisor of Dr. Stefano Sinisi, Ph.D. programme in Computer Science.

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#### Coordination and evaluation of research activities

2020– **MDPI Modelling**, *ISSN: 2673-3951*, Member of the editorial board.

- 2019– **Sapienza information-based Technology InnovaTion Center for Health (S.T.I.T.C.H. [web.uniroma1.it/stitch](http://web.uniroma1.it/stitch))**, *Sapienza University of Rome*, Member of the steering committee.
- 2007–2014 **Interest Group on Knowledge Representation and Automated Reasoning (RCRA, [rcra.aixia.it](http://rcra.aixia.it))**, *Italian Association for Artificial Intelligence (AI\*IA, [www.aixia.it](http://www.aixia.it))*, Coordinator.
- 2005– **Guest editorships for international journals.**  
 1. International Journal of Law and Psychiatry (Elsevier, 0160-2527); 2. Frontiers in Psychiatry (Frontiers, ISSN 1664-0640); 3. Real-Time Systems (Springer, ISSN 0922-6443); 4. AI Communications (IOS Press, ISSN 0921-7126); 5. Fundamenta Informaticae (IOS Press, ISSN 0169-2968); 6. Journal of Experimental and Theoretical Artificial Intelligence (Taylor & Francis, ISSN 1362-3079); 7. Journal of Algorithms in Cognition, Informatics and Logic (Elsevier, ISSN 0196-6774); 8. Annals of Mathematics and Artificial Intelligence (Springer, ISSN 1012-2443); 9. Intelligenza Artificiale (IOS Press, ISSN 1724-8035).
- 2005– **Organisation of scientific events.**  
 Chair/Co-chair for the following conferences and workshops: RCRA 2005, RCRA 2006, RCRA 2007, RCRA 2008, RCRA@AI\*IA 2009, RCRA 2009, RCRA 2010, ModRef 2010, RCRA 2011, RCRA 2012, SEMEXP 2012, RCRA 2013, RCRA 2014, IWES 2017, IWES 2021.
- 2005– **Conference (Senior) Programme Committees.**  
 Member of the (Senior) Programme Committee of the following international conferences and workshops: MICAI 2005, ModRef 2007, AAAI 2008, LaSh 2008, ModRef 2009, LaSh 2010, LoCoCo 2010, AAAI 2011, IJCAI 2011, LoCoCo 2011, AAAI 2012, RCRA 2015, RCRA 2016, ICTAI 2016, IJCAI 2016, ICTAI 2017, RCRA 2017, RCRA 2018, ICTAI 2018, AI4I 2018, CPSWS 2018, IJCAI 2019, AI4I 2019, ICTAI 2019, RCRA 2019, AI4I 2020, ICTAI 2020, IJCAI-PRICAI 2020, RCRA 2020, AI4I 2021, ICTAI 2021, RCRA 2021, AI4I 2022, ICTAI 2022, RCRA 2022, SDAIH 2022, AI4I 2023, ICTAI 2023, AAAI 2023, AAAI 2024.
- 2003– **Conference reviewer.**  
 Reviewer for the following international conferences and workshops: ModRef 2003, KR 2004, IJCAI 2005, KR 2006, LPAR 2007, ICLP 2008, SAT 2009, AAAI 2010, CP 2010, CP 2011, SpringSim 2014, CASE 2015, HVC 2017.
- 2006– **Journal reviewer.**  
 Reviewer for the following international scientific journals: Artificial Intelligence (Elsevier), Journal of Algorithms (Elsevier), Fundamenta Informaticae (IOS Press), AI Communications (IOS Press), Annals of Mathematics and Artificial Intelligence (Springer), Journal of Experimental and Theoretical Artificial Intelligence (Taylor and Francis), Simulation Modelling Practice and Theory (Elsevier), International Journal of Metaheuristics (InderScience), International Journal on Software Tools for Technology Transfer (Springer), Bioinformatics (Oxford University Press).
- 2008– **Project referee.**  
 Referee for research projects funded by the following international institutions: Austrian Research Fund (Austria), Università degli Studi di Verona (Italy), Agence nationale de la recherche (France).
- Member of research evaluation committees.**
- 2019 Member of the evaluation board for the Ph.D. in “Computer Science and Engineering”, Salerno University, Italy
- 2016–2017 Member of the research projects evaluation board, Sapienza University of Rome. The committee awarded grants for overall Eur 12 466 000 (in 2016) and Eur 10 107 450 (2017)
- 2010 Member of the AI\*IA (Italian Association for Artificial Intelligence) evaluation board for the best Ph.D. thesis prize

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## Academic visits

- 2008–2011 **Academic Visitor**, *Uppsala University, Department of Information Technology*, Uppsala, Sweden.  
4 visits for an overall duration of 17 months upon invitation by Prof. Pierre Flener. Visits have been funded by a STINT ([www.stint.se](http://www.stint.se)) and a Blanceflor ([www.blanceflor.se](http://www.blanceflor.se)) grant, as well as by Uppsala University.
- 2007 **Academic Visitor**, *Simon Fraser University, Computational Logic Laboratory*, Burnaby, BC, Canada.  
4-month visit upon invitation by Prof. David Mitchell. The visit has been funded by Simon Fraser University.
- 2006 **Academic Visitor**, *University of Oxford, Computing Laboratory*, Oxford, UK.  
3-month visit upon invitation by Prof. Georg Gottlob. The visit has been funded by University of Oxford.

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## Scientific talks

- 2022 **Invited speaker**, *University of Montreal*, Montreal, Canada.  
Talk title: Complete populations of virtual patients for in silico clinical trials.
- 2016 **Invited panelist**, *4th International Conference on Model-Driven Engineering and Software Development (Modelsward 2016)*, Rome, Italy.  
Panel title: Software engineering and IT: Challenge or Commodity for the Future Research in Europe?
- 2016 **Invited speaker**, *4th International Conference on Model-Driven Engineering and Software Development (Modelsward 2016)*, Rome, Italy.  
Talk title: Model Driven Computation of Treatments for Infertility Related Endocrinological Diseases (PAEON).
- 2015 **Invited speaker**, *Ufa State Aviation Technical University*, Ufa, Russian Federation.  
Talk title: System-Level Formal Verification of Cyber-Physical Systems.
- 2009 **Invited speaker**, *Information Technology Department, Uppsala University*, Uppsala, Sweden.  
Talk title: Beyond NP: Reasoning on quantified constraints.
- 2007 **Invited speaker**, *Computational Logic Laboratory, Simon Fraser University*, Burnaby, BC, Canada.  
Talk title: Declarative modelling and Constraint programming.
- 2007 **Invited speaker**, *Computational Logic Laboratory, Simon Fraser University*, Burnaby, BC, Canada.  
Talk title: Declarative constraint modelling and specification-level reasoning.
- 2002– **Conference speaker**, *in the following (peer-reviewed) International conferences and workshops*.  
FroCoS 2002, PODS 2002, APPIA-GULP-PRODE 2003, CP 2003, KR 2004, JELIA 2004, LPAR 2004, AAI 2005, SARA 2005, AI\*IA 2005, ECAI 2006, AI\*IA 2007, PAAMS 2009, SAC 2012, DSD 2014, FMCAD 2014, eHealth Week 2016.

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## Prizes and acknowledgements

- 2022 **Italian scientific abilitation to full professorship**, *Area 01/B1 – Informatica*, Law D.D. 553/2021, rectified by D.D. 589/2021.  
From 01/06/2022
- 2018 **Best paper award**, *24th International Symposium on Methodologies for Intelligent Systems (ISMIS 2018)*, Limassol, Cyprus.

*Paper title* T. Mancini, F. Mari, I. Melatti, I. Salvo, and E. Tronci. *An efficient algorithm for network vulnerability analysis under malicious attacks.*

*Prize* Eur 500

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## Teaching activities

- 2022– **Lecturer**, *Sapienza University of Rome, Computer Science Department*, Rome, Italy.  
*Course: Formal Methods in AI-based Systems Engineering* (M.Sc. in Computer Science).
- 2011– **Lecturer**, *Sapienza University of Rome, Computer Science Department*, Rome, Italy.  
*Courses: Databases 2 and Artificial Intelligence* (B.Sc. Programme in Computer Science).
- 2009–2010 **Teaching Assistant**, *Uppsala University, Computer Science Department*, Uppsala, Sweden.  
Labs responsible for the following courses: *Algorithms and Data Structures 1, Algorithms and Data Structures 2* (Kandidatprogram i datavetenskap, B.Sc. in Computer Science).
- 2004–2008 **Lecturer**, *Sapienza University of Rome, Department of Computer, Control, and Management Engineering*, Rome, Italy.  
*Courses: Software Design* (B.Sc. in Management Engineering) and *Formal Methods in Software Engineering* (M.Sc. in Computer Science Engineering).
- 2001–2010 **Teaching Assistant**, *Sapienza University of Rome, Department of Computer, Control, and Management Engineering*, Rome, Italy.  
*Courses: Formal Languages and Systems, Software Design 1* (B.Sc. in Computer Science Engineering), *Programming Languages 1, Programming Languages 2* (B.Sc. in Computer Science).

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## Third mission activities

- 2022– **Scientific coordinator**, *Istituto Tecnico Superiore "ICT Academy" Foundation*, Rome, Italy.  
*Role* Scientific coordinator, appointed by Sapienza University of Rome. More details on <https://www.its-ictacademy.com>

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## University administration activities

- 2011– **Study plans committee**, *Master Programme in Computer Science (LM-18), Sapienza University of Rome*, Rome, Italy.  
*Role* Evaluation of students' study plans.
- 2011– **Credit transfer committee**, *Master Programme in Computer Science (LM-18), Sapienza University of Rome*, Rome, Italy.  
*Role* Evaluation of students' credit transfers requests.

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## List of publications

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### Journal articles

- [J.1] M. Esposito, A. Leva, T. Mancini, L. Picchiami, and E. Tronci. "Simulation-Based Design of Industry-Size Control Systems with Formal Quality Guarantees". In: *IEEE Transactions on Industrial Informatics* 21.5 (2025), pp. 3871–3879. ISSN: 1551-3203. DOI: [10.1109/TII.2025.3528556](https://doi.org/10.1109/TII.2025.3528556).
- [J.2] L. Picchiami, M. Parmentier, A. Legay, T. Mancini, and E. Tronci. "Scaling Up Statistical Model Checking of Cyber-Physical Systems via Algorithm Ensemble and Parallel Simulations over HPC Infrastructures". In: *Journal of Systems and Software* 219 (2025), p. 112238. DOI: [10.1016/j.jss.2024.112238](https://doi.org/10.1016/j.jss.2024.112238).
- [J.3] M. Esposito, T. Mancini, and E. Tronci. "Optimizing Fault-Tolerant Quality-Guaranteed Sensor Deployments for UAV Localization in Critical Areas via Computational Geometry". In: *IEEE Transactions on Systems, Man and Cybernetics: Systems* 54.3 (2024), pp. 1515–1526. DOI: [10.1109/TSMC.2023.3327432](https://doi.org/10.1109/TSMC.2023.3327432).
- [J.4] T.H.C. Krüger, B. Leeners, E. Tronci, T. Mancini, F. Ille, M. Egli, H. Engler, S. Röblitz, H. Frieling, C. Sinke, et al. "The Androgen System Across the Menstrual Cycle: Hormonal, (Epi-)genetic and Psychometric Alterations". In: *Physiology and Behaviour* 259 (2023), p. 114034.
- [J.5] T. Mancini, I. Melatti, and E. Tronci. "Optimising Highly-Parallel Simulation-Based Verification of Cyber-Physical Systems". In: *IEEE Transactions on Software Engineering* (2023). ISSN: 0098-5589. DOI: [10.1109/TSE.2023.3298432](https://doi.org/10.1109/TSE.2023.3298432).
- [J.6] V. Schön, M.P. Hengartner, E. Tronci, T. Mancini, F. Ille, S. Röblitz, T. Krüger, and B. Leeners. "Sexual Attraction to Visual Sexual Stimuli in Association with Steroid Hormones Across Menstrual Cycles and Fertility Treatment". In: *Psychoneuroendocrinology* 151 (2023), p. 106060.
- [J.7] M. Lefebvre, M.P. Hengartner, E. Tronci, T. Mancini, F. Ille, S. Röblitz, T. Krüger, and B. Leeners. "Food Preferences Throughout the Menstrual Cycle—A Computer-Assisted Neuroendocrino-psychological Investigation". In: *Physiology and Behaviour* 255 (2022), p. 113943.
- [J.8] T. Mancini, I. Melatti, and E. Tronci. "Any-horizon Uniform Random Sampling and Enumeration of Constrained Scenarios for Simulation-based Formal Verification". In: *IEEE Transactions on Software Engineering* 48.10 (2022), pp. 4002–4013. ISSN: 0098-5589. DOI: [10.1109/TSE.2021.3109842](https://doi.org/10.1109/TSE.2021.3109842).
- [J.9] I. Melatti, F. Mari, T. Mancini, M. Prodanovic, and E. Tronci. "A Two-Layer Near-Optimal Strategy for Substation Constraint Management via Home Batteries". In: *IEEE Transactions on Industrial Electronics* 69.8 (2022), pp. 8566–8578. ISSN: 0278-0046. DOI: [10.1109/TIE.2021.3102431](https://doi.org/10.1109/TIE.2021.3102431).
- [J.10] G. Parmigiani, B. Barchielli, S. Casale, T. Mancini, and S. Ferracuti. "The Impact of Machine Learning in Predicting Risk of Violence: A Systematic Review". In: *Frontiers in Psychiatry* 13 (2022). ISSN: 1664-0640.
- [J.11] S. Fischer, R. Ehrig, S. Schäfer, E. Tronci, T. Mancini, M. Egli, F. Ille, T.H.C. Krüger, B. Leeners, and S. Röblitz. "Mathematical Modeling and Simulation Provides Evidence for New Strategies of Ovarian Stimulation". In: *Frontiers in Endocrinology* 12 (2021), p. 117. ISSN: 1664-2392. DOI: [10.3389/fendo.2021.613048](https://doi.org/10.3389/fendo.2021.613048).
- [J.12] B. Leeners, T. Krüger, K. Geraedts, E. Tronci, T. Mancini, F. Ille, M. Egli, S. Röblitz, D. Wunder, Lanja S., C. Schippert, and M.P. Hengartner. "Cognitive Function in Association with High Estradiol Levels Resulting from Fertility Treatment". In: *Hormones and Behavior* 130 (2021), p. 104951. DOI: [10.1016/j.yhbeh.2021.104951](https://doi.org/10.1016/j.yhbeh.2021.104951).
- [J.13] T. Mancini, F. Mari, A. Massini, I. Melatti, and E. Tronci. "On Checking Equivalence of Simulation Scripts". In: *Journal of Logical and Algebraic Methods in Programming* 120 (2021), p. 100640. ISSN: 2352-2208. DOI: [10.1016/j.jlamp.2021.100640](https://doi.org/10.1016/j.jlamp.2021.100640).

- [J.14] S. Sinisi, V. Alimguzhin, T. Mancini, and E. Tronci. "Reconciling Interoperability with Efficient Verification and Validation within Open Source Simulation Environments". In: *Simulation Modelling Practice and Theory* 109 (2021), p. 102277. ISSN: 1569-190X. DOI: [10.1016/j.simpat.2021.102277](https://doi.org/10.1016/j.simpat.2021.102277).
- [J.15] Q.M. Chen, A. Finzi, T. Mancini, I. Melatti, and E. Tronci. "MILP, Pseudo-Boolean, and OMT Solvers for Optimal Fault-Tolerant Placements of Relay Nodes in Mission Critical Wireless Networks". In: *Fundamenta Informaticae* 174.3-4 (2020), pp. 229-258. DOI: [10.3233/FI-2020-1941](https://doi.org/10.3233/FI-2020-1941).
- [J.16] F. Maggioli, T. Mancini, and E. Tronci. "SBML2Modelica: Integrating Biochemical Models within Open-Standard Simulation Ecosystems". In: *Bioinformatics* 36.7 (2020), pp. 2165-2172. ISSN: 1367-4803. DOI: [10.1093/bioinformatics/btz860](https://doi.org/10.1093/bioinformatics/btz860).
- [J.17] S. Sinisi, V. Alimguzhin, T. Mancini, E. Tronci, and B. Leeners. "Complete populations of virtual patients for in silico clinical trials". In: *Bioinformatics* 36.22-23 (2020), pp. 5465-5472. ISSN: 1367-4803. DOI: [10.1093/bioinformatics/btaa1026](https://doi.org/10.1093/bioinformatics/btaa1026).
- [J.18] S. Sinisi, V. Alimguzhin, T. Mancini, E. Tronci, F. Mari, and B. Leeners. "Optimal Personalised Treatment Computation through In Silico Clinical Trials on Patient Digital Twins". In: *Fundamenta Informaticae* 174.3-4 (2020), pp. 283-310. DOI: [10.3233/FI-2020-1943](https://doi.org/10.3233/FI-2020-1943).
- [J.19] B. Leeners, T.H.C. Krüger, K. Geraedts, E. Tronci, T. Mancini, M. Egli, S. Röblitz, L. Saleh, K. Spanaus, C. Schippert, Y. Zhang, and F. Ille. "Associations Between Natural Physiological and Supraphysiological Estradiol Levels and Stress Perception". In: *Frontiers in Psychology* 10 (2019), p. 1296. ISSN: 1664-1078. DOI: [10.3389/fpsyg.2019.01296](https://doi.org/10.3389/fpsyg.2019.01296).
- [J.20] B.P. Hayes, I. Melatti, T. Mancini, M. Prodanovic, and E. Tronci. "Residential Demand Management using Individualised Demand Aware Price Policies". In: *IEEE Transactions on Smart Grid* 8.3 (2017). ISSN: 1949-3053. DOI: [10.1109/TSG.2016.2596790](https://doi.org/10.1109/TSG.2016.2596790).
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