

Curriculum Vitae

Michele Loreti

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1 Titoli di Studio

Maggio 1997 *Laurea in Scienze dell'Informazione*, presso l'Università degli studi di Roma "La Sapienza" (Votazione: 110 e Lode). Titolo della tesi: *Esecuzione ed Analisi di Algebre di Processo tramite Reti di Petri*, Dipartimento di Scienze dell'Informazione, Università di Roma La Sapienza, 1997.

Gennaio 2002 (XIII Ciclo), presso il Dipartimento di Matematica dell'Università di Siena. Titolo della tesi: *Languages and Logics for Network Aware Programming*, Dipartimento di Matematica, Università di Siena.

2 Incarichi

2001-2002 Titolare di Assegno di Ricerca presso il Dipartimento di Sistemi e Informatica dell'Università di Firenze

2012, 2013 Visiting Professor presso *IMT Institute for Advanced Studies*, Lucca.

Dal 1 Novembre 2002 al 31 Ottobre 2017 Ricercatore (INF/01) presso la Facoltà di Scienze Matematiche Fisiche e Naturali dell'Università di Firenze.

Dal 1 Novembre 2017 al 31 Maggio 2021 Professore Associato (INF/01) presso la Scuola di Scienze e Tecnologie, Università di Camerino.

Dal 1 Giugno 2021 Professore Ordinario (INF/01) presso la Scuola di Scienze e Tecnologie, Università di Camerino.

Dal 1 Novembre 2019 al 15 Giugno 2021 Responsabile del corso di Laurea Magistrale in Computer Science, Università di Camerino.

Dal 15 Giugno 2021 Responsabile dei corsi di Laurea in Informatica ed Informatica per la Comunicazione Digitale, Università di Camerino.

3 Attività di Ricerca

Michele Loreti ha svolto la sua attività di ricerca principalmente nell'ambito degli strumenti formali per la specifica e verifica di sistemi concorrenti e distribuiti. Alcuni argomenti di tale ricerca sono stati:

1. la definizione di calcoli di processi adatti a ragionare su aspetti specifici dei sistemi distribuiti e mobili con particolare riferimento ai sistemi per il Global Computing e la progettazione di (nuclei di) linguaggi di programmazione per agenti mobili ed applicazioni distribuite network-aware;
2. la definizione di framework logici per la specifica e verifica di proprietà per sistemi distribuiti e mobili;
3. lo studio di semantiche stocastiche per calcoli di processo e la definizione di strumenti formali, quale logiche modali, per la specifica e la verifica di proprietà quantitative dei sistemi concorrenti e distribuiti;
4. la progettazione e la realizzazione di un framework di supporto allo sviluppo di ambienti di esecuzione per linguaggi basati su algebre di processo e lo sviluppo di strumenti di supporto (semi-)automatici per la verifica di proprietà di sistemi concorrenti distribuiti con mobilità ed il loro utilizzo per descrivere sistemi di medie dimensioni;

Altri argomenti di ricerca affrontati da Michele Loreti sono stati: la teoria dei tipi, la teoria dei linguaggi orientati agli oggetti e la progettazione e lo sviluppo di strumenti di supporto alla didattica. In quest'ultimo contesto sono stati sviluppati degli strumenti software per l'insegnamento dei fondamenti della programmazione e della teoria della concorrenza.

Progetti di Ricerca

Michele Loreti è stato responsabile del progetto Giovani Ricercatori 2000, Finanziato dall'Università degli Studi di Firenze, dal titolo Strumenti formali ed automatici di supporto alla programmazione di codice mobile. Ha inoltre partecipato ai seguenti progetti di ricerca nazionali ed internazionali:

- 1999-2001** Teoria della Concorrenza, Linguaggi di Ordine Superiore e Strutture di Tipi (TO-SCA) MURST programma di ricerca di interesse nazionale
- 1999-2001** Software Architectures and Languages to coordinate Distributed Mobile Components (SALADIN) MURST programma di ricerca di interesse nazionale
- 2000-2001** Sistemi di assegnazione di tipo per analisi e verifica di programmi, Gruppo Nazionale per le Strutture Algebriche, Geometriche e le loro Applicazioni (CNR)
- 2000-2001** Strumenti formali ed automatici di supporto alla programmazione di codice mobile, Young Researcher Initiative, Università degli Studi di Firenze
- 2001-2003** Sistemi di assegnazione di tipo per analisi e verifica di programmi, (continuazione progetto 2000), Gruppo Nazionale per le Strutture Algebriche, Geometriche e le loro Applicazioni (CNR)
- 2001-2003** Models, Calculi and Languages for Network Aware Programming (NAPOLI) MURST programma di ricerca di interesse nazionale
- 2001-2003** Network Aware Programming and Interoperability (NAPI), Microsoft Research
- 2002-2005** Mobile Calculi based on Domains (MIKADO) Funded by EU proactive initiative FET-Global Computing (Contract IST-2001-32222)
- 2002-2005** Architectures for Mobility (AGILE) Funded by EU proactive initiative FET-Global Computing (Contract IST-2001-32747)

- 2005-2007** Fondamenti Logici dei Sistemi Distribuiti e Codice Mobile, MIUR Programma di Ricerca di Interesse Nazionale.
- 2005-2009** Software Engineering for Service-Oriented Overlay Computers (SENSORIA) Funded by the European Union as an Integrated Project in the 6th framework program as part of the Global Computing Initiative (Contract IST-2005-16004).
- 2008-2010** Performability-Aware Computing: Logiche, Modelli e Linguaggi (PaCo), MIUR Programma di Ricerca di Interesse Nazionale.
- 2010-2014** Autonomic Service-Component Ensembles (ASCENS), Funded by the European Union as an Integrated Project (IP) in 7th Framework Programme (FP7) and part of Future Emerging Technologies initiative (Contract 257414)
- 2013-2016** CINA: Composizionalità, Interazione, Negoziiazione, Autonomia per la società ICT futura. Programma di Ricerca di Interesse Nazionale, Funded by MIUR.
- 2013-2017** A Quantitative Approach to Management and Design of Collective and Adaptive Behaviours (QUANTICOL). Funded by European Union in FOCAS Initiative.
- 2019-2022** IT MATTERS: Methods and Tools for Trustworthy Smart Systems. Programma di Ricerca di Interesse Nazionale, Funded by MIUR (site leader).

4 Attività didattica e supervisione tesi

Michele Loreti è stato relatore e co-relatore di oltre 100 tesi di laurea (Laurea in Informatica, Laurea Specialistica in Scienze e Tecnologia dell'Informazione, Laurea in Informatica (5 anni), Laurea in Scienze dell'Informazione). Alcuni degli studenti hanno continuato i loro studi nei corsi di dottorato di ricerca.

Michele Loreti è stato supervisore dei seguenti studenti di dottorato:

- Daniele Falassi (co-supervisore con Rocco De Nicola)
- Francesco Calzolari
- Liliana D'Errico
- Yehia Abd Alrahman (co-supervised with Rocco De Nicola)

Attualmente Michele Loreti è supervisore dei seguenti studenti di dottorato:

- Anika Rehman, studentessa al II anno del dottorato in *Computer Science and Mathematics*, School of Advanced Studies, Università di Camerino
- Nicola Del Giudice, studente al I anno del dottorato in *Computer Science and Mathematics*, School of Advanced Studies, Università di Camerino
- Lorenzo Matteucci, studente al I anno del dottorato in *Computer Science and Mathematics*, School of Advanced Studies, Università di Camerino

4.1 Incarichi di docenza

Di seguito vengono riportati gli incarichi di docenza svolti da Michele Loreti:

- Corsi di Introduzione all'Informatica (Università di Firenze, 1999-2003, 2005-2006, 2008-2011)

- Laboratorio di Reti (Corso di Laurea in Informatica, Università di Firenze, 2002-2005)
- Programmazione di Reti (Corso di Laurea in Informatica, Università di Firenze, 2002-2008)
- Metodi Formali per la Programmazione (Laurea Specialistica in Informatica, Università di Firenze, , 2004-2009)
- Compilatori (Corso di Laurea Magistrale in Informatica, Università di Firenze, 2009-2011)
- Ensemble-oriented programming of self-adaptive systems (PhD course at AWASS Summer School 2013, Lucca, Italy)
- Metodi Formali per la Verifica di Sistemi (Corso di Laurea Magistrale in Informatica, Università di Firenze, 2012-2017)
- Reti di Calcolatori (Corso di Laurea Triennale in Informatica, Università di Firenze, 2012-2017)
- Introduction to Computer Programming and Programming Methodology (PhD course at IMT Lucca, 2012-2017)
- Principles of Model-checking (PhD course at Gran Sasso Science Institute, 2014-2019)
- Development of Distributed Applications with jRESP (*Bachelor Students* at DTU, 2016)
- Programmazione Avanzata (Corso Triennale in Informatica, Università di Camerino, 2017-2021)
- Advanced Topics in Software Engineering (Master degree in Computer Science at Università di Camerino, 2017-2020)
- Performance Modelling and Simulation (Master degree in Computer Science at Università di Camerino, 2019-2020)
- Docente Cyberchallenge presso l'Università di Camerino (2019-2021)

5 Altre Attività e Titoli

Michele Loreti ha svolto le seguenti attività:

- Componente dell'*editorial board* del *The Journal of Logical and Algebraic Methods in Programming*, Elsevier
- Componente dell'*editorial board (reproducibility board)* di *ACM Transactions on Modeling and Computer Simulation*, ACM.
- Scientific e Technical Co-chair del *4th Italian Conference on Cyber Security* (ITASEC 2020)
- Co-chair del *20th International Conference on Coordination Models and Languages* (COORDINATION 2018)
- Co-chair del *1st International Workshop on FORmal methods for the quantitative Evaluation* (FORECAST 2016)
- Co-chair della *15th Italian Conference on Theoretical Computer Science* (ICTCS 2015)
- Co-chair del *10th International Symposium on Trustworthy Global Computing* (TGC 2015)
- Co-Scientific director di *Open Problems in Concurrency Theory* (OPCT 2014)

- General Chair della *8th International Federated Conference on Distributed Computing Techniques (DisCoTec)*, che si terrà a Firenze dal 3 al 6 Giugno 2013.
- è stato membro dei seguenti comitati di programma:
 - *5th Italian Conference on Cyber Security (ITASEC 2021)*
 - *9th Conference on Algebra and Coalgebra in Computer Science (CALCO 2021)*
 - *22st Italian Conference on Theoretical Computer Science (ICTCS 2021)*
 - *23st International Conference on Coordination Models and Languages (COORDINATION 2021)*
 - *22nd International Conference on Coordination Models and Languages (COORDINATION 2020)*
 - *21st Italian Conference on Theoretical Computer Science (ICTCS 2020)*
 - *21st International Conference on Coordination Models and Languages (COORDINATION 2019)*
 - *21th Italian Conference on Theoretical Computer Science (ICTCS 2020)*
 - *4th eCAS Workshop on Engineering Collective Adaptive Systems (eCAS2019)*
 - *11th Workshop on Programming Language Approaches to Concurrency and Communication-Entric Software (PLACES2019)*
 - *The 7th IEEE International Workshop on Formal Methods Integration (FMI2019)*
 - *16th Workshop on Quantitative Aspects of Programming Languages and Systems (QAPL 2019)*
 - *23rd International Symposium on Formal Methods (FM 2019)*
 - *3rd Workshop on Engineering Collective Adaptive Systems (eCAS2018)*
 - *15th Workshop on Quantitative Aspects of Programming Languages and Systems (QAPL 2018)*
 - *19th International Conference on Coordination Models and Languages (COORDINATION 2017)*
 - *14th International Workshop on Quantitative Aspects of Programming Languages and Systems (QAPL 2016)*
 - *26th Conference on Concurrency Theory (CONCUR 2015)*
 - *3nd IEEE International Workshop on Formal Methods Integration (FMi 2015)*
 - *8th International Conference on Performance Evaluation Methodologies and Tools (ValueTools 2014)*
 - *2nd IEEE International Workshop on Formal Methods Integration (FMi 2014)*
 - *16th International Conference on Coordination Models and Languages (COORDINATION 2014)*
 - *9th International Symposium on Trustworthy Global Computing (TGC 2014)*
 - *3rd Workshop On GRAPH Inspection and Traversal Engineering (GRAPHITE 2014)*
 - *7th International Conference on Performance Evaluation Methodologies and Tools (ValueTools 2013)*
 - *International Conference on Integrating Formal Methods (2012, 2013)*
 - *1st International Workshop on Formal Methods for Self-Adaptive Systems (2012)*
 - *7th European Performance Engineering Workshop (2010)*

- *Workshop on Agent Based Computing* (2007, 2008, 2010,2011)
- *Coordination Models, Languages and Architectures of Symposium on Applied Computing* (SAC'09 e SAC'10)
- è stato parte del Collegio di Disciplina dell'Università degli Studi di Firenze (2013-2017).
- è componente del *Collegio dei Docenti* del Dottorato di Ricerca in *Computer Science and Matematics*, International School of Advanced Studies, Università di Camerino.
- è componente del *Collegio dei Docenti* del Dottorato di Ricerca di Interesse Nazionale in *CyberSecurity*.
- è stato responsabile del *Corso di Laurea Magistrale in Computer Science*, Scuola di Scienze e Tecnologie, Università di Camerino.
- è stato coordinatore del *Collegio dei Docenti* del Dottorato di Ricerca in *Computer Science and Matematics*, International School of Advanced Studies, Università di Camerino.
- è Direttore della *School of Advanced Studies* dell'Università di Camerino.

6 Pubblicazioni Scientifiche

6.1 Articoli su rivista

- 2022 NENZI, L., BARTOCCI, E., BORTOLUSSI, L., AND LORETI, M. A logic for monitoring dynamic networks of spatially-distributed cyber-physical systems. *Logical Methods in Computer Science Volume 18, Issue 1* (Jan. 2022)
- 2021 DE NICOLA, R., DUONG, T., AND LORETI, M. Provably correct implementation of the abc calculus. *Science of Computer Programming* 202 (2021), 102567
- 2020 BORTOLUSSI, L., HILLSTON, J., AND LORETI, M. Fluid approximation of broadcasting systems. *Theor. Comput. Sci.* 816 (2020), 221–248
- CASTIGLIONI, V., LORETI, M., AND TINI, S. The metric linear-time branching-time spectrum on nondeterministic probabilistic processes. *Theor. Comput. Sci.* 813 (2020), 20–69
- ABD ALRAHMAN, Y., NICOLA, R. D., AND LORETI, M. Programming interactions in collective adaptive systems by relying on attribute-based communication. *Sci. Comput. Program.* 192 (2020), 102428
- 2019 LORETI, M. Replicated computations results (rcr) report for statistical abstraction for multi-scale spatio-temporal systems. *ACM Trans. Model. Comput. Simul.* 29, 4 (Dec. 2019)
- VISSAT, L. L., LORETI, M., NENZI, L., HILLSTON, J., AND MARION, G. Analysis of spatio-temporal properties of stochastic systems using tstl. *ACM Trans. Model. Comput. Simul.* 29, 4 (Dec. 2019)
- ALRAHMAN, Y. A., DE NICOLA, R., AND LORETI, M. A calculus for collective-adaptive systems and its behavioural theory. *Inf. Comput.* 268 (2019)
- 2018 NENZI, L., BORTOLUSSI, L., CIANCIA, V., LORETI, M., AND MASSINK, M. Qualitative and quantitative monitoring of spatio-temporal properties with SSTL. *Logical Methods in Computer Science* 14, 4 (2018)
- CIANCIA, V., GILMORE, S., GRILLETTI, G., LATELLA, D., LORETI, M., AND MASSINK, M. Spatio-temporal model checking of vehicular movement in public transport systems. *STTT* 20, 3 (2018), 289–311
- LORETI, M. Replicated computations results (RCR) report for "mesoscopic modelling of pedestrian movement using carma and its tools". *ACM Trans. Model. Comput. Simul.* 28, 2 (2018), 12:1–12:3
- 2017 LLUCH-LAFUENTE, A., LORETI, M., AND MONTANARI, U. Asynchronous distributed execution of fixpoint-based computational fields. *Logical Methods in Computer Science* 13, 1 (2017)
- 2016 CIANCIA, V., LATELLA, D., LORETI, M., AND MASSINK, M. Model Checking Spatial Logics for Closure Spaces. *Logical Methods in Computer Science* 12 (2016)
- CHITI, F., FANTACCI, R., LORETI, M., AND PUGLIESE, R. Context-aware wireless mobile autonomic computing and communications: research trends and emerging applications. *IEEE Wireless Commun.* 23, 2 (2016), 86–92
- 2015 BERNARDO, M., DE NICOLA, R., AND LORETI, M. Revisiting bisimilarity and its modal logic for nondeterministic and probabilistic processes. *Acta Inf.* 52, 1 (2015), 61–106

- BOREALE, M., BRUNI, R., DE NICOLA, R., AND LORETI, M. CaSPiS: a calculus of sessions, pipelines and services. *Mathematical Structures in Computer Science* 25, 3 (2015), 666–709
- LATELLA, D., LORETI, M., AND MASSINK, M. On-the-fly PCTL fast mean-field approximated model-checking for self-organising coordination. *Sci. Comput. Program.* 110 (2015), 23–50
- 2014 BERNARDO, M., DE NICOLA, R., AND LORETI, M. Revisiting Trace and Testing Equivalences for Nondeterministic and Probabilistic Processes. *Logical Methods in Computer Science* 10, 1 (2014), 1–16
- BERNARDO, M., GEBLER, D., AND LORETI, M. Report on OPCT 2014. *Bulletin of the EATCS* 114 (2014)
- DE NICOLA, R., LORETI, M., PUGLIESE, R., AND TIEZZI, F. A formal approach to autonomic systems programming: The SCEL Language. *ACM Transactions on Autonomous and Adaptive Systems* 9, 2 (2014), 7:1–7:29
- BERNARDO, M., DE NICOLA, R., AND LORETI, M. Relating strong behavioral equivalences for processes with nondeterminism and probabilities. *Theoretical Computer Science* 546 (2014), 63–92
- 2013 DE NICOLA, R., LATELLA, D., LORETI, M., AND MASSINK, M. A uniform definition of stochastic process calculi. *ACM Comput. Surv.* 46, 1 (2013), 5:1–5:35
- BERNARDO, M., DE NICOLA, R., AND LORETI, M. A uniform framework for modeling non-deterministic, probabilistic, stochastic, or mixed processes and their behavioral equivalences. *Inf. Comput.* 225, 1 (2013), 29–82
- 2008 DE NICOLA, R., AND LORETI, M. Modelling global computations with Klaim. *Philosophical Transactions of the Royal Society of London A: Mathematical, Physical and Engineering Sciences* 366, 1881 (2008), 3737–3745
- DE NICOLA, R., AND LORETI, M. Multiple-Labelled Transition Systems for nominal calculi and their logics. *Mathematical Structures in Computer Science* 18, 1 (2008), 107–143
- CALZOLAI, F., DE NICOLA, R., LORETI, M., AND TIEZZI, F. TAPAs: A Tool for the Analysis of Process Algebras. *T. Petri Nets and Other Models of Concurrency* 1 (2008), 54–70
- 2007 DE NICOLA, R., KATOEN, P., LATELLA, D., LORETI, M., AND MASSINK, M. Model checking mobile stochastic logic. *Theor. Comput. Sci.* 382, 1 (2007), 42–70
- 2006 BETTINI, L., DE NICOLA, R., AND LORETI, M. Implementing Mobile and Distributed Applications in X-Klaim. *Scalable Computing: Practice and Experience* 7, 4 (2006)
- 2004 BETTINI, L., DE NICOLA, R., AND LORETI, M. Formulae Meet Programs Over the Net: A Framework for Correct Network Aware Programming. *Autom. Softw. Eng.* 11, 3 (2004), 245–288
- DE NICOLA, R., AND LORETI, M. A modal logic for mobile agents. *ACM Trans. Comput. Log.* 5, 1 (2004), 79–128

6.2 Atti di conferenze internazionali con referaggio

- 2022 LORETI, M., AND REHMAN, A. A logical framework for reasoning about local and global properties of collective systems. In *Quantitative Evaluation of Systems - 19th International Conference, QEST 2022, Warsaw, Poland, September 12-16, 2022, Proceedings* (2022), E. Ábrahám and M. Paolieri, Eds., vol. 13479 of *Lecture Notes in Computer Science*, Springer, pp. 133–149
- GIUDICE, N. D., MATTEUCCI, L., QUADRINI, M., REHMAN, A., AND LORETI, M. Sibilla: A tool for reasoning about collective systems. In *Coordination Models and Languages - 24th IFIP WG 6.1 International Conference, COORDINATION 2022, Held as Part of the 17th International Federated Conference on Distributed Computing Techniques, DisCoTec 2022, Lucca, Italy, June 13-17, 2022, Proceedings* (2022), M. H. ter Beek and M. Sirjani, Eds., vol. 13271 of *Lecture Notes in Computer Science*, Springer, pp. 92–98
- 2021 CASTIGLIONI, V., LORETI, M., AND TINI, S. How adaptive and reliable is your program? In *Formal Techniques for Distributed Objects, Components, and Systems - 41st IFIP WG 6.1 International Conference, FORTE 2021, Held as Part of the 16th International Federated Conference on Distributed Computing Techniques, DisCoTec 2021, Valletta, Malta, June 14-18, 2021, Proceedings* (2021), K. Peters and T. A. C. Willemse, Eds., vol. 12719 of *Lecture Notes in Computer Science*, Springer, pp. 60–79
- VISCONTI, E., BARTOCCI, E., LORETI, M., AND NENZI, L. Online monitoring of spatio-temporal properties for imprecise signals. In *MEMOCODE '21: 19th ACM-IEEE International Conference on Formal Methods and Models for System Design, Virtual Event, China, November 20 - 22, 2021* (2021), S. Arun-Kumar, D. Méry, I. Saha, and L. Zhang, Eds., ACM, pp. 78–88
- 2020 BARTOCCI, E., BORTOLUSSI, L., LORETI, M., NENZI, L., AND SILVETTI, S. Moonlight: A lightweight tool for monitoring spatio-temporal properties. In *Runtime Verification - 20th International Conference, RV 2020, Los Angeles, CA, USA, October 6-9, 2020, Proceedings* (2020), J. Deshmukh and D. Nickovic, Eds., vol. 12399 of *Lecture Notes in Computer Science*, Springer, pp. 417–428
- NENZI, L., BARTOCCI, E., BORTOLUSSI, L., LORETI, M., AND VISCONTI, E. Monitoring spatio-temporal properties (invited tutorial). In *Runtime Verification - 20th International Conference, RV 2020, Los Angeles, CA, USA, October 6-9, 2020, Proceedings* (2020), J. Deshmukh and D. Nickovic, Eds., vol. 12399 of *Lecture Notes in Computer Science*, Springer, pp. 21–46
- CASTIGLIONI, V., LORETI, M., AND TINI, S. Measuring adaptability and reliability of large scale systems. In *Leveraging Applications of Formal Methods, Verification and Validation: Engineering Principles - 9th International Symposium on Leveraging Applications of Formal Methods, ISOFA 2020, Rhodes, Greece, October 20-30, 2020, Proceedings, Part II* (2020), T. Margaria and B. Steffen, Eds., vol. 12477 of *Lecture Notes in Computer Science*, Springer, pp. 380–396
- 2019 DE NICOLA, R., DUONG, T., AND LORETI, M. ABEL - A domain specific framework for programming with attribute-based communication. In *Coordination Models and Languages - 21st IFIP WG 6.1 International Conference, COORDINATION 2019, Held as Part of the 14th International Federated Conference on Distributed Computing Techniques, DisCoTec 2019, Kongens Lyngby, Denmark, June 17-21, 2019, Proceedings* (2019), H. R. Nielson and E. Tuosto, Eds., vol. 11533 of *Lecture Notes in Computer Science*, Springer, pp. 111–128

- BENNACEUR, A., GHEZZI, C., TEI, K., KEHRER, T., WEYNS, D., CALINESCU, R., DUSTDAR, S., HU, Z., HONIDEN, S., ISHIKAWA, F., JIN, Z., KRAMER, J., LITOIU, M., LORETI, M., MORENO, G. A., MÜLLER, H. A., NENZI, L., NUSEIBEH, B., PASQUALE, L., REISIG, W., SCHMIDT, H., TSIGKANOS, C., AND ZHAO, H. Modelling and analysing resilient cyber-physical systems. In *Proceedings of the 14th International Symposium on Software Engineering for Adaptive and Self-Managing Systems, SEAMS@ICSE 2019, Montreal, QC, Canada, May 25-31, 2019* (2019), M. Litoiu, S. Clarke, and K. Tei, Eds., ACM, pp. 70–76
- TSIGKANOS, C., NENZI, L., LORETI, M., GARRIGA, M., DUSTDAR, S., AND GHEZZI, C. Inferring analyzable models from trajectories of spatially-distributed internet of things. In *Proceedings of the 14th International Symposium on Software Engineering for Adaptive and Self-Managing Systems, SEAMS@ICSE 2019, Montreal, QC, Canada, May 25-31, 2019* (2019), M. Litoiu, S. Clarke, and K. Tei, Eds., ACM, pp. 100–106
- 2018 VASHTI GALPIN, ANASTASIS GEORGIOULAS, M. L. A. V. Statistical model checking of carma models using multivesta: an advanced tutorial. In *Proceedings of WSC 2018* (2018), B. Johansson and S. Jain, Eds., IEEE, pp. 395–409
- ALRAHMAN, Y. A., DE NICOLA, R., GARBI, G., AND LORETI, M. A distributed coordination infrastructure for attribute-based interaction. In *Formal Techniques for Distributed Objects, Components, and Systems - 38th IFIP WG 6.1 International Conference, FORTE 2018, Held as Part of the 13th International Federated Conference on Distributed Computing Techniques, DisCoTec 2018, Madrid, Spain, June 18-21, 2018, Proceedings* (2018), C. Baier and L. Caires, Eds., vol. 10854 of *Lecture Notes in Computer Science*, Springer, pp. 1–20
- 2017 LATELLA, D., LORETI, M., AND MASSINK, M. Flyfast: A scalable approach to probabilistic model-checking based on mean-field approximation. In *ModelEd, TestEd, TrustEd - Essays Dedicated to Ed Brinksma on the Occasion of His 60th Birthday* (2017), J.-P. Katoen, R. Langerak, and A. Rensink, Eds., vol. 10500 of *Lecture Notes in Computer Science*, Springer, pp. 254–275
- BARTOCCI, E., BORTOLUSSI, L., LORETI, M., AND NENZI, L. Monitoring mobile and spatially distributed cyber-physical systems. In *Proceedings of the 15th ACM-IEEE International Conference on Formal Methods and Models for System Design, MEMOCODE 2017, Vienna, Austria, September 29 - October 02, 2017* (2017), J.-P. Talpin, P. Derler, and K. Schneider, Eds., ACM, pp. 146–155
- VISSAT, L. L., LORETI, M., NENZI, L., HILLSTON, J., AND MARION, G. Three-valued spatio-temporal logic: A further analysis on spatio-temporal properties of stochastic systems. In *Quantitative Evaluation of Systems - 14th International Conference, QEST 2017, Berlin, Germany, September 5-7, 2017, Proceedings* (2017), N. Bertrand and L. Bortolussi, Eds., vol. 10503 of *Lecture Notes in Computer Science*, Springer, pp. 317–332
- LATELLA, D., LORETI, M., AND MASSINK, M. Flyfast: A mean field model checker. In *Tools and Algorithms for the Construction and Analysis of Systems - 23rd International Conference, TACAS 2017, Held as Part of the European Joint Conferences on Theory and Practice of Software, ETAPS 2017, Uppsala, Sweden, April 22-29, 2017, Proceedings, Part II* (2017), A. Legay and T. Margaria, Eds., vol. 10206 of *Lecture Notes in Computer Science*, pp. 303–309
- 2016 ALRAHMAN, Y. A., DE NICOLA, R., AND LORETI, M. Programming of CAS Systems by Relying on Attribute-Based Communication. In *Leveraging Applications of Formal Methods, Verification and Validation: Foundational Techniques - 7th International Symposium, ISoLA 2016, Imperial, C* (2016), T. Margaria and B. Steffen, Eds., vol. 9952 of *Lecture Notes in Computer Science*, pp. 539–553

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Firenze, 23 Marzo 2023

Firma
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