

Stefano Guerrini

Short Bio

I am a full professor in the LIPN “Laboratoire d’Informatique de Paris Nord” (Paris Nord Computer Science Laboratory) of the “Université Paris 13, Sorbonne Paris Cité”, where I have led the LCR “Logique, Calcul et Raisonnement” (Logic, Computation, and Reasoning) research team, until last september, when it is become the LoVe “Logique et Vérification” (Logic and Verification) team, and I am the president of the Computer Science Departement.

I got my PhD at the Computer Science Departement of Pisa University, in 1995. My thesis “Theoretical and Practical Issues of Optimal Implementations of Functional Languages” got the award for the best italian dissertation on theoretical computer science, for the 1995-96 period, from the Italian Chapter of EATCS. After some postdoc grants in Philadelphia (IRCS, University of Pennsylvania), Marseille (IML), and London (Queen Mary), I have a got a permanent position in Rome at “Università degli Studi di Roma, La Sapienza”, where I have been an assistant professor, from 1999 to 2001, and an associate professor, from 2001 to 2009. In 2009, I moved to Paris 13 University.

Selected Publications

- S. Guerrini, and M. Solieri. Is the optimal implementation inefficient? Elementarily not. Second International Conference on Formal Structures for Computation and Deduction (FSCD), Oxford, 2017.
- S. Guerrini, S. Martini, and A. Masini. Quantum Turing Machines Computations and Measurements. CoRR abs/1703.07748, 2017.
- S. Guerrini, and A. Masini. Proofs, Tests and Continuation Passing Style. ACM Transactions on Computational Logic (TOCL), vol. 10, no. 2, pp. 1-34, 2009.
- S. Guerrini. Correctness of Multiplicative Proof Nets is Linear. Proceedings of the 14th Annual IEEE Symposium on Logic in Computer Science (LICS '99), 2-5 July, 1999, Trento, Italy: IEEE Computer Society, pp. 454-463, 1999.
- A. Asperti, and S. Guerrini, The Optimal Implementation of Functional Programming Languages, Cambridge University Press, 1998.
- C. Böhm, A. Piperno, and S. Guerrini. λ -definition of Functional(s) by Normal Forms. LNCS, vol. 788, Springer-Verlag, pp. 135-149, 1994.

Election Statement

My main interests come from λ -calculus, functional programming, and linear logic, even if, more recently, I have started studying foundations of quantum computation. Therefore, I completely feel at home at FSCD, and I strongly believe that it must continue to be the home of the rewriting and λ -calculus communities, carrying on its important task of revising the tradition of two historical conferences as RTA and TLCA. At the same time, I completely agree with the FSCD statement that FSCD aims at modernising and updating the scopes of the conferences it replaces. I think that FSCD must remain a preferred place where to present and discuss technical developments relevant for λ -calculus and rewriting (and of related topics already in the scope of RTA and TLCA), but it must also be the natural place where to look for new directions, and new applications. For this, an important role can be played by the affiliated workshops and by special or thematic sessions. I also think that we should do our best to encourage submissions and participation by young researchers—for instance, by encouraging the organisation of student or poster sessions. Because of the above reasons, affiliated to FSCD 2017, last year I have organised with Lorenzo Tortora de Falco and Thomas Ehrhard a workshop on Trends in Linear Logic and Applications (TLA) whose scope was mainly focused on new applications of linear logic and on its application to other fields, and we encouraged the participation of young researchers by allocating a consistent budget for student grants. the workshop has been organised this year too, affiliated to FSCD. I also think that our community must actively interact with research communities whose scopes overlap or are strongly related to that of FSCD. Following the success of the joint organisation of FSCD and ICFP at Oxford, last year, and the organisation within FLoC of this year, I propose (jointly with Giulio Manzonetto and Kaustuv Chaudhuri) to co-organise FSCD and IJCAR in 2020 in Paris.