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Christoph Dürr

senior researcher (DR2)

Research areas

algorithms	scheduling, online algorithms, explorable uncertainty
former areas	cellular automata, discrete tomography, quantum computing, algorithmic game theory

Education

2005	**Habilitation**, *University Paris-Sud, Orsay*
1994–1997	**PhD in Computer Science**, *University Paris-Sud, Orsay*

Awards

2009	**best paper award in ESA**
2004	**best paper award in ICALP track A**

Professional experience

2022	**one year stay**, *Universidad de Chile*
since 2011	**senior researcher at the CNRS**, *Sorbonne Université*
2004–2011	**CNRS sabatical then junior researcher at the CNRS**, *Ecole Polytechnique, Palaiseau*
1999–2004	**Assistant professor at IUT d'Orsay**, *Univ. Paris-Sud*
1998–1999	**Postdoc**, *Hebrew University of Jerusalem*
1997–1998	**Postdoc**, *International Computer Science Institute*, Berkeley

Current teaching

2002–2024	**Master MPRI**, *over the years: quantum computing, scheduling, discrete optimization, local search, algorithms and uncertainty*
2019–now	**Sorbonne University, Licence**, *Competitive programming, training for the ICPC/SWERC competition*

PhD Students

2025–now	**Mathis Degryse**, *Learning augmented online algorithms for packing problems*
2022–2025	**Georgii Melidi**, *Algorithms under Uncertainty: Robust Methods and Decision-Theoretic Evalua- tion*
2016–2020	**Jin Shendan**, *Online Algorithms with recourse*, now at MSA Market Data Volatilities, Murex
2011–2014	**Oscar Vasquez**, *Job scheduling to balance energy minimization with quality of service: optimization and game theory*, now ass. prof. at Univ. of Santiago
2006–2009	**Nguyen Kim Thang**, *Pure equilibria: existence, inefficiency and online auction*, now prof. at Univ. of Grenoble
2005–2008	**Mathilde Hurand**, *A contribution to optimization for scheduling and some other problems*, now at Google Zürich

Selected publications

[1] Spyros Angelopoulos, Christoph Dürr, Alex Elenter, and Georgii Melidi. "Scenario-Based Robust Optimization of Tree Structures". In: *Proceedings of the 39th Annual AAAI Conference on Artificial Intelligence*. Philadelphia, 2025.

[2] Spyros Angelopoulos, Marcin Bienkowski, Christoph Dürr, and Bertrand Simon. "Contract Scheduling with Distributional and Multiple Advice". In: *Proceedings of the Thirty-Third International Joint Conference on Artificial Intelligence, IJCAI 2024, Jeju, South Korea, August 3-9, 2024*. ijcai.org, 2024, pp. 3652–3660.

[3] Spyros Angelopoulos, Christoph Dürr, Alex Elenter, and Yanni Lefki. "Overcoming Brittleness in Pareto-Optimal Learning-Augmented Algorithms". In: *Proceedings of the Thirty-eighth Annual Conference on Neural Information Processing Systems (NeurIPS)*. 2024.

[4] Spyros Angelopoulos, Christoph Dürr, Shendan Jin, Shahin Kamali, and Marc Renault. "Online computation with untrusted advice". en. In: *Journal of Computer and System Sciences* 144 (Sept. 2024), p. 103545.

[5] Evripidis Bampis, Christoph Dürr, Thomas Erlebach, Murilo Santos de Lima, Nicole Megow, and Jens Schlöter. "Orienting (Hyper)graphs Under Explorable Stochastic Uncertainty". In: *Proc. of the 29th Annual European Symposium on Algorithms (ESA)*. Vol. 204. Barcelona, Sept. 2021, pp. 1–10.