In Memoriam Gilles Dowek

1966 - 2025



His vast research domain

- Automated proof search and higher-order unification (1990 2000)
 - Decidability of third-order matching
 - Excellent survey on higher-order unification in the Handbook of Automated Reasoning
- Deduction modulo theory (1999 2010)
 - Extended theorem proving techniques
 - Cut elimination for many theories, using semantic techniques
- The Dedukti Logical Framework (2007 2025)
 - Logipedia, proof system interoperability, universality of mathematics (IJCAR 2022)
- Linear/quantum lambda-calculi (2004 2025)
- Airborne coordinated conflict resolution and detection (2001 2012)

Beyond the great researcher...

- Very much implicated in scientific dissemination
 - Les métamorphoses du calcul (Y)
 - Le temps des algorithmes (Y), with Serge Abiteboul
 - Monthly column in *Pour la science*, from 2014 to 2021
 - etc...
- Advocated for integration of computer science in high-school curriculum in France Participated in group of experts responsable for its elaboration
- Exceptional teacher, wrote many university- and school-level books
- Militated for LGBT rights, wrote theater piece presented at Avignon, played basson, etc

Timeline

1985		Joins École Polytechnique as student
1991		PhD degree with Gérard Huet
1993		Joins INRIA as researcher
2000		Award Alembert des lycéens, of the Société Mathématique de France
2002		Joins École Polytechnique as professor, until 2010
2007		Grand prix of philosophy of the Académie Française for the book Les Métamorphoses du calcul
2010		Creates Deducteam INRIA project team, which he leads until 2024
2011		Elaborates national high-school curriculum for digital sciences, together with other experts
2015		Joins École Normale Supérieur Paris-Saclay as professor
2018		Award La science se livre for the book Le temps des algorithmes, with Serge Abiteboul
2023		Grand prix INRIA of the Académie des sciences
2024		Medal of History of Science and Epistemology of the Académie des sciences
	•	



Inter-WG Europroofnet meeting, 2023



Deducteam, 2022

Gilles, we will miss you so much!



Logipedia meeting, 2019