

**LASSERRE Jean-Bernard** (ORCID: 0000-0003-0860-9913)Nationality: French, web site: <https://homepages.laas.fr/lasserre>

- **CURRENT POSITION**

Directeur de Recherche emeritus,  
CNRS, LAAS, Toulouse,  
France

- **EDUCATION**

1984	HDR, Université Paul Sabatier, Toulouse, France
1978	PhD, Université Paul Sabatier, Toulouse, France
1976	MsC (Engineer): ENSIMAG, France

- **INTERNATIONAL RECOGNITION (honors, prizes)**

- Since 2000: Plenary – Semi-Plenary – Keynote Speaker – at more than 30 international conferences and workshops and several programs of Mathematical Institutes, including MSRI (Berkeley), IMA (Minneapolis), IPAM (UCLA), Oberwolfach (Germany), Chern Institute (China), BIRS (Banff, Canada & Oaxaca, Mexico), IMS (Singapore), IMUS (Sevilla), CIRM (Marseille), VIASM (Hanoi), IHP (Paris), AIM (Palo Alto)
- 2022 Speaker at the Mathematical Colloquium of CERMICS (Ecole des Ponts, Paris, France)
- 2021 Grand Prix INRIA-Académie des Sciences (INRIA and (french) Academy of Sciences)
- 2019 Simons CRM Professor: Centre de Recherche Mathématique, Montreal, Canada
- 2019 Distinguished Lecture at the 90th anniversary of the Mathematics Department of National University of Singapore (NUS)
- 2019 ISSAC'2019 conference Best paper Award (with Florent Bréhard and Mioara Joldes)
- 2018 Invited Speaker: International Congress of Mathematicians (ICM 2018, Rio de Janeiro, Brasil)
- 2017 Speaker at the Mathematical Colloquium of Charles University, Praha (Tcheky)
- 2015 L. Khachyan Prize (for lifetime achievement) (Optimization Society of INFORMS)
- 2015 John von Neumann Theory Prize (INFORMS Society)
- 2014 Laureate of an ERC-Advanced Grant (TAMING project)
- 2009 Lagrange Prize in Continuous Optimization (SIAM / MOS societies)
- 1985–1986 NSF research fellow: EECS Department, University of California at Berkeley, CA, USA
- 1978–1979 IRIA Post-Doc Fellowship: EECS Department, University of California at Berkeley, CA, USA

- **SUPERVISION:** 18 PhD students (1 on-going), 5 post-Docs (3 on-going).

- **SCIENTIFIC PRODUCTION:** <https://homepages.laas.fr/lasserre/drupal/content/appeared>.

- **5 MOST RELEVANT PAPERS (10 last years), Google Scholar Id: Mh8pC5sAAAAJ, h index: 56**

1. Lasserre, J. B. (2001). Global optimization with polynomials and the problem of moments. *SIAM Journal on optimization*, 11(3), 796-817. DOI: 10.1137/S1052623400366802
2. Lasserre, J. B. (2009). Moments, positive polynomials and their applications (Vol. 1). World Scientific. DOI: [10.1142/p665](https://doi.org/10.1142/p665)
3. Lasserre, J. B., Pauwels, E., & Putinar, M. (2022). The Christoffel–Darboux Kernel for Data Analysis (Vol. 38). Cambridge University Press. DOI: [10.1017/9781108937078](https://doi.org/10.1017/9781108937078)
4. Henrion, D., Lasserre, J. B., & Löfberg, J. (2009). GloptiPoly 3: moments, optimization and semidefinite programming. *Optimization Methods & Software*, 24(4-5), 761-779. <https://arxiv.org/abs/0709.2559> DOI: [10.1080/10556780802699201](https://doi.org/10.1080/10556780802699201)
5. Lasserre, J. B. (2006). Convergent SDP-relaxations in polynomial optimization with sparsity. *SIAM Journal on optimization*, 17(3), 822-843. <https://optimization-online.org/2006/04/1367> DOI: 10.1137/05064504X

- **EDITORIAL ACTIVITIES**

- Associate Editor of the journals: 1992-1994 *International Journal of Production Research*, 1992–1997 *IEEE Transactions on Automatic Control*, 1997–2002 *SIAM Journal on Control and Optimization*, 1998–2002 *AUTOMATICA*, 1996–2002 *Investigación Operativa*, 2004–2011 *RAIRO Operations Research*, 2006–2011 *SIAM Journal on Optimization*, 2015–2018 *Mathematics of Operations Research*, 2016–2019 *SIAM Journal on Applied Algebra & Geometry*

- **COLLABORATIONS:** University of New South Wales, Sydney; University of Southern Australia, Adelaide; University of Queensland, Brisbane; Math. Dept., CINVESTAV, IPN, Mexico; CWI, Amsterdam; Tilburg University; Math. Dept. National University of Singapore; Math. Dept, University of California at Santa Barbara, CA; Math. Dept, Texas, A&M University, Harris School of Public Policy, University of Chicago; Electrical Engineering Dept., Harvard University; Dalat University & Vietnam Institute of Advanced Studies in Mathematics

- **TEACHING ACTIVITIES (current or planned):** various courses on moment and polynomial optimization