

## BRIEF CURRICULUM VITAE OF HÉCTOR J. SUSSMANN

Born in Buenos Aires, Argentina, April 13, 1946.

### Education:

- Ph.D. in Mathematics, September 1969, Courant Institute of Mathematical Sciences, New York University.
- Licenciado en Matemáticas, University of Buenos Aires, Argentina, December 1966.

### Full-time positions:

- Rutgers University, Department of Mathematics (Assistant Professor, 1972-74; Associate Professor, 1974-78, Professor I, 1978-83; Professor II, 1983-).
- Department of Mathematics, University of Chicago (Dickson Instructor, 1971-72).
- Division of Engineering and Applied Mathematics, Harvard University (Research Fellow in Decision and Control, 1970-71).
- Department of Mathematics, City College of the City University of New York (Lecturer, 1969-70).

### Selected Visiting Positions

- Visiting Professor, University of Padova, Department of Pure and Applied Mathematics, Padova, Italy. September 4 to November 26, 2004.
- Visitor, the Mittag-Leffler Institute, Sweden. January 15 to June 15, 2003. Participant in the Institute's Spring 2003 program on "Mathematical control and systems theory," and member of the program's organizing committee.
- Weston Visiting Professor, The Weizmann Institute of Science, Rehovot, Israel, October 1, 2000 to January 15, 2001.
- University of Groningen, Groningen, The Netherlands, (Johann Bernoulli Distinguished Visiting Professor, March 1-15 and May 15 to July 31, 1999).
- Institut Henri Poincaré, Centre Émile Borel Paris, France (Visiting Professor, January-June 1998).
- University of Minnesota, Institute for Mathematics and its Applications (IMA), Sept. 1992-July 1993. (Visiting professor and organizer of the Control Theory Year.)
- Université de Paris VI, Jussieu (Visiting Professor, February-July, 1989).
- Centre de Recherche de Mathématiques de la Décision (CEREMADE), Université de Paris IX, Dauphine (Visiting Professor, Spring 1978, May-June 1980, and Spring 1982).

### Awards:

- Fellow of the IEEE, elected in 1995.
- Award for Outstanding IEEE Control Systems Magazine Paper of the Year, for the paper "300 years of optimal control: from the brachystochrone to the maximum principle," coauthored with J. C. Willems, published in the June 1997 issue of the journal (December 1998).
- The article "Controllability of nonlinear systems," by H. J. Sussmann and V. Jurdjevic (*J. Diff. Equations* **12** (1972), pp. 95-116), was selected by the IEEE Control Systems Society to be one of the 25 papers included in a volume on the "25 Major Impact Control Papers of the Century," published by the IEEE in the year 2000.
- The W. T. and Idalia Reid Prize, awarded by the Society for Industrial and Applied Mathematics for research in differential equations and control theory, June 2007.

**Service to the profession (selected items):**

- Member of the Council of the American Mathematical Society, 1982-1984.
- Chairman, Organizing Committee of the 1992-1993 Special Year in Control Theory at the Institute for Mathematics and its Applications, University of Minnesota.
- Organizer, American Mathematical Society (AMS) 1997 Summer Research Institute (SRI), on “Differential Geometry and Control,” held at the University of Colorado at Boulder, from June 30 to July 18, 1997.
- Organizer, Short course on Nonlinear Control Theory, 1999 Winter meeting of the American Mathematical Society (AMS), San Antonio, Texas, January 13-16, 1999. (The course consisted of six lectures, one by the organizer and five by other mathematicians.)
- Co-organizer (together with A. Lindquist and C. I. Byrnes, and C. M. Martin) of the Spring 2003 program on “Mathematical control and systems theory” at the Mittag-Leffler Institute, Sweden, January 15 to June 15, 2003.
- Editorial positions:
  - Associate Editor, *SIAM Journal on Control and Optimization*, 1978-1989.
  - Associate Editor, *Systems and Control Letters*, 1980-84.
  - Regional Co-managing Editor, *Acta Applicandæ Mathematicæ*, 1982- .
  - Associate Editor, *Mathematics of Control, Systems and Signals*, 1987-1990.
  - Associate Editor, *Forum Mathematicum*, 1990- .
  - Associate Editor, *Neural Networks*, 1993-95.

**Selected invited talks:**

- *Selected plenary lectures at national and international conferences:*
  - 45-minute lecture on “Analytic stratifications and control theory,” International Congress of Mathematicians, Helsinki, Finland, August 22, 1978.
  - Plenary lecture, 1991 Winter meeting of the American Mathematical Society, San Francisco, January 17, 1991. Title: “Recent results and open problems in deterministic nonlinear control.”
  - Plenary lecture, SIAM Control Conference, Minneapolis, MA, September 1992.
  - Plenary lecture, IEEE Conference on Decision and Control (CDC), New Orleans, December 1995.
  - Plenary lecture, Annual meeting of the French Mathematical Society, held at the Institut Henri Poincaré in Paris, France, June 17, 2000.
  - Plenary lecture at the 24th Brazilian Colloquium of Mathematics, held at the IMPA, in Rio de Janeiro, Brazil, July 27 to August 1, 2003.