Keynote Addresses

- "Quantum Parallelism and the Exact Simulation of Physical Systems," Computing Frontiers, Ischia, Italy, April 14, 2004.

- "Quantum Information: a Glimpse at the Strange and Intriguing Future of Information," Boole Lecture, University College Cork (Ireland), February 16, 2007.

Tutorials and Invited Talks

1. "Grid Computing for Solving Large Structural Biology Problems," *VECPAR2002 - Vector and Parallel Computing,* Porto, Portugal, June 26-28, 2002.

2. "Internet Process Coordination with Software Agents," *ISCC 2002 - Int. Symp. on Computers and Communication*, Taormina, Italy, July 1-4, 2002.

3. "Quantum Computing and Quantum Information Theory," *NATO Concurrent Computing Workshop* (Sinaia, Romania, July 5-10 2003).

4. "Introduction to Quantum Computing," *XVIII ISCIS - International Symposium on Computer and Information Sciences* (Antalya, Turkey, November 2003).

5. "Quantum Parallelism," *18th Annual ACM International Conference on Supercomputing* (St. Mallo, France, June 2004).

6. "The Promise of Quantum Computing. Quantum Parallelism" (tutorial open to all participants at IPDPS, Denver, April 2005).

7. "Quantum Computing and Quantum Communication," *5th Int. Information and Telecomunication Technologies Symp, I2TS* (Cuiaba, Brazil, December 2006)

8. "Cluster and Grid Computing for Solving Large Structural Biology Problems," ISPDC International Symposium on Parallel and Distributed Computing, Iasi-Romania, July 2002.

9. "The Challenges and the Promise of Quantum Parallelism," NATO Advanced Research Workshop, Sinaia, Romania, July, 2003.

10. "Quantum States and Quantum Measurements," NATO Advanced Research Workshop, Timisoara, Romania, September, 2005.

11. "Quantum Error Correcting Codes," NATO Advanced Research Workshop, Suceava, Romania, September 4-8, 2006.

12. "Cloud Computing," 7th IEEE Int. Conf on Research Challenges in Information Sciences (RCIS13), Sorbonne, Université Paris 1, May 29-31, 2013.

Talks

- Polytechnic Institute Bucharest, Romania 1966, 1967.

- Institute for Atomic Physics Bucharest, Romania, 1973, 1974.

- Joint Institute for Nuclear Research Dubna, USSR, 1976.

- GSI Darmstadt, Germany, September 1980.

- Technical Universit Darmstadt, Germany, September 1980.

- IBM T.J. Watson Research Center, 1985.

- IBM Poughkeepsie, 1985.

- INRIA-Paris, 1986.

- GSI Darmstadt, Germany, 1986.

- Technical University Darmstadt, Germany, 1986.

- Purdue University: The EE-CS Joint Seminar on Parallel Processing, February 1987.

- Purdue University: The EE-CS Joint Seminar on Distributed Computing, March 1987.

- Purdue University: The EE-CS Joint Seminar on Distributed Computing, February 1989.

- GSI Darmstadt, Germany, June 1989.

- Technical University Darmstadt, Germany, June 1989.

- IBM Research Heidelberg, Germany, June 1989.

- University of Mainz, Germany, June 1989.

- University of Crete, Greece, September 1990.

- University of Louisiana in Baton Rouge, November 1990.

- University of Kansas in Lawrence, January 1991.

- University of Missouri in Kansas City, January 1991.

- Kansas State University in Manhattan, January 1991.

- Hewlett Packard Co., Fort Collins Colorado, January 1991.

- Academia Sinica, Beijing, China, September 1991.

- University of Science and Technology of China, September 1991.

- Purdue University, September 1992.

- Caltech, Scalable I/O Initiative Workshop, January 1993.

- GSI Darmstadt, Germany, February 1993.

- Technical University Darmstadt, Germany, February 1993.

- Institute for Software Technology and Parallel Systems, Vienna, Austria, February 1993.

- University of Vienna, Austria, February 1993.

- Supercomputing Systems Division, Intel Corporation, June 1993.

- Institute of Mathematics, Academia Sinica, Beijing, China, August 1993.

- Institute of Information Sciences, Beijing, China, August 1993.

- Institute of Information Sciences, Xian, China, August 1993.

- Computer Sciences Department, Purdue University, January 1994.

- National Institute of Health, Washington DC, April 1994.

- Romanian Academy of Science, Institute for Nuclear Research, Bucharest, July 1994.

- Cornell University, Itaha, NY, October 1994.

- Institute for Physics and Nuclear Engineering, Bucharest, August 1996.

- Purdue University, October 1996.

- INRIA Paris, France, June 1998.

- University of Houston, April 1999.

- Berkeley National Laboratory, April 1999.

- IBM Research, Yorktown Heights, September 1999.

- University of Chicago, March 2000.

- INRIA, Paris, France, June 2000.

- University of Central Florida, March 2001.

- IRISA-INRIA, Rennes, France, June 2003.

- INRIA, Paris, France, June 2003.

- Institute for Physics and Nuclear Engineering, Bucharest, July 2003.

- University of Central Florida, October 2003.

- University of Central Florida, March 2005.

- Romanian Academy - Closed Session of the Informatics Section, March 20, 2005.

- Institute for Physics and Nuclear Engineering, Bucharest, Romania, March 25, 2005.

- Colorado State University, March 31, 2005.

- Abell Distinguished Lecture in Computer Engineering, Colorado State University, April 1, 2005.

- Purdue University, West Lafayette, IN, April 8, 2005.

- INRIA, Paris France, July 2005.

- College University Cork, Ireland, July 2005.

- UCF, Biology Seminar, September 2005.

- UCF, Electrical Engineering, September 2005.

- INRIA Paris, July 2006.

- Institute Polytechnique Paris, July 2006.

- Imperial College, London, July 2006.

- University of Volos, Greece, May 2008,

- Institute for Physics and Nuclear Engineering, Bucharest, Romania, May 2008.

- Middle East Technical University (METU) Ankara, Turkey, June 2010.

- Universidad Tecnica Federico Santa Maria, Valparaiso, Chile, May 2011.