

# **CURRICULUM VITAE**

of

*Enrique Carlos Segura*

March 2019

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## **PERSONAL DETAILS**

**Name:** Segura, Enrique Carlos

**Date and place of birth:** 11/21/59, Buenos Aires, Argentina

**Citizenship:** Argentine/Italian

**Address:** Lerma 141 "B", (1414) Buenos Aires, Argentina

**Phone:** +54 (11) 4776 4925 (home)

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## **EDUCATION**

- ***Ph. D. in Mathematics***, University of Buenos Aires, 1999
- ***M. Sc. in Mathematics***, University of Buenos Aires, 1988
- ***M. Sc. in Computer Science***, University of Buenos Aires, 1988
- ***Computer Scientist*** (B. Sc. in Computer Science), University of Buenos Aires, 1983
- ***Bachelor*** (High School), Colegio Nacional de Buenos Aires, University of Buenos Aires, 1977

## **MORE EDUCATION**

- 20 courses of *Philosophy* (about 77 % of the *Licenciatura* in Philosophy), Faculty of Philosophy and Humanities, University of Buenos Aires, (1984-1986)
  - *Vision in Robotics*, course at the *Escuela de Ciencias Informaticas* (ECI'94), Department of Computer Science, University of Buenos Aires, July 1994.
  - *Heuristic search, connectionist search*, graduate course at the Universitat Politècnica de Catalunya, Spain, 1996.
  - *Advanced robot programming*, graduate course at the Universitat Politècnica de Catalunya, Spain, 1996.
  - *Mathematical and Computational Techniques for Function Approximation: Neural Network Approaches*, course at the *Escuela de Ciencias Informaticas* (ECI'97), Department of Computer Science, University of Buenos Aires, July 1997.
  - *Music* (Professorship), Conservatorio Municipal de Musica "Manuel de Falla", 1982-1984.
- Maestri: Enrique Morera, Sebastian Piana, Perla Brugola.

**LANGUAGE SKILLS:** *English, French, Spanish, Italian, Latin.*

## CURRENT POSITIONS

- **Associate Professor**, Department of Computer Science, University of Buenos Aires.
- **Researcher** (Secretaría de Políticas Universitarias, Ministerio de Cultura y Educación, Argentina).
- **Researcher**, Computer Sciences Institute (ICC, UBA/CONICET)

## PROFESSIONAL EXPERIENCE

### a) RESEARCH

#### POSITIONS HELD

- **Researcher** (Secretaría de Políticas Universitarias, Ministerio de Cultura y Educación)  
**Category:** C (June 1994 – Aug. 1999), III (Aug. 1999 – July 2005), II (Aug. 2005 – present)
- **Researcher at the program** *Redes Neuronales Profundas: teoría y aplicaciones a procesamiento de imágenes, video y lenguaje natural* (UBACyT Scientific Program 2018-2020), Department of Computer Science, University of Buenos AiresJan (Jan. 2018 - present).
- **Director of the project** *Design of techniques for pattern recognition and feature extraction, with application to automatic classification of handwritten digits and melanoma recognition in dermatoscopic images* (UBACyT X177 Scientific Program 2012-2015), Department of Computer Science, University of Buenos Aires (Jul. 2012 – Mar. 2016).
- **Codirector of the project** *Signal/image processing and neural networks: theory and applications to compression, pattern recognition and learning models* (UBACyT X488 Scientific Program 2011-2014), Department of Computer Science, University of Buenos Aires (Jul. 2011 – July 2012).

- **Codirector of the project** *Integrating Wavelets and Neural Networks for developing theoretical models and applications in compression, pattern recognition and learning* (UBACyT X199 Scientific Program 2008-2010), Department of Computer Science, University of Buenos Aires (Jan. 2008 – Dec. 2010).
- **Codirector of the project** *Wavelets and Neural Networks: Integrated Approaches and Applications* (UBACyT X166 Scientific Program 2004-2007 and PICT 26001, Agencia Nacional de Promoción Científica y Tecnológica, 2005-2007), Department of Computer Science, University of Buenos Aires (Jan. 2004 – Dec. 2007)
- **Research Fellow**, School of Computing, Information Systems and Mathematics, South Bank University, London (May 2001 - March 2003)
- **Researcher at the program** *Procesamiento de Imágenes de Teledetección Generadas por radar de Apertura Sintética* (UBACyT X034, Scientific Program 2001-2003), Department of Computer Science, University of Buenos Aires, Jan. 2001 - Dec. 2003.
- **Researcher at the program** *Neural networks: a connectionist approach for task planning and trajectory generation* (UBACyT TW25, 1998-2000), Department of Computer Science, University of Buenos Aires, Jan. 1998 - Dec. 2000.
- **Project Leader of the program** *Motor control by neural networks and its application to robotic manipulators* (grant UBACyT EX157, 1995-1997), Department of Computer Science, University of Buenos Aires, Jan. 1995 - Dec. 1997.
- **Fellow of the Thalmann Program**, University of Buenos Aires, 15/1/96 - 15/4/96  
**Research area:** *Study and development of advanced techniques for complex systems control, by means of Neural Networks, Fuzzy Logic and Qualitative Reasoning*  
**Work Location:** Departamento de Ingeniería de Sistemas, Automática e Informática Industrial, Universitat Politècnica de Catalunya, Barcelona, Spain.
- **Fellow**, *Consejo Nacional de Investigaciones Científicas y Técnicas (National Scientific and Technical Research Council)*, May 1988 - March 1993  
**Research areas:** *Stochastic Multidimensional Processes, with applications in Combinatorial Optimisation and Neural Networks* (April 1990 - March 1993) and *Optimisation of Complex Combinatorial Problems, application to the Traveling*

*Salesman Problem and extension of applications in Image Processing* (May 1988 - March 1990).

**Work Locations:** until Sept. 1992, Faculty of Engineering, Univ. of Buenos Aires. After Sept. 1992, Div. de Aplicaciones Científicas, Centro de Cálculo Científico, Centro Atómico Constituyentes, Comisión Nacional de Energía Atómica (National Atomic Energy Agency).

## RESEARCH GRANTS OBTAINED

- UBACyT Scientific Programs 2018-2020 (Science and Technology Agency, University of Buenos Aires).

Project: *Redes Neuronales Profundas: teoría y aplicaciones a procesamiento de imágenes, video y lenguaje natural.*

- UBACyT X177 Scientific Programs 2012-2015 (Science and Technology Agency, University of Buenos Aires).

Project: *Design of techniques for pattern recognition and feature extraction, with application to automatic classification of handwritten digits and melanoma recognition in dermatoscopic images.*

- UBACyT X488 Scientific Programs 2011-2014 (Science and Technology Agency, University of Buenos Aires).

Project: *Signal/image processing and neural networks: theory and applications to compression, pattern recognition and learning models.*

- UBACyT X199 Scientific Programs 2008-2010 (Science and Technology Agency, University of Buenos Aires).

Project: *Integrating Wavelets and Neural Networks for developing theoretical models and applications in compression, pattern recognition and learning.*

- PICT 26001, Agencia Nacional de Promoción Científica y Tecnológica, 2005-2007.

Project: *Wavelets and Neural Networks: Integrated Approaches and Applications.*

- UBACyT X166 Scientific Programs 2004-2007 (Science and Technology Agency, University of Buenos Aires).

Project: *Wavelets and Neural Networks: integrated approaches and applications.*

- UBACyT TW25 (Science and Technology Agency, Univ. of Buenos Aires), 1998-2000.

Research project: *Neural networks: a connectionist approach for task planning and trajectory generation.*

- UBACyT EX157 (Science and Technology Agency, Univ. of Buenos Aires), 1995-1997.

Research project: *Motor control by neural networks and its application to robotic manipulators.*

## **EVALUATIONS, EXAMINATIONS, REVIEWING WORK,**

- External reviewer of research grant applications for the “Fondo María Viñas 2016” (FMV 2016) of the National Research and Innovation Agency of Uruguay (ANII).
- Member of the Evaluation Board Nr. 5 for Engineering, Environmental Science and Habitat, Secretaría de Ciencia y Técnica, Universidad de Buenos Aires, Oct. 2015 – present.
- Member of the Program Committee of the XVII Iberoamerican Congress on Pattern Recognition (CIARP 2012), Buenos Aires, September 2012.
- Member of the Reviewing Committee of the V Iberoamerican Congress of Electrical Engineering Students (V CIBELEC 2012) , Merida, May 2012.
- Member of the Reviewing Commission of the Nacional Agency for Science and Technology for the PICT program, in the area of Information and Communication Technologies, years 2003 and 2004.
- Paper Reviewer for *Neural Processing Letters*, *IEEE Transactions on Fuzzy Systems*, *JAIIO (Argentine Conference on Computing and Operations Research)*, *CLEI (Conferencia Latinoamericana de Informática)* and others.
- External reviewer of research grant applications for the UBACyT program (Univ. of Buenos Aires) and the PICT program (National Agency for Science and Technology).
- External referee for the academic assessment of the Artificial Intelligence Laboratory (LIA), Instituto Tecnológico de Buenos Aires (ITBA), 2003.
- Member of the examination board in about 40 theses (*Licenciatura*, Master, Ph.D.) in the Universities of Buenos Aires, La Plata and Centro de la Provincia de Buenos Aires, from 1994 to present.
- Member of the Committee for the Second Competition for Peruilh Fellowships for Ph. D. Students in Engineering (Faculty of Engineering, University of Buenos Aires), 2005.

- Member of the examination board for the position of Adjoint Professor at the Department of Computer Science, Faculty of Engineering, University of Buenos Aires, in the area Software for Production Systems, 2006.

## **b) TEACHING**

### **POSITIONS HELD**

- *Associate Professor*, Department of Computer Science, University of Buenos Aires, September 2017 - present.
- *Assistant Professor*, Department of Computer Science, University of Buenos Aires, April 1994 – September 2017.
- *Professor* at the M. Sc. programme in Data Mining and Knowledge Discovery, Facultad de Ciencias Exactas y Naturales, Univ. of Buenos Aires, July 2005 – Dec. 2005).
- *Lecturer* (part time), School of Computing, Information Systems and Mathematics, South Bank University, London, September 2002 – March 2003.
- *Visiting Lecturer*, University of Westminster, London, October 2002 - February 2003.
- *Teaching Assistant*, Department of Computer Science, University of Buenos Aires, March 1993 - April 1994.
- *Teaching Assistant*, Department of Electrical Engineering, University of Buenos Aires, Aug. 1990 - March 1993.

### **THESIS SUPERVISION**

- Adviser of several graduate students (Licenciatura, M.Sc. and Ph.D.) at the Departments of Computer Science and Electronic Engineering, University of Buenos Aires, from 1997 to present.
- Currently, adviser of three Ph. D. students and two M. Sc. students at the Department of Computer Science, University of Buenos Aires

## **OTHER ACADEMIC ACTIVITIES**

- Member of the Board for Professorships of Middle and High Education, Department of Computer Science, University of Buenos Aires (2011 onwards).
  - Member of the academic committee of the M. Sc. programme in *Data Mining and Knowledge Discovery*, Department of Computer Science, University of Buenos Aires (2005 to date).
  - Collaborator in the design and implementation of the above mentioned M. Sc. prog.
  - Chairman of the Program Committee of the 17th School of Computer Sciences (ECI'2003), University of Buenos Aires, July 2003.
  - Member of the Program Committee of the 20th School of Computer Sciences (ECI'2006), University of Buenos Aires, July 2006.

### **c) MANAGEMENT**

- **Director**, Department of Computer Science, University of Buenos Aires, Dec. 2003 – Dec. 2005.

#### **d) INDUSTRIAL EXPERIENCE**

- **Company:** *Advisers S.A.* (system consulting), March 1988 - Feb. 1991

Positions: Project Leader

## Analyst-Programmer

Responsibilities: design, development and setup of software applications for the following clients:

- As a Project Leader: Molinos Río de la Plata S. A. (Bunge & Born Group)
  - As analyst-programmer: La Oxígena S. A. (L'Air Liquide Group)  
Automóvil Club Argentino

- **Company:** *CEDRO Foundation* (Center for studies on drug dependence), Nov. 1988

- March 1989

Responsibility: statistical data analysis

- **Company:** *Instituto Juncal* (private teaching institute), March - Dec. 1987

Position: Teacher

## **COMPUTING AND PROGRAMMING SKILLS**

**Programming languages:** C, Fortran, Basic, Cobol, Cobol / CICS, Cobol / IMS

**Operating Systems:** Unix, MS-DOS, Windows, MVS/DOS

**Equipments:** IBM 43XX, VAX 750, MicroVAX II, SUN, IBM PC/PS

**Software applications:** LaTeX, MS Office (Access, Power Point, Excell, Word), SPSS (Statistical Package for Social Sciences), MATLAB

**Other:** Internet, HTML

## **AWARDS**

- 1st. prize in the Poster Competition of the Computational Intelligence Summer School (EVIC 2007), Santiago, Chile, to the article "A neural network-based approach for pattern recognition with the ability to manage and explain ambiguous cases", authors: L. M. Seijas and E. C. Segura (2007).
- Special Mention in the essay contest *Reflexiones sobre la situación de la Cultura y el Arte en la Argentina de fin de siglo* (Reflections on Culture and Arts in Argentina at the end of XX century), Fundación Aiglé, 1997.
- Prize to Scientific and Technical Production, University of Buenos Aires, 1994.
- Prize to Scientific and Technical Production, University of Buenos Aires, 1993.

## **PUBLICATIONS**

### **a) REFEREED PAPERS**

- G. Lado and E. C. Segura; *Gradient omission descent is a minimization algorithm*; Int. J. on Soft Computing, Artificial Intelligence and Applications, 8(1):37-45 (2019).

- G. Lado and E. C. Segura; *Effective vector representations for variable length symbol sequences*; Proc. Fourth International Conference on Artificial Intelligence and Applications (AIAP-2017), Vienna, pp. 27-34 (2017).
- E. C. Segura; *Information, Stability and Learning Complexity in Associative Memories*; Int. J. Management Sciences and Operations Research, 1(1): 49-53 (2016).
- E. C. Segura; *On the Approximation of the Inverse Dynamics of a Robotic Manipulator by a Neural Network Trained with a Stochastic Learning Algorithm*; INGE CUC, 9(2): 39-43 (2014).
- L. M. Seijas and E. C. Segura; *A Wavelet-based Descriptor for Handwritten Numeral Classification*; Proc. XIII Int. Conf. on Frontiers in Handwriting Recognition (ICFHR 2012), Bari, 649-654 (2012).
- G. D. Corti Bielsa, E. C. Segura and W. M. Farina; *Modeling information transfer in honey bees*; Proc. Apimondia – XXXXII International Apicultural Congress (poster), Buenos Aires (2011).
- A. D'Onofrio, J. P. Boulanger and E. C. Segura; *CHAC: A weather pattern classification system for regional climate downscaling of daily precipitation*; Climatic Change 98:405-427 (2010).
- E. C. Segura; *Associative Memory in a Continuous Metric Space: A Theoretical Foundation* ; Computacion & Sistemas, 13 (2): 161-186 (2009).
- L. M. Seijas and E. C. Segura; *Detection of Ambiguous Patterns Using SVMs: Application to Handwritten Numeral Recognition*; Lecture Notes on Computer Science, 5702:840-847 (Proc. 13th Int. Conf. on Computer Analysis of Images and Patterns), Springer-Verlag (2009).
- V. C. Estrada, A. Nakao and E. C. Segura; *Classifying computer session data using self-organizing maps*; Proc. Int. Conf. on Computational Intelligence and Security (CIS 2009), Beijing (2009).

- A. D'Onofrio, J. P. Boulanger and E. C. Segura; *A weather pattern classification system for regional climate downscaling of daily precipitation over Argentina*; Proceedings 9th ICSHMO Conference, Melbourne (2009).
- E. C. Segura; *Infinite Dimensional Associative Memories: Foundations (with Theorems)*; Res. Comp. Science, 28: 15-28 (2007).
- E. C. Segura; *Topologically Continuous Associative Memory: a Theoretical Foundation*; Proc. III Indian Int. Conf. on Artificial Intelligence, Pune, India (2007)
- L. M. Seijas and E. C. Segura; *Detection of ambiguous patterns in a SOM based recognition system: application to handwritten numeral classification*; Proc. 6th Int. Workshop on Self-Organizing Maps (WSOM 2007, Bielefeld) (2007).
- J.-P. Boulanger, F. Martínez, O. Penalba and E. C. Segura; *Neural network based daily precipitation generator (NNGEN-P)*; Climate Dynamics, 28 (2-3): 307-324 (2007).
- J.-P. Boulanger, F. Martínez and E. C. Segura; *Projection of future climate change conditions using IPCC simulations, Neural Networks and Bayesian statistics. Part 2: Precipitation mean state and seasonal cycle in South America*; Climate Dynamics, 28: 255-271 (2007).
- E. C. Segura; *Optimisation with Simulated Annealing through Regularisation of the Target Function*, Proc. XII Congreso Arg. de Ciencias de la Computación, Potrero de los Funes (2006).
- J.-P. Boulanger, F. Martínez and E. C. Segura; *Projection of future climate change conditions using IPCC simulations, Neural Networks and Bayesian statistics. Part 1: Temperature mean state and seasonal cycle in South America*; Climate Dynamics, 27 (2-3): 233-259 (2006).
- E. C. Segura and Robin Whitty; *Modelling Human Intelligence: a Learning Algorithm*, Lecture Notes on Computer Science, 3789:1-10 (MICAI'05: Advances in Artificial Intelligence), Springer-Verlag (2005).

- E. C. Segura; *Evolutionary Computation with Simulated Annealing: Conditions for Optimal Equilibrium Distribution*, Journal of Computer Science and Technology, 5 (4): 178-182 (2005).
- L. M. Seijas and E. C. Segura; *A Hybrid Neural Network Model for Pattern Recognition: Solving Ambiguities and Explaining Answers*, Proc. II Argentine Symposium on Information Systems (ASIS) 2005 – 34 JAIIO, Rosario, Argentina (2005).
- E. C. Segura and R. Whitty; *A Learning Mechanism that can Compute and its Implications for Modelling Human Intelligence*, Proc. XX Workshop Eur. Soc. for the Study of Cognitive Systems, London (2005).
- L. M. Seijas and E. C. Segura; *Modelos Conexionistas Auto- organizados y su Aplicación en Reconocimiento de Patrones*, Proc. VII WICC 2005, Rio IV, Argentina (2005).
- E. C. Segura; *Associative memories for pedestrians: some variations on a theme by Hopfield*, Cognitive Systems, 6 (1): 55-68 (2003).
- L. M. Seijas and E. C. Segura; *Un clasificador neuronal que explica sus respuestas: aplicación al reconocimiento de dígitos manuscritos*; Proc. IX CACIC 2003, La Plata, Argentina (2003).
- E. C. Segura and R. P. J. Perazzo; *Biologically Plausible Associative Memory: Continuous Unit Response + Stochastic Dynamics*, Neural Processing Letters 16 (3): 243-257 (2002).
- E. C. Segura; *Associative Memories for pedestrians: some variations on a theme by Hopfield*, Proceedings of the Special Workshop on Multidisciplinary Aspects of Learning (abstract), Paris (2002).
- E. C. Segura; *Associative Memories: randomness, continuity and biological plausibility*, Proceedings CACIC 2001, El Calafate, Argentina (2001).
- E. C. Segura and R. P. J. Perazzo; *Associative Memories in Infinite Dimensional spaces*; Neural Processing Letters, 12 (2): 129-144 (2000).

- B. Cernuschi-Frias and E. C. Segura; *On learning mean values in Hopfield associative memories trained with noisy examples using the Hebb rule*; Proc. IEEE-INNS-ENNS Int. Joint. Conf. On Neural Networks, Como, Italia, 4: 23-27 (2000).
  
- E. C. Segura; *Memorias asociativas en espacios de dimensión infinita*; Ph. D. Thesis in Mathematics, University of Buenos Aires (1999).
  
- E. C. Segura; *Aproximación de la dinámica inversa de un manipulador robótico mediante un algoritmo estocástico de aprendizaje en redes neuronales*; in F. Levstein and C. Olmos (Eds.), *Trabajos de Matemática* (Proc. II Int. Workshop on (Semi)numerical Techniques in Polynomial Equation Solving, TERA '97), Córdoba, UNC, pp. 106-113 (1997).
  
- B. Cernuschi Frías and E. C. Segura; *Concept learning in Hopfield associative memories trained with noisy examples using the Hebb rule*; Proc. VII RPIC, San Juan (1997).
  
- E. C. Segura; *A non parametric method for video camera calibration using a neural network*; Proc. Int. Symp. Multi-Technology Information Processing, Hsinchu, Taiwan (1996).
  
- A. B. Martínez, R. M. Planas and E. C. Segura; *Disposición anular de cámaras sobre un robot móvil*; in Proc. XVII Jornadas de Automática Santander 96, Santander, Spain (1996).
  
- E. C. Segura; *On the relation between entropy, information and stability in Hopfield memories*; in *Memorias. XX Conferencia Latinoamericana de Informática*, México, Limusa, pp. 333-343 (1994).
  
- E. C. Segura; *Training a Hopfield memory with noisy examples*; in Proc. IEEE ICNN, San Francisco, CA, pp. 1075-1080 (1993).
  
- B. Cernuschi Frias and E. C. Segura; *A neural network approach for position invariant pattern classification*; in Annals IV Reunión de Trabajo en Procesamiento de la Información y Control (RPIC'91), Buenos Aires, pp. 257-262 (1991).

- E. C. Segura and B. Cernuschi Frias; *A method for the approximation of continuous functions using Simulated Annealing*; in Proc. II Makuhari International Conference on High Technology, Chiba, Japan, pp. 143-146 (1991).
- E. C. Segura and B. Cernuschi Frias; *Pattern classification using neural networks, with invariance under rotations, translations and scaling*; abstract in Proc. International Neural Network Conference, Paris (1990).
- B. Cernuschi Frias, A. Blumenkrans and E. C. Segura; *Reconocimiento de formas mediante coordenadas polares con invariancia a traslaciones, rotaciones y escalajes*; in Anales del III Simposio Brasileño de Computación Gráfica y Procesamiento de Imágenes, Gramado, Brazil, pp. 360-370 (1990).
- E. C. Segura and B. Cernuschi Frias; *Self-learning Simulated Annealing*; in Maureen Caudill (Ed.), *IJCNN-90-WASH-DC*, Washington DC, Vol. 1, pp. 463-467, Lawrence Erlbaum Associates, Pub. (1990).
- R. García and E. C. Segura; *Síntesis de controles bang-bang utilizando Simulated Annealing*; in Annals RPI'89, La Plata (1989).
- A. Blumenkrans and E. C. Segura; *Aplicación de modelos estadísticos al procesamiento y análisis de imágenes*; in Annals III Reunión de Trabajo en Procesamiento de la Información (RPI'89), La Plata (1989).
- B. Cernuschi Frias, N. Barraza, A. Blumenkrans and E. C. Segura; *Modelos estocásticos y su aplicación en optimización combinatoria, análisis de imágenes y cambios de fase*; in Actas II Laboratorio Matemático de Invierno, Mendoza, pp. 147-186 (1988).
- E. C. Segura; *Simulated annealing y optimizacion estocastica para problemas combinatorios complejos*; M. Sc. Thesis in Mathematics, Buenos Aires (1987).
- G. Chalkoff and E. C. Segura; *Sistema procesador de la palabra*; M. Sc. Thesis in Computer Science, Buenos Aires (1983).

## b) OTHER PUBLICATIONS

## **ESSAY**

- E. C. Segura; *Los matemáticos, su oficio y su saber. Entre la armonía de las esferas y el arrebato inspirador* (*Mathematicians, their craft and their knowledge. Between the harmony of the spheres and the inspired rapture*); Ciencia e Investigación, 60 (1): 51-56 (2010).
- E. C. Segura; *Racionales e Irracionales, Apolo y Dionisos. De Pitágoras a J. S. Bach* (*Rationals and Irrationals, Apollo and Dionysos. From Pithagoras to J. S. Bach*); Ciencia e Investigación, 59 (3): 46-49 (2010).
- E. C. Segura; *Those Golems, our Golems*, en "Proyecto Golem 2003-5764 / Buenos Aires-Praga", pp. 110-112, 322-324, Buenos Aires, EUDEBA, 2005.
- E. C. Segura; *La teoría del mercado de valores culturales y el argentinismo* (Theory of culture market and argentinism); Buenos Aires, Grupo Editor Latinoamericano, 1998.

## **POETRY**

- E. C. Segura; in *Non invecchiare nel tuo labirinto*; Buenos Aires, author's edition, 1999.

## **CONFERENCES, MEETINGS, PANELS**

- *XIII International Conference on Frontiers in Handwriting Recognition (ICFHR 2012)*, Bari, 2012.
- *XXXXII Apimondia – International Apicultural Congress*, Buenos Aires, 2011
- *II Joint Meeting on Neurosciences*, Huerta Grande, Córdoba, oct. 2010.
- *9th International Conference on Southern Hemisphere Meteorology and Oceanography (9th ICSHMO)*, Melbourne, aug. 2009.
- *Escuela de Ciencias de las Imágenes (ECIMAG 2008)*, Department of Computer Science, University of Buenos Aires, Buenos Aires, aug. 2008.

- Speaker at the Workshop *Neurosciences of Learning and Memory*, Instituto de Biología y Medicina Experimental (IByME, CONICET) and University of Buenos Aires, aug. 2007.
- Member of the panel *The Golem as a Metaphor in Computer Science*, in the meetings of the Golem Project 2003-5764 Buenos Aires-Praga, National Museum of Fine Arts, Buenos Aires, Oct. 2003.
- *Special Workshop on Multidisciplinary Aspects of Learning*, Paris, Jan. 17-19, 2002.
- Member of the panel *Mathematics and the other Natural Sciences*, MateBaires 2000, Department of Mathematics, University of Buenos Aires, Dec. 2000.
- *II Int. Workshop on (Semi)numerical Techniques in Polynomial Equation Solving (TERA'97)*, FAMAF, Córdoba, Sept. 4 - 6, 1997.
- Member of the panel *Biology of Knowledge: the Ego and its Brain*, in the meetings of “Subject and Knowledge: Interdisciplinary Workshop on Psychology of Knowledge”, University of Belgrano, October 12, 1994.
- *XX Conferencia Latinoamericana de Informática (CLEI'94)*, México, Sept. 19 - 23, 1994.
- *I Argentine Workshop on Theoretical Topics of Artificial Intelligence (ATIA'94)*. Facultad de Ciencias Exactas y Naturales, Buenos Aires, April 7 - 8, 1994.
- *Natural sciences, behavioural sciences: towards and from the mind*; symposium organised by the University of Belgrano, 1993.
- *XIII National Symposium on Automatic Control*; organised by the Argentine Automatic Control Association; Buenos Aires, Sept. 14 - 18, 1992.
- *IV Workshop on Information Processing and Control (RPIC'91)*, Comisión Nacional de Energía Atómica (National Atomic Energy Agency), Buenos Aires, Nov. 18 - 22, 1991.

- *III Workshop on Information Processing (RPI'89)*, National University of La Plata, La Plata, July 24 - 28, 1989.

- *II Brazilian Symposium on Graphic Computing and Image Processing* (SIBGRAPI'89), Aguas de Lindóia, Brazil, April 26 - 28, 1989.

- *New Developments in Software and Hardware for Computational Physics*; organised by the Comisión Nacional de Energía Atómica (National Atomic Energy Agency), at the Escuela Superior Latinoamericana de Informática (ESLAI), Parque Pereyra Iraola, La Plata, Nov. 28 - Dec. 2, 1988.

- *II Laboratorio Matemático de Invierno (Non linear control systems)*; Centro Regional de Investigaciones Científicas y Tecnológicas (CONICET - National University of Cuyo), Mendoza, Aug. 29 - Sept. 10, 1988.