

## **CURRICULUM VITAE**

Alfredo Germani received the Doctor Laurea degree *summa cum laude* in Physics in 1972 and the Postdoctoral Degree in Systems and Control Theory in 1974, both from the University "La Sapienza" of Rome. From 1974 to 1975 he held a Post Doc Position at the CSSCCA -CNR within the Institute of Automatica of the Rome University. From December 1975 to June 1986, he worked as a Researcher at the "Istituto di Analisi dei Sistemi e Informatica" (IASI-CNR). In 1978 and 1979, he was at the Department of System Science at the University of California at Los Angeles, (UCLA), as a Visiting Scholar. From 1986 to 1987 he was Professor of Automatic Control at the University of Calabria. From 1987 he is Full Professor of System Theory at the University of L'Aquila, Italy. His educational activity is devoted to the courses of: System Theory; Systems Identification and Data Analysis; Nonlinear, Stochastic and Optimal Control Theory, Modeling and Control of Environmental Systems. He has published more than two hundred ten research papers in books, international journals and refereed conference proceedings in the fields of nonlinear systems, distributed systems, delay systems, finitely additive white noise theory, approximation theory, optimal polynomial filtering for nongaussian systems, image processing and restoring, mathematical modeling for biological processes, Positive Systems. He has been Chairman of the IFIP Working Conference on Stochastic Modeling and Filtering, held in Rome in 1984. Since 1986 he has been Research Associate of System and Control Theory at the IASI-CNR, in Rome. In '89-'92 he has been Chairperson of the School of Electronic Engineering of University of L'Aquila. In '95-'98 he has been responsible of the Control Section of the TEMPUS TACIS Program for cooperation between the University of L'Aquila and University of Almaty, Kazakhstan. Since 1995 to 2000 he has been Head of the Department of Electrical Engineering of University of L'Aquila, and from 1996 up to 2007 he has been Coordinator of PhD School in Electronics at the same University. In July 2006 he was the Chairperson of the ICP of the VI IFAC Workshop on "Time-Delay Systems", held in L'Aquila. Since 2007 he is in the Executive Committees of the Excellence Center "DEWS" and of the Engineering College of the University of L'Aquila. Since 2011 to June 2017 he was in the Committee for evaluation of Spin Off proposals of the University of L'Aquila. In 2012-2014 he was the President of the National Committee for the Scientific evaluation of Professors candidates.

## **PROFESSIONAL EXPERIENCE.**

- 1/11/1987-present, Full Professor, Automatic Control and Robotics (ING-INF/04), Università dell'Aquila.
- 1/1/1987- present, Research Associate at "Istituto di Analisi dei Sistemi e Informatica" (IASI-CNR) of Rome.
- 18/6/1986-30/10/1987, Full Professor, Automatic Control, Università della Calabria.
- 15/12/1975-17/6/1986, Researcher, IASI-CNR, Rome.
- 18/2/1978- 10/5/1979, Visiting Scholar at Dept. of System Sciences at the University of California at Los Angeles, (UCLA), U.S.A.
- 10/12/1973-10/12/1975, CNR Research Fellow, Istituto di Automatica , Università di Roma, La Sapienza.

## **ACADEMIC ACTIVITY:**

- 2007-2008, President of the Executive Committee for the second-level Engineering Master: Metodi di Ottimizzazione e Data Mining.
- 2007-2010, Member of the Executive Committee of the Engineering Faculty of the University of L'Aquila.
- 2001-2003, Member of the Committee of the Research Center of Excellence, "DEWS", of the University of L'Aquila.

- 1996-2007, President of the PhD School in Electrical and Information Engineering of the DIEL, L'Aquila.
- 2001, President of the Committee for the Institution of the new Laurea Degree in "Ingegneria Informatica e Automatica" at the University of L'Aquila.
- 1995-2000, Head of the Electrical Engineering Department.
- 1991-1994, Chairman of the School of Electronic Engineering.
- 1995-1998, In Charge of the Management for the Control Section of the TEMPUS-TACIS Program for cooperation with the Technical University of Almaty, Kazakhstan.

## RESEARCH AREAS:

- FILTERING THEORY
- STOCHASTIC CONTROL
- NONLINEAR CONTROL SYSTEMS
- DELAY SYSTEMS
- APPROXIMATION THEORY
- IMAGE PROCESSING
- MODELLING OF BIOLOGICAL PROCESSES
- POSITIVE SYSTEMS

## JOURNAL PAPERS

- 89 Cacace F, Conte F, Germani A.(2017) Output Transformation and Separation Results for Feedback Linearisable Delay Systems.(2017) International Journal of Control, pp.1-16. Article in Press. Doi:10.1080/00207179.2017.1293848
- 88 Cacace,F.,Conte,F.,Germani,A. Palombo,G. (2017)Feedback Quadratic Filtering. Automatica, 82.pp. 158-164. doi: 10.1016/j.automatica.2017.04.046
- 87 Cacace,F.,Conte,F.,Germani,A. Palombo,G. (2017). Joint State Estimation and Delay Identification for Nonlinear Systems with Delayed Measurements. IEEE Transation on Automatic Control, 62(9). art. no. 7890394, pp. 4848-4854.doi: 10.1109/TAC.2017.2689503
- 86 Cacace F.,Germani A. (2017). Output Feedback Control of Linear Systems with Input, State and Output Delays by Chain of Predictors. Automatica 85, pp. 455-461. doi:10.1016/j.automatica.2017.08.013
- 85 Borri Alessandro, Cacace Filippo, De Gaetano Andrea, Germani Alfredo, Manes Costanzo, Palumbo Pasquale, Panunzi Simona, Pepe Pierdomenico (2017). Luenberger-like Observers for Nonlinear Time-Delay Systems with Application to the Artificial Pancreas. IEEE CONTROL SYSTEMS, vol. 37, ISSN: 1066-033X
- 84 Cacace Filippo, Conte Francesco, Germani Alfredo, Pepe Pierdomenico (2016). Stabilization of strict-feedback nonlinear systems with input delay using closed-loop predictors. INTERNATIONAL JOURNAL OF ROBUST AND NONLINEAR CONTROL, vol. 26, p. 3524-3540, ISSN: 1049-8923, doi: 10.1002/rnc.3517
- 83 Cacace,F.,Conte,F.,Germani, A.,(2016) Memoryless Approach to the LQ and LQG Problems with Variable Input Delay. (2016) IEEE Transaction on Automatic Control, 61(1), art. no 7097680, pp.216-221.doi: 10.1109/TAC2015.2427611
- 82 Cacace,F.,Conte,F.,Germani,A. Palombo, G.(2016), Optimal Control of Linear Systems with large and variable Input Delays. Systems and Control Letters, 89.pp.1-7. Doi: 10.1016/j.sysconle.2015.12.003

- 81 Cacace,F.,Conte,F.,Germani,A. Palombo, G.(2016), Delay Identification for a Class of Nonlinear Systems. *International Journal of Control*, 89(11). pp.2350-2359. Doi:10.1080/00207179.2016.1157898
- 80 Cacace,F.,Cusimano,V., Germani, A., Palumbo, P.(2016) A State Predictor for Continuous-time Stochastic Systems. *Systems and Control Letters*, 98, pp.37-43. Doi: 10.1016/j.sysconle.2016.10.004
- 79 Cacace F, Germani A, Manes C (2015). A new approach to design interval observers for linear systems. *IEEE TRANSACTIONS ON AUTOMATIC CONTROL*, vol. VOL. 60, p. 1665-1670, ISSN: 0018-9286, doi: 10.1109/TAC.2014.2359714
- 78 Cacace F, Conte F, Germani A (2015). Filtering Continuous-Time Linear Systems with Time-Varying Measurement Delay . *IEEE TRANSACTIONS ON AUTOMATIC CONTROL*, vol. VOL. 60, p. 1368-1373, ISSN: 0018-9286, doi: 10.1109/TAC.2014.2357138
- 77 Cacace F, Germani A, Manes C (2014). A Chain Observer for Nonlinear Systems with Multiple Time-Varying Measurement Delays. *SIAM JOURNAL ON CONTROL AND OPTIMIZATION*, vol. 52, p. 1862-1885, ISSN: 0363-0129, doi: 10.1137/120876472
- 76 Cacace F, Germani A, Manes C (2014). Exponential stabilization of linear systems with time-varying delayed state feedback via partial spectrum assignment. *SYSTEMS & CONTROL LETTERS*, vol. 69, p. 47-52, ISSN: 0167-6911, doi: 10.1016/j.sysconle.2014.04.007
- 75 Cacace Filippo, Germani Alfredo, Manes Costanzo (2014). Predictor-based control of linear systems with large and variable measurement delays. *INTERNATIONAL JOURNAL OF CONTROL*, vol. 87, p. 704-714, ISSN: 0020-7179, doi: 10.1080/00207179.2013.853322
- 74 Conte F, Germani A, Iannello G (2013). A Kalman Filter Approach for Denoising and Deblurring 3-D Microscopy Images. *IEEE TRANSACTIONS ON IMAGE PROCESSING*, vol. 22, p. 5306-5321, ISSN: 1057-7149, doi: 10.1109/TIP.2013.2284873
- 73 Fasano A., Germani A., Monteriù, A., (2013). REDUCED-ORDER QUADRATIC KALMAN-LIKE FILTERING OF NON-GAUSSIAN SYSTEMS. *IEEE TRANSACTIONS ON AUTOMATIC CONTROL*, vol. 58, p. 1744-1757, ISSN: 0018-9286, doi: 10.1109/TAC.2013.2246474
- 72 Conte F, Cusimano V, Germani A (2013). Robust planar tracking via a virtual measurement approach. *EUROPEAN JOURNAL OF CONTROL*, vol. 19, p. 146-156, ISSN: 0947-3580, doi: <http://dx.doi.org/10.1016/j.ejcon.2012.04.001>
- 71 Cacace F, Germani A, Palumbo P (2013). The observer follower filter: A new approach to nonlinear suboptimal filtering. *AUTOMATICA*, vol. 49, p. 548-553, ISSN: 0005-1098, doi: 10.1016/j.automatca.2012.11.023
- 70 Cacace F, Germani A, Manes C, Setola R (2012). A New Approach to the Internally Positive Representation of Linear MIMO Systems. *IEEE TRANSACTIONS ON AUTOMATIC CONTROL*, vol. 57, p. 119-134, ISSN: 0018-9286, doi: 10.1109/TAC.2011.2158170
- 69 Cacace F, Paci P, Cusimano V, Germani A, Farina L (2012). Stochastic Modeling of Expression Kinetics Identifies Messenger Half-Lives and Reveals Sequential Waves of Coordinated Transcription and Decay. *PLOS COMPUTATIONAL BIOLOGY*, ISSN: 1553-7358, doi: 10.1371/journal.pcbi.1002772
- 68 Cacace F, Germani A, Palumbo P (2012). The state observer as a tool for the estimation of gene expression. *JOURNAL OF MATHEMATICAL ANALYSIS AND APPLICATIONS*, vol. 391, p. 382-396, ISSN: 0022-247X, doi: 10.1016/j.jmaa.2012.02.026
- 67 Germani A, Manes C (2012). Two families of semiglobal state observers for analytic discrete-time systems. *AUTOMATICA*, vol. 48, p. 1707-1714, ISSN: 0005-1098, doi: 10.1016/j.automatca.2012.05.030
- 66 Cacace F, Cusimano V, Di Paola L, Germani A (2011). Observer-based techniques for the identification and analysis of avascular tumor growth. *MATHEMATICAL BIOSCIENCES*,

- vol. 234, p. 147-153, ISSN: 0025-5564, doi: 10.1016/j.mbs.2011.10.002
- 65 F. Cacace, Germani A, C.Manes (2010). An observer for a class of nonlinear systems with time varying observation delay. *SYSTEMS & CONTROL LETTERS*, vol. 59, p. 305-312, ISSN: 0167-6911, doi: 10.1016/j.sysconle.2010.03.005
- 64 Farina L, Germani A, Mavelli G, Palumbo P (2010). Identification of Regulatory Network Motifs from Gene Expression Data. *JOURNAL OF MATHEMATICAL MODELLING AND ALGORITHMS*, vol. 9, p. 233-245, ISSN: 1570-1166, doi: 10.1007/s10852-010-9137-x
- 63 Cacace F, Germani A, Manes C (2010). Observability through Delayed Measurements: a New Approach to State Observers Design. *INTERNATIONAL JOURNAL OF CONTROL*, vol. 83, p. 2395-2410, ISSN: 0020-7179, doi: <http://dx.doi.org/10.1080/00207179.2010.528035>
- 62 Germani A, C.Manes, P.Palumbo (2010). Representation of a Class of MIMO Systems via Internally Positive Realization. *EUROPEAN JOURNAL OF CONTROL*, vol. 16, p. 291-304, ISSN: 0947-3580, doi: 10.3166/EJC.16.291-304
- 61 Germani A, Manes C (2009). A Discrete-time Observer Based on the Polynomial Approximation of the Inverse Observability Map. *EUROPEAN JOURNAL OF CONTROL*, vol. 15, p. 143-156, ISSN: 0947-3580, doi: 10.3166/ejc.15.143-156
- 60 Germani A, Manes C, Palumbo P (2009). State estimation of stochastic systems with switching measurements : a polynomial approach. *INTERNATIONAL JOURNAL OF ROBUST AND NONLINEAR CONTROL*, vol. 19, p. 1632-1655, ISSN: 1049-8923, doi: 10.1002/rnc.1441
- 59 M. P. Di Ciccio, A. Germani, Pepe P (2008). A Filter for Nonlinear Systems by means of Deterministic Nonlinear Observers. *INTERNATIONAL JOURNAL OF PURE AND APPLIED MATHEMATICS*, vol. 49, p. 317-322, ISSN: 1311-8080
- 58 Germani A, Manes C, Palumbo P (2007). Filtering of Stochastic Nonlinear Differential Systems via a Carleman Approximation Approach. *IEEE TRANSACTIONS ON AUTOMATIC CONTROL*, vol. 52, p. 2166-2172, ISSN: 0018-9286, doi: 10.1109/TAC.2007.908347
- 57 Germani A, Manes C, Palumbo P, P. Pepe P (2006). A Robust Approximation Scheme for the LQG Control of an Undamped Flexible Beam with a Tip Mass. *EUROPEAN JOURNAL OF CONTROL*, vol. 12, p. 635-651, ISSN: 0947-3580, doi: 10.3166/ejc.12.635-651
- 56 Germani A, Manes C, Palumbo P, Sciandrone M (2006). A higher order method for the solution of nonlinear scalar equations. *JOURNAL OF OPTIMIZATION THEORY AND APPLICATIONS*, vol. 131, p. 347-364, ISSN: 0022-3239, doi: 10.1007/s10957-006-9154-0
- 55 Germani A, Manes C, Palumbo P (2006). Filtering for bimodal systems: the case of unknown switching statistics. *IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS. I, REGULAR PAPERS*, vol. 53, p. 1266-1277, ISSN: 1549-8328, doi: 10.1109/TCSI.2006.870542
- 54 A. Germani, Pepe P (2005). A State Observer for a Class of Nonlinear Systems with Multiple Discrete and Distributed Time Delays. *EUROPEAN JOURNAL OF CONTROL*, vol. 11, p. 196-205, ISSN: 0947-3580, doi: 10.3166/ejc.11.196-205
- 53 Germani A, Manes C, Palumbo P (2005). Polynomial Extended Kalman Filter. *IEEE TRANSACTIONS ON AUTOMATIC CONTROL*, vol. 50, p. 2059-2064, ISSN: 0018-9286, doi: 10.1109/TAC.2005.860256
- 52 Germani A, Manes C, Palumbo P (2004). Polynomial filtering for stochastic nongaussian descriptor systems. *IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS. I, REGULAR PAPERS*, vol. 51, p. 1561-1576, ISSN: 1549-8328, doi: 10.1109/TCSI.2004.831436
- 51 Germani A., Manes C, Pepe P. (2003). Input-Output Linearization with Delay Cancellation for Nonlinear Delay Systems: the Problem of the Internal Stability. *INTERNATIONAL*

- JOURNAL OF ROBUST AND NONLINEAR CONTROL, vol. 13, p. 909-937, ISSN: 1049-8923, doi: <http://dx.doi.org/10.1002/rnc.853>
- 50 Germani A, Manes C, Pepe P (2002). A new approach to state observation of nonlinear systems with delayed output. IEEE TRANSACTIONS ON AUTOMATIC CONTROL, vol. 47, p. 96-101, ISSN: 0018-9286, doi: 10.1109/9.981726
  - 49 Carravetta F, Germani A, Liptser R, Manes C (2002). Filtering of nonlinear stochastic feedback systems. SIAM JOURNAL ON CONTROL AND OPTIMIZATION, vol. 40, p. 1576-1584, ISSN: 0363-0129, doi: 10.1137/S0363012998347146
  - 48 Germani A, Manes C, Palumbo P (2002). Linear filtering for bilinear stochastic differential systems with unknown inputs. IEEE TRANSACTIONS ON AUTOMATIC CONTROL, vol. 47, p. 1726-1730, ISSN: 0018-9286, doi: 10.1109/TAC.2002.803546
  - 47 Germani A., Manes C, Pepe P. (2002). State Observation for Nonlinear Hybrid Automata. WSEAS TRANSACTIONS ON SYSTEMS, vol. 1, p. 210-215, ISSN: 1109-2777
  - 46 Germani A, Mavelli G (2002). The polynomial approach to the LQ non-Gaussian regulator problem. IEEE TRANSACTIONS ON AUTOMATIC CONTROL, vol. 47, p. 1385-1391, ISSN: 0018-9286, doi: 10.1109/TAC.2002.801184
  - 45 A. Germani, C. Manes, Pepe P (2001). An Asymptotic Observer for a Class of Nonlinear Delay Systems. KYBERNETIKA, vol. 37, p. 455-474, ISSN: 0023-5954
  - 44 Dalla Mora M, Germani A, Nardecchia A (2001). Restoration of images corrupted by additive non-Gaussian noise. IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS I. FUNDAMENTAL THEORY AND APPLICATIONS, vol. 48, p. 859-875, ISSN: 1057-7122, doi: 10.1109/81.933327
  - 43 Germani A., Manes C, Pepe P. (2000). A Twofold Spline Approximation for Finite Horizon LQG Control of Hereditary Systems. SIAM JOURNAL ON CONTROL AND OPTIMIZATION, vol. 39, p. 1233-1295, ISSN: 0363-0129, doi: 10.1137/S0363012998337461
  - 42 Carravetta F, Germani A, Shuakayev MK (2000). A new suboptimal approach to the filtering problem for bilinear stochastic differential systems. SIAM JOURNAL ON CONTROL AND OPTIMIZATION, vol. 38, p. 1171-1203, ISSN: 0363-0129, doi: 10.1137/S0363012997320912
  - 41 Dalla Mora M, Germani A, Manes C (2000). Design of state observers from a drift-observability property. IEEE TRANSACTIONS ON AUTOMATIC CONTROL, vol. 45, p. 1536-1540, ISSN: 0018-9286, doi: 10.1109/9.871767
  - 40 Germani A, Manes C, Pepe P (2000). Local Asymptotic Stability for Nonlinear State Feedback Delay Systems. KYBERNETIKA, vol. 36, p. 31-42, ISSN: 0023-5954
  - 39 Germani A, Mavelli G (1999). Optimal quadratic solution for the non-Gaussian finite-horizon regulator problem. SYSTEMS & CONTROL LETTERS, vol. 38, p. 321-331, ISSN: 0167-6911, doi: 10.1016/S0167-6911(99)00069-9
  - 38 Germani A, Manes C (1999). State observers for nonlinear systems with smooth/bounded input. KYBERNETIKA, vol. 35, p. 393-413, ISSN: 0023-5954
  - 37 Dalla Mora M., Germani A., Manes C (1997). A state observer for nonlinear dynamical systems. NONLINEAR ANALYSIS, vol. 30, p. 4485-4496, ISSN: 0362-546X, doi: [http://dx.doi.org/10.1016/S0362-546X\(97\)00184-3](http://dx.doi.org/10.1016/S0362-546X(97)00184-3)
  - 36 Carravetta F, Germani A, Raimondi M (1997). Polynomial filtering of discrete-time stochastic linear systems with multiplicative state noise. IEEE TRANSACTIONS ON AUTOMATIC CONTROL, vol. 42, p. 1106-1126, ISSN: 0018-9286, doi: 10.1109/9.618240
  - 35 Carravetta F, Germani A, Raimondi M (1996). Polynomial filtering for linear discrete time non-Gaussian systems. SIAM JOURNAL ON CONTROL AND OPTIMIZATION, vol. 34, p. 1666-1690, ISSN: 0363-0129, doi: 10.1137/S0363012993252899
  - 34 Ciccarella G, Dalla Mora M, Germani A (1995). A ROBUST OBSERVER FOR DISCRETE-TIME NONLINEAR-SYSTEMS. SYSTEMS & CONTROL LETTERS, vol.

- 24, p. 291-300, ISSN: 0167-6911, doi: 10.1016/0167-6911(94)00021-M
- 33 Ciccarella G, Dalla Mora M, Germani A (1995). ASYMPTOTIC LINEARIZATION AND STABILIZATION FOR A CLASS OF NONLINEAR-SYSTEMS. JOURNAL OF OPTIMIZATION THEORY AND APPLICATIONS, vol. 84, p. 495-507, ISSN: 0022-3239, doi: 10.1007/BF02191982
  - 32 De Santis A, Germani A, Raimondi M (1995). OPTIMAL QUADRATIC FILTERING OF LINEAR DISCRETE-TIME NON-GAUSSIAN SYSTEMS. IEEE TRANSACTIONS ON AUTOMATIC CONTROL, vol. 40, p. 1274-1278, ISSN: 0018-9286, doi: 10.1109/9.400478
  - 31 De Santis A, Gandolfi A, Germani A, Tardelli P (1994). POLYNOMIAL-APPROXIMATION FOR A CLASS OF PHYSICAL RANDOM-VARIABLES. PROCEEDINGS OF THE AMERICAN MATHEMATICAL SOCIETY, vol. 120, p. 261-266, ISSN: 0002-9939
  - 30 De Santis A., Germani A, Jetto L. (1994). Space-Variant recursive restoration of noisy images. IEEE TRANSACTIONS ON CIRCUITS AND SYSTEMS. 2, ANALOG AND DIGITAL SIGNAL PROCESSING, vol. 41, p. 249-261, ISSN: 1057-7130
  - 29 Ciccarella G, Dalla Mora M, Germani A (1993). A LUENBERGER-LIKE OBSERVER FOR NONLINEAR-SYSTEMS. INTERNATIONAL JOURNAL OF CONTROL, vol. 57, p. 537-556, ISSN: 0020-7179, doi: 10.1080/00207179308934406
  - 28 De Santis A, Germani A, Jetto L (1993). APPROXIMATION OF THE ALGEBRAIC RICCATI EQUATION IN THE HILBERT-SPACE OF HILBERT-SCHMIDT OPERATORS. SIAM JOURNAL ON CONTROL AND OPTIMIZATION, vol. 31, p. 847-874, ISSN: 0363-0129, doi: 10.1137/0331037
  - 27 De Santis A, Germani A, Scoglio C (1993). KALMAN FILTER APPROACH TO SOLUTION OF RATIONAL-EXPECTATIONS MODELS. COMPUTERS & MATHEMATICS WITH APPLICATIONS, vol. 25, p. 39-47, ISSN: 0898-1221, doi: 10.1016/0898-1221(93)90184-W
  - 26 Ciccarella G, Dalla Mora M, Germani A (1993). OBSERVERS FOR DISCRETE-TIME NONLINEAR-SYSTEMS. SYSTEMS & CONTROL LETTERS, vol. 20, p. 373-382, ISSN: 0167-6911, doi: 10.1016/0167-6911(93)90016-Y
  - 25 A. De Santis, Germani A, L. Jetto (1990). Image Modelling by smooth two-dimensional gaussian processes in the recursive restoration problem. PHYSICA MEDICA, vol. 6, p. 25-34, ISSN: 1120-1797
  - 24 Germani A (1989). Bidimensional Filtering. PHYSICA MEDICA, p. 213-216, ISSN: 1120-1797
  - 23 Germani A (1989). CORRECTION. CIRCUITS SYSTEMS AND SIGNAL PROCESSING, vol. 8, p. 229, ISSN: 0278-081X, doi: 10.1007/BF01599939
  - 22 Germani A, Jetto L, Piccioni M (1988). GALERKIN APPROXIMATION FOR OPTIMAL LINEAR-FILTERING OF INFINITE-DIMENSIONAL LINEAR-SYSTEMS. SIAM JOURNAL ON CONTROL AND OPTIMIZATION, vol. 26, p. 1287-1305, ISSN: 0363-0129, doi: 10.1137/0326072
  - 21 Germani A, Jetto L (1988). IMAGE MODELING AND RESTORATION - A NEW APPROACH. CIRCUITS SYSTEMS AND SIGNAL PROCESSING, vol. 7, p. 427-457, ISSN: 0278-081X, doi: 10.1007/BF01599919
  - 20 Germani A, Piccioni M (1988). Semi-discretization of stochastic partial differential equations on  $R^d$  by a finite-element technique. STOCHASTICS, vol. 23, p. 131-148, ISSN: 0090-9491, doi: 10.1080/17442508808833486
  - 19 Germani A, Piccioni M (1987). FINITE-DIMENSIONAL APPROXIMATIONS FOR THE EQUATION OF NONLINEAR FILTERING DERIVED IN MILD FORM. APPLIED MATHEMATICS AND OPTIMIZATION, vol. 16, p. 51-72, ISSN: 0095-4616, doi: 10.1007/BF01442185
  - 18 Bertuzzi A, Gandolfi A, Germani A, Vitelli R, Badaracco G, Starace G (1987). STUDY OF

- CELL-KINETICS BY COMPUTER-ANALYZED FLOW CYTOMETRIC HISTOGRAMS. COMPUTERS & MATHEMATICS WITH APPLICATIONS, vol. 14, p. 763-770, ISSN: 0898-1221, doi: 10.1016/0898-1221(87)90225-2
- 17 Fioretti S, Germani A, Leo T (1985). STEREOOMETRY IN VERY CLOSE-RANGE STEREOPHOTOGRAMMETRY WITH NONMETRIC CAMERAS FOR HUMAN MOVEMENT ANALYSIS. JOURNAL OF BIOMECHANICS, vol. 18, p. 831-842, ISSN: 0021-9290, doi: 10.1016/0021-9290(85)90480-4
  - 16 C. Bruni, A. Gandolfi, Germani A (1984). Analysis of the parameter constraints for a proposed antibody affinity distribution. JOURNAL OF THEORETICAL BIOLOGY, vol. 109, p. 71-76, ISSN: 0022-5193
  - 15 1984. Bertuzzi, A. Gandolfi, Germani A, G. Starace, M. SPAN (1984). analysis of DNA synthesis rate of cultured cells from cytofluorimetric data. CYTOMETRY, vol. 5, p. 619-628, ISSN: 0196-4763
  - 14 P. D'Alessandro, Germani A, M. Piccioni (1984). relationships between measures induced by Ito and white noise linear equations. MATHEMATICS AND COMPUTERS IN SIMULATION, vol. 26, p. 368-372, ISSN: 0378-4754, doi: 10.1016/0378-4754(84)90011-9
  - 13 Bertuzzi A, Gandolfi A, Germani A, Vitelli R (1983). A general expression for sequential DNA-fluorescence histograms.. JOURNAL OF THEORETICAL BIOLOGY, vol. 102, p. 55-67, ISSN: 0022-5193, doi: 10.1016/0022-5193(83)90262-X
  - 12 A. Bertuzzi, A. Gandolfi, Germani A, R. Vitelli (1983). Estimation of DNA-synteticrates from FCM histograms. CELL BIOPHYSICS, vol. 5, p. 223-236, ISSN: 0163-4992
  - 11 Germani A, S. Monaco (1983). Functional output epsilon trajectory controllability for linear systems on Hilbert spaces. SYSTEMS & CONTROL LETTERS, vol. 26, p. 313-320, ISSN: 0167-6911, doi: 10.1016/S0167-6911(83)80009-7
  - 10 A. Gandolfi, Germani A (1983). On the definition of a topology in Hilbert spaces with application to the white noise theory. JOURNAL OF THE FRANKLIN INSTITUTE, vol. 316, p. 435-444, ISSN: 0016-0032, doi: 10.1016/0016-0032(83)90090-X
  - 9 A. Bertuzzi, A. Gandolfi, Germani A (1981). A Weierstrass-like theorem for real separable Hilbert spaces. JOURNAL OF APPROXIMATION THEORY, vol. 32, p. 76-81, ISSN: 0021-9045, doi: [http://dx.doi.org/10.1016/0021-9045\(81\)90023-X](http://dx.doi.org/10.1016/0021-9045(81)90023-X)
  - 8 A. Bertuzzi, A. Gandolfi, Germani A (1981). Causal polynomial approximations of input-output maps on Hilbert spaces. MATHEMATICAL SYSTEMS THEORY, vol. 14, p. 339-352, ISSN: 0025-5661, doi: 10.1007/BF01752405
  - 7 C. Bruni, A. Gandolfi, Germani A (1981). Observability of linear in the state systems: a functional approach. IEEE TRANSACTIONS ON AUTOMATIC CONTROL, vol. 25, p. 566-567, ISSN: 0018-9286, doi: 10.1109/TAC.1980.1102358
  - 6 Germani A, S. Monaco (1981). Some results on the controllability of perturbed linear systems on Hilbert spaces. SYSTEMS & CONTROL LETTERS, vol. 1, p. 140-147, ISSN: 0167-6911, doi: 10.1016/S0167-6911(81)80052-7
  - 5 A. Bertuzzi, C. Bruni, A. Gandolfi, Germani A (1981). Volterra series expansion for bilinear systems in a nonlinear feedback loop. JOURNAL OF DYNAMIC SYSTEMS, MEASUREMENT AND CONTROL, vol. 103, p. 84-88, ISSN: 0022-0434, doi: <http://dx.doi.org/10.1115/1.3139659>
  - 4 Germani A, P. SEN (1981). White noise solution for a class of distributed feedback systems with multiplicative noise. RICERCHE DI AUTOMATICA, vol. 10, p. 339-352, ISSN: 0048-8291
  - 3 C. Bruni, Germani A, G. Koch, R. Strom (1976). Derivation of antibody distribution from experimental binding data. JOURNAL OF THEORETICAL BIOLOGY, vol. 61, p. 143-170, ISSN: 0022-5193, doi: [http://dx.doi.org/10.1016/0022-5193\(76\)90110-7](http://dx.doi.org/10.1016/0022-5193(76)90110-7),
  - 2 Bruni C, Germani A, Koch G (1974). On the distribution of antibody affinities in the immune response. I. An analytical procedure to determine antibody distribution.

BOLLETTINO DELLA SOCIETA ITALIANA DI BIOLOGIA SPERIMENTALE, vol. 50, p. 1057-1062, ISSN: 0037-8771

- 1 Bruni C, Germani A, Koch G (1974). On the distribution of antibody affinities in the immune response. II. Application to experimental data of an analytical procedure to determine antibody distribution.. BOLLETTINO DELLA SOCIETA ITALIANA DI BIOLOGIA SPERIMENTALE, vol. 50, p. 1063-1069, ISSN: 0037-8771

## CONFERENCE PAPERS

- 117 De Iuliis Vittorio, Germani Alfredo, Manes Costanzo (2017). Identification of forward and feedback transfer functions in closed-loop systems with feedback delay. In: Proceedings of the 20th World Congress of the International Federation of Automatic Control. Toulouse, Francia, 9-14 luglio 2017
- 116 De Iuliis Vittorio, Germani Alfredo, Manes Costanzo (2017). Internally Positive Representations and stability analysis of linear difference systems with multiple delays. In: The 20th World Congress of the International Federation of Automatic Control. Toulouse, Francia, 9-14 luglio 2017
- 115 Cacace Filippo, Germani Alfredo, Manes Costanzo (2016). The feedback theorem for sub-optimal filters. In: 2016 IEEE 55th Conference on Decision and Control, CDC 2016. p. 5460-5464, Institute of Electrical and Electronics Engineers Inc., ISBN: 9781509018376, Las Vegas, USA, 12-14 dicembre 2016, doi: 10.1109/CDC.2016.7799107
- 114 Cacace F, Cusimano V, Germani A, Palumbo P.(2016),CarlemanDiscretization of Impulsive Systems: Application to the Optimal Control Problem of Anti-Angiogenic Tumor Therapies. IEEE 55th Conference on Decision and Control, CDC 2016. p. 5460-5464, Institute of Electrical and Electronics Engineers Inc., ISBN: 9781509018376, Las Vegas, USA, 12-14 dicembre 2016, doi: 10.1109/CDC.2016.7799107
- 113 Cacace F, Conte F, Germani A, Palombo G.,White Noise Solution for Nonlinear \*tochastic Systems: in memory of A.V. Balakrishnan.(2016),IFAC-PapersOnLine,49(18), pp.327-332. Doi: 10.1109/CDC.2015.7403108
- 112 Cacace F., Germani A., Manes C:, (2015). A State Observer for Nonlinear Systems with Large and Variable Measurement Delay. Proc. Of the 54rd IEEE CDC , aet. No 7403324, pp. 7010-7015
- 111 Cacace F, Conte F, Germani A, Palombo, A New Method for the Simultaneous Estimation of State and Delay in time Delay Systems.(2015) Proc. Of the 54rd IEEE CDC , aet. No 7403108, pp.5666-5670
- 110 Cacace F, Conte F, Germani A, Palombo G (2014). Quadratic Filtering for Non-Gaussian and Not Asymptotically Stable Linear Discrete-Time Systems . In: Proc. of the 53rd IEEE CDC.
- 109 Fasano A, Germani A, Monteriù A (2014). A Detection-Estimation Approach to Filtering for Gaussian Systems with Intermittent Observations . In: Proc of the 53rd IEEE CDC.
- 108 Cacace F, Germani A, Manes C (2014). A Positive Observer for Linear Systems. In: Proceedings of the 19th IFAC World Congress. vol. 19, p. 5357-5362, IFAC, ISBN: 978-3-902823-62-5, Cape Town, 24-29 Agosto, doi: 10.3182/20140824-6-ZA-1003.00234
- 107 Cacace F, Cusimano V, Germani A, Palumbo P (2014). A carleman Discretization Approach to Filter Nonlinear Stochastic Systems with Sampled Measurements. In: Proc. of the 19 IFAC World Congress. p. 9534-9539, cape town
- 106 Cacace F, Conte F, Germani A (2014). A new filtering approach for continuous-time systems with delayed measurements. In: Proc. of the 19IFAC World Congress. p. 3745-3750
- 105 Cacace F, Fasano A, Germani A (2014). Quadratic filteringof nongaussian linear systems with random observation matrices. In: Proc. of the 19 IFAC world Congress. p. 2370-2375, cape town



- 105 Conte F, Germani A, Iannello G (2013). A Kalman filter approach for denoising and deblurring 3-D images by multi-view data. In: Proc. of the 52nd IEEE CDC. Firenze, 10-13 Dec. 2013
- 104 Cacace F, Germani A, Manes C (2013). A chain approach for state observation of a class of MIMO nonlinear systems with time-varying output delays. In: Proceedings of the 11-IFAC Workshop on Time-Delay Systems. vol. 11, p. 546-551, Elsevier, ISBN: 978-3-902823-26-7, Grenoble, Francia, 4-6 Febbraio, 2013, doi: 10.3182/20130204-3-FR-4031.00014
- 103 Cacace F, Conte F, Germani A, Palombo G (2013). Filtering of nonlinear systems with sampled noisy data by output injection. In: Proc. of the 52nd IEEE CDC. Firenze, 10-13 Dec. 2013
- 102 Cacace F, Fasano A, Germani A, Monteriù A (2013). Optimal reduced-order quadratic solution for the non-gaussian finite-horizon regulator problem. In: Proc. OF the 52 IEEE CDC. Florence, Italy, December 10-13, 2013
- 101 Cacace F, Germani A, Manes C (2013). Partial spectrum assignment for systems with delayed state feedback. In: Proceedings of the 11th IFAC Workshop on Time-Delay Systems. vol. 11, p. 18-23, ELSEVIER, Grenoble, France, 4-6 Febbraio 2013, doi: 10.3182/20130204-3-FR-4031.00141
- 100 Cacace F, Cusimano V, Germani A, Palumbo P (2013). The observer follower filter for stochastic differential systems with sample measurements. In: Proc. Of the 52nd IEEE CDC. Florence, Italy, 0-13 Dec. 2013
- 99 Cacace, Fasano A, Germani A (2013). quadratic filtering of non-gaussian systems with intermittent observations. In: Proc. of the 52nd CDC. p. 4024-4029, Firenze, 10-13 Dec. 2013
- 98 Conte F, Cusimano V, Germani A (2012). A Separation Theorem for a Class of MIMO Discrete-Time Nonlinear Systems. In: cdc 2012. PROCEEDINGS OF THE IEEE CONFERENCE ON DECISION & CONTROL, p. 5888-5893, ISBN: 978-1-4673-2066-5, ISSN: 0743-1546, Maui, Hawaii, USA, 10-13 Dec. 2012
- 97 Cacace Filippo, Germani Alfredo, Manes Costanzo (2012). An Exponential Observer with Delay-Dependent Gain for a Class of Nonlinear Systems with Time-Varying Measurement Delay. In: Proceedings of the 50th IEEE Conference on Decision and Control (CDC12). p. 2364-2369, ISBN: 978-1-4673-2066-5, Maui, Hawaii USA, 10-13 dicembre 2012, doi: 10.1109/CDC.2012.6427083
- 96 Fasano A, Germani A, Monteriù A (2012). Reduced-Order Quadratic Kalman-like Filtering for Non-Gaussian Systems. In: cdc 2012. PROCEEDINGS OF THE IEEE CONFERENCE ON DECISION & CONTROL, p. 2008-2015, ISBN: 978-1-4673-2066-5, ISSN: 0743-1546, Maui, Hawaii, USA, 10-13 Dec. 2012
- 95 Conte F, Germani A, Iannello G (2011). A New Approach for Deconvolution and Filtering of 3-D Microscopy Images. In: Proceedings of 2011 International Federation of Automatic Control World Congress (IFAC WC2011).. Milano, Italia, 28 agosto-2 settembre, 2011, vol. 18, p. 1180-1185, ISBN: 978-3-902661-93-7, doi: 10.3182/20110828-6-IT-1002.01152
- 94 Conte F, Cusimano V, Germani A (2011). A new approach for planar tracking in a nongaussian setting. In: Proceedings of the 50th IEEE Conference on Decision and Control and European Control Conference. Orlando, FL, 12 December - 15 December 2011, p. 3160-3165, ISBN: 978-161284800-6, doi: 10.1109/CDC.2011.6161155
- 93 Cacace F, Germani A, Palumbo P (2011). A new approach to nonlinear filtering via a mixed state observer and polynomial scheme.. In: . Proceedings of the 18th IFAC World Congress, 2011 World Congress, . Milano, Italia, 28 agosto - 2 settembre, 2011, vol. 18, p. 4477-4482, ISBN: 978-3-902661-93-7, doi: 10.3182/20110828-6-IT-1002.02058
- 92 Cacace F, Germani A, Palumbo P (2011). A state observer approach to filter stochastic nonlinear differential systems. In: Proceedings of the 50th IEEE Conference on Decision and Control and European Control Conference. Orlando, FL, 12 December - 15 December 2011, p. 7917-7922, ISBN: 978-161284800-6, doi: 10.1109/CDC.2011.6160233
- 91 Cacace F, Cusimano V, Germani A (2011). An efficient approach to the design of observers for continuous-time systems with discrete-time measurements. In: Proceedings of the 50th IEEE

- Conference on Decision and Control and European Control Conference. Orlando, FL, 12 December - 15 December 2011, p. 7549-7554, ISBN: 978-161284800-6, doi: 10.1109/CDC.2011.6160197
- 90 Conte F, Cusimano V, Germani A (2011). An efficient solution of the perspective problem via a suitable delay Riccati equation. In: Proceedings of the 50th IEEE Conference on Decision and Control and European Control Conference. Orlando, FL, 12 December - 15 December 2011, p. 6308-6312, ISBN: 978-161284800-6, doi: 10.1109/CDC.2011.6161158
- 89 Conte F, Cusimano V, Germani A (2011). Optimal Polynomial Filtering for Planar Tracking via Virtual Measurement Process. In: Proc. of the 2011 International Federation of Automatic Control World Congress (IFAC WC2011). Milano, Italia, 28 agosto-2 settembre, 2011, ISBN: 978-3-902661-93-7, doi: 10.3182/20110828-6-IT-1002.02075
- 88 Cacace F, Germani A, Manes C (2011). The roots of unity and a direct method for the computation of stable Internal Positive Representations of linear systems. In: Proceedings of the 50th IEEE Conference on Decision and Control and European Control Conference. p. 3369-3374, ISBN: 978-161284800-6, Orlando, FL, 12 December - 15 December 2011, doi: 10.1109/CDC.2011.6161234
- 87 Cacace F, Farina L, Germani A, Manes C (2010). "A method for Internally Positive Realization of continuous time systems",. In: Proc. 49th IEEE Conference on Decision and Control (CDC10) Atlanta, GA, USA, Dicembre 2010. 49th IEEE Conference on Decision and Control (CDC10) Atlanta, GA, USA, Dicembre 2010. p. 4978-4983, ISBN: 978-142447744-9, Atlanta, GA,, December 15-17, 2010, doi: 10.1109/CDC.2010.5717901
- 86 Cacace F, Farina L, Germani A, Palumbo P (2010). Discrete-Time Models for Gene Transcriptional Regulation Networks. In: Proc. 49th IEEE Conference on Decision and Control, December 15-17, 2010, Hilton Atlanta Hotel, Atlanta, GA, USA. Hilton Atlanta Hotel, Atlanta, G, December 15-17, p. 7618-7623 , ISBN: 978-1-4244-7745-6, doi: 10.1109/CDC.2010.5717984
- 85 Germani A, Manes C, Pepe P (2010). Separation Theorems for a Class of Retarded Nonlinear Systems. In: Proc. 9th IFAC Workshop on Time Delay Systems, TDS 2010, Praga, 7-9 giugno 2010. ISBN: 978-3-902661-71-5, Prague, Czech Republic, 07-09 June 2010,, doi: 10.3182/20100607-3-CZ-4010.00006
- 84 Cacace F, Germani A, Palumbo P (2009). Observer-based identification of a Multi-Output Feedforward Loop from gene expression data. In: Proceedings of the 48th IEEE Conference on Decision and Control held jointly with 2009 28th Chinese Control Conference. Shanghai, China, 15-18 Dec. 2009, p. 6189-6194, ISBN: 978-142443871-6, doi: 10.1109/CDC.2009.5400807
- 83 Cacace F, Germani A, Manes C (2009). Representation of a Class of Polynomial MIMO systems via Positive Realizations. In: Proc. of the European Control Conference (ECC09), Budapest, Ungheria, Agosto 2009. ISBN: 9789633113691, Budapest, Ungheria, Agosto 2009
- 82 Germani A, Manes C (2009). Semiglobal state observers for nonlinear analytic discrete-time systems. In: Proc. 48th IEEE Conference on Decision and Control (CDC09) + 28th Chinese Control Conference (CCC09) Shanghai, China, Dicembre 2009. p. 6532-6537, ISBN: 978-1-4244-3871-6, Shanghai, Cina, 15-18 Dec. 2009, doi: 10.1109/CDC.2009.5399659
- 81 Germani A, Manes C (2008). State observers for systems with sensors modeled by polynomials and rational functions. In: Proc. of 16th Mediterranean Conference on Control and Automation (MED08), Ajaccio, Francia, Giugno 2008;. p. 1387-1392 , ISBN: 978-1-4244-2504-4, Ajaccio, France, 25-27 June 2008, doi: 10.1109/MED.2008.4602186
- 80 Germani A, Manes C (2008). The Polynomial Extended Kalman Filter as an Exponential Observer for Nonlinear Discrete-Time Systems. In: Proceedings of the 47th IEEE Conference on Decision and Control (CDC08). p. 5122-5127, ISBN: 978-1-4244-3123-6, Cancun, Mexico, December 2008, doi: 10.1109/CDC.2008.4739108
- 79 Germani A, Manes C (2007). An exponential observer for discrete-time systems with bilinear

- drift and rational output functions. In: Proceedings of the 2007 European Control Conference (ECC07). p. 5777-5782, ISBN: 9789608902855, Kos, Grecia, luglio 2007
- 78 Germani A, Manes C, Palumbo P (2007). Simultaneous system identification and channel estimation: a hybrid system approach. In: Proceedings of the 46th IEEE Conference on Decision and Control (CDC07). p. 1764-1769, ISBN: 978-142441497-0, New Orleans, dicembre 2007, doi: <http://dx.doi.org/10.1109/CDC.2007.4435035>
- 77 Germani A, Manes C, Palumbo P (2007). State space representation of a class of MIMO systems via combination of positive systems. In: Proceedings of the 46th IEEE Conference on Decision and Control (CDC07). p. 476-481, ISBN: 978-142441497-0, New Orleans, Louisiana, dicembre 2007, doi: <http://dx.doi.org/10.1109/CDC.2007.4434623>
- 76 Di Martino D, Germani A, Manes C, Palumbo P (2006). Design of observers for systems with rational output function. In: Proceedings of the 45th IEEE Conference on Decision and Control (CDC06). p. 1641-1646, ISBN: 978-142440170-3, Manchester Grand Hyatt Hotel, San Diego, CA, USA, December 13-15, 2006, doi: [10.1109/CDC.2006.377751](http://dx.doi.org/10.1109/CDC.2006.377751)
- 75 Germani A, Graziosi F, Manes C, Ocera G, Palumbo P (2006). Recursive filtering for log-Rice signals. In: Proceedings of the 45th IEEE Conference on Decision and Control (CDC06). p. 3150-3155, ISBN: 978-142440170-3, San Diego, 13-15 Dec. 2006, doi: [10.1109/CDC.2006.376763](http://dx.doi.org/10.1109/CDC.2006.376763)
- 74 Germani A, C. Manes, P. Palumbo (2005). A Family of polynomial filters for discrete-time nonlinear stochastic systems. In: Proc. of the IFAC 16th World Congress, Praga, Repubblica Ceca, Luglio 2005. vol. 16, p. 1287-1292, ISBN: 008045108X, Praga, Repubblica Ceca, Luglio 2005., Luglio, 2005, doi: [978-008045108-4](http://dx.doi.org/10.1109/CDC.2005.1583108)
- 73 De Gaetano A., Di Martino D., Germani A., Manes C, Palumbo P. (2005). Distributed-delays models of the glucose-insulin homeostasis and asymptotic state observation. In: Proceedings of the 16th IFAC World Congress, Praha 2006. ISBN: 978-008044215-0, Prague, Czech Republic, July 4-8, 2005
- 72 Germani A, C. Manes, P. Palumbo (2005). Filtering of differential nonlinear systems via a Carleman approximation approach. In: Proc. of the 44th Conference on Decision and Control & European Control Conference (CDC-ECC05), Siviglia, Spagna, pp. 5917-5922, dicembre 2005. Siviglia, Spagna, Dec. 2005, p. 5917-5922, ISBN: 0-7803-9567-0, doi: [10.1109/CDC.2005.1583108](http://dx.doi.org/10.1109/CDC.2005.1583108)
- 71 A. De Gaetano, D. Di Martino, Germani A, C. Manes (2005). Mathematical models and state observation of the glucose-insulin homeostasis. In: (a cura di): J. Cagnol and J.P. Zolesio , System Modeling and Optimization, 21st IFIP TC-7 Conference.. p. 283-294, Kluwer Academic Publishers, ISBN: 0-387-23467-5, Sophia Antipolis, France., Luglio 2003,
- 70 Germani A., Manes C, Palumbo P. (2005). Polynomial filtering and identification of discrete-time nonlinear uncertain stochastic systems. In: Proceedings of the 44th Conference on Decision and Control & European Control Conference (CDC-ECC05). p. 1917-1922, ISBN: 978-078039567-1, Dicembre 2005, doi: <http://dx.doi.org/10.1109/CDC.2005.1582440>
- 69 A. Germani, Pepe P (2004). An Observer for a Class of Nonlinear Systems with Multiple Discrete and Distributed Time Delays. In: Proceedings of the 16th International Symposium on Mathematical Theory of Networks and Systems. ISBN: 008-044583-7, Katholieke Universiteit Leuven, Belgium, July 5-9
- 68 D. Di Martino, Germani A, C. Manes, P. Palumbo (2004). Polynomial approach for filtering and identification of a class of uncertain systems. In: Proceedings of the 2nd IFAC Symposium on Systems, Structure and Control (SSSC04). p. 539-544, ISBN: 978-008044131-3, Oaxaca, Mexico., Dicembre 2004
- 67 Di Loreto C, Germani A, Manes C (2004). Polynomial extension of linear subspace algorithms for stochastic identification. In: Proceedings of the 43rd IEEE Conference on Decision and Control. vol. 2, p. 2213-2218, ISBN: 978-078038682-2, Paradise Island (Bahamas), 14 dicembre 2004, doi: [10.1109/CDC.2004.1430377](http://dx.doi.org/10.1109/CDC.2004.1430377)

- 66 Germani A, C. Manes, P. Palumbo (2004). Polynomial filtering for stochastic non-Gaussian descriptor systems. In: Proceedings of the 43rd IEEE Conference on Decision and Control (CDC04). vol. 2, p. 2088-2093, ISBN: 978-078038682-2, Paradise Island, Bahamas,, Dicembre 2004, doi: <http://dx.doi.org/10.1109/TCSI.2004.831436>
- 65 Di Martino D., Germani A., Manes C, Palumbo P. (2004). Quadratic filtering for simultaneous state and parameter estimation of uncertain systems. In: Proceedings of the 43rd IEEE Conference on Decision and Control (CDC04). vol. 4, p. 3569-3574, ISBN: 0-7803-8682-5, Paradise Island, Bahamas,, Dicembre 2004, doi: [10.1109/CDC.2004.1429266](http://dx.doi.org/10.1109/CDC.2004.1429266)
- 64 Di Martino D., Germani A., Manes C, Palumbo P. (2004). State observation for systems with linear dynamics and polynomial output. In: Proceedings of the. p. 3886-3891, ISBN: 978-078038682-2, Paradise Island, Bahamas,, Dicembre 2004, doi: <http://dx.doi.org/10.1109/CDC.2004.1429266>
- 63 Germani A, C. Manes, P. Palumbo (2003). A Minimum Variance Filter for Discrete-Time Linear Systems Perturbed by Unknown Nonlinearities. In: Proc. of the International Symposium on Circuits and Systems (ISCAS2003). vol. 4., p. 117-120, ISBN: 0-7803-7761-3, Bangkok, Thailand,, Maggio 2003., doi: [10.1109/ISCAS.2003.1205787](http://dx.doi.org/10.1109/ISCAS.2003.1205787)
- 62 De Gaetano A., Di Martino D., Germani A., Manes C (2003). Mathematical models and state observation of the glucose-insulin homeostasis. In: Proceedings of the 21st IFIP TC 7 Conference on System Modeling and Optimization, Sophia Antipolis, France.. p. 283-294, ISBN: 038723467-5, Luglio 2003
- 61 Germani A., Manes C, Palumbo P. (2003). Polynomial Extended Kalman Filtering for Discrete-Time Nonlinear Stochastic Systems. In: 42nd IEEE Conference on Decision and Control (CDC03), Maui, Hawaii.. vol. 1, p. 886-891, ISBN: 978-078037924-4, Dicembre 2003, doi: <http://dx.doi.org/10.1109/CDC.2003.1272678>
- 60 Germani A, Manes C, Palumbo P (2003). Polynomial Filtering for Stochastic Systems with Markovian Switching Coefficients. In: Proc. of the 42nd IEEE Conference on Decision and Control (CDC03). Maui, Hawaii, USA., December 2003, vol. 2, p. 1392-1397, ISBN: 0-7803-7924-1, doi: [10.1109/CDC.2003.1272804](http://dx.doi.org/10.1109/CDC.2003.1272804)
- 59 Germani A, C. Manes (2002). A State Observer for Nonlinear Delay Systems with Delayed Output. In: Proc. of the 2002 IASTED Conf. on Control and Applications (CA 2002). p. 301-306, ISBN: 978-088986330-9, Cancun, Messico, maggio 20-22, 2002
- 58 Germani A, C. Manes, P. Palumbo (2002). Filtering of Switching Systems via a Minimax Approach. In: Proc. of the 41st IEEE Conference on Decision and Control (CDC02). p. 2600-2605, ISBN: 0-7803-7516-5, ), Las Vegas, Nevada, USA., Dicembre 2002., doi: [10.1109/CDC.2002.1184230](http://dx.doi.org/10.1109/CDC.2002.1184230)
- 57 Germani A., Manes C, Palumbo P. (2002). Kalman-Bucy Filtering for Singular Stochastic Differential Systems. In: Proc. of the 15th IFAC World Congress b02. vol. 15, p. 2554-2559, ISBN: 978-3-902661-74-6, Barcellona, Spagna,, Luglio 2002.
- 56 ANI A, C. Manes, P. Palumbo (2002). State Estimation for a Class of Stochastic Variable Structure Systems. In: Proc. of the 41st IEEE Conference on Decision and Control (CDC02). ), Las Vegas, Nevada, USA, Dicembre 2002., vol. 3 , p. 3027-3032, ISBN: 0-7803-7516-5, doi: [10.1109/CDC.2002.1184318](http://dx.doi.org/10.1109/CDC.2002.1184318)
- 55 Germani A., Manes C, Pepe P. (2002). State Observation for Nonlinear Hybrid Automata. In: Proceedings of the 2nd WSEAS Conference on Instrumentation, Measurement, Control, Circuits and Systems 2002 (IMCCAS 2002). Luglio
- 54 Germani A., Manes C (2001). On the existence of the linearizing state-feedback for nonlinear delay systems. In: Proceedings of the 40th IEEE Conference on Decision and Control (CDC01), Orlando, Fl. p. 4628-4629, ISBN: 978-078037061-6, Dicembre 2001, doi: <http://dx.doi.org/10.1109/.2001.980934>
- 53 Germani A., Manes C, Palumbo P. (2001). Optimal Linear Filtering for Stochastic non-Gaussian Descriptor Systems. In: Proceedings of the 40th IEEE Conference on Decision and

- Control (CDC01), Orlando, Fl. p. 2514-2519, ISBN: 978-078037061-6, Dicembre 2001, doi: <http://dx.doi.org/10.1109/.2001.980641>
- 52 A. Germani, C. Manes, Pepe P (2001). State Observers for Nonlinear Systems with Large Output Delays. In: Proceedings of the 5th IFAC Symposium on Nonlinear Control Systems. ISBN: 978-008043560-2
- 51 Germani A., Manes C (2000). A Bayesian approach for position estimation of a sensed mobile robot. In: Proceedings of the 8th International Symposium on Robotics with Applications (ISORA 2000), in the 2000 World Automation Congress(WAC 2000), Wailea, Maui, Hawaii. ISBN: 978-188933510-0, Giugno
- 50 Carravetta F, Germani A, Shuakayev M.K. (2000). A new suboptimal approach to the filtering problem for bilinear stochastic differential systems. In: Proceedings of the 39th IEEE Conference on Decision and Control. Sydney, December 2000, vol. 5, p. 4264-4269, ISBN: 0-7803-6638-7, doi: 10.1109/CDC.2001.914569
- 49 Germani A., Carravetta F., Liptser R., Manes C (2000). Filtering of nonlinear stochastic feedback systems. In: Proceedings of the 39th IEEE Conference on Decision and Control (CDC 2000), Sydney, Australia.. p. 4270-4273, ISBN: 978-078036638-1, Dicembre 2000, doi: 10.1109/CDC.2001.914570
- 48 Germani A., Manes C, Pepe P. (2000). State observation of nonlinear systems with delayed output measurements. In: Proceedings of the 2nd Workshop on Linear Time Delay Systems. p. 115-120, ISBN: 978-008043623-4, Ancona, 15-20 Settembre
- 47 Dalla Mora M, Germani A, Nardecchia A (1999). 2D-filtering for images corrupted by non-Gaussian noise. In: Proceedings of the 38th IEEE Conference on Decision and Control. Phoenix, AZ (USA), 7 dicembre 1999, vol. 4, p. 4167-4172, ISBN: 0-7803-5250-5, doi: 10.1109/CDC.1999.828015
- 46 Germani A., Manes C, Pepe P. (1999). An observer for MIMO nonlinear delay systems. In: Proceedings of the 14th IFAC World Congress, (IFAC99), Pechino, Cina.. vol. E, p. 243-248, ISBN: 978-008043248-9, Giugno
- 45 Carravetta F, Germani A, Manes C (1999). Kalman-Bucy filtering for singular output-noise covariance. In: Proc.7th IEEE Mediterranean Conference on Control and Automation. HAIFA (IL), GIUGNO 1999
- 44 Carravetta F., Germani A., Manes C (1999). Optimal filtering for degenerate nonlinear diffusions. In: Proceedings of the 38th IEEE Conference on Decision and Control (CDC99), Phoenix, Arizona. p. 4577-4582, ISBN: 978-078035250-6, Dicembre, doi: <http://dx.doi.org/10.1109/CDC.1999.833264>
- 43 Germani A., Manes C, Pepe P. (1999). State observers for nonlinear systems with output delayed informations. In: Proceedings of the 5th European Control Conference (ECC99), Karlsruhe, Germania. ISBN: 978-185233122-1, Agosto
- 42 Germani A., Manes C, Pepe P. (1998). A state observer for nonlinear delay-systems. In: Proceedings of the 37th IEEE Conference on Decision and Control (CDC98), Tampa, Florida. vol. 1, p. 355-360, ISBN: 978-078034394-8, Tampa, USA, Dicembre, doi: 10.1109/CDC.1998.760699
- 41 Germani A, Manes C, Pepe P (1998). Linearization and decoupling of nonlinear delay systems. In: Proc. of the IEEE 1998 American Control Conference, (ACC98),. vol. 3, p. 1948-1952, ISBN: 978-078034530-0, Philadelphia, USA, giugno 1998., doi: 10.1109/ACC.1998.707362
- 40 Germani A, Manes C, Pepe P (1998). Local Asymptotic Stability for Nonlinear State Feedback Delay Systems. In: Theory and Practice of Control and Systems. vol. I, p. 210-215, Singapore:World Scientific Publishing Co. Pte. Ltd., ISBN: 9810236689, giugno 1998
- 39 Carravetta F, Germani A (1998). Optimal linear finite-dimensional filtering for vector bilinear stochastic differential systems. In: Proceedings of the 37th IEEE Conference on Decision and Control. Tampa, FL, 16-18 dicembre 1998, vol. 3, p. 2906-2907, ISBN: 0-7803-4394-8, doi: 10.1109/CDC.1998.757919

- 38 Dalla Mora M, Germani A, Manes C, Pepe P (1998). Output Control of Nonlinear Systems with Multiple Discrete Delays. In: Theory and Practice of Control and Systems. vol. I, p. 415-419, Singapore:World Scientific Publishing Co. Pte. Ltd., ISBN: 978-981023668-7, Alghero, Italia, Giugno 1998.
- 37 Germani A, Manes C, Pepe P (1998). State observer for nonlinear delay systems. In: Proceedings of the 1998 37th IEEE Conference on Decision and Control. Tampa, FL, 16-18 dicembre 1998, vol. 1, p. 355-360, ISBN: 0-7803-4394-8, doi: 10.1109/CDC.1998.760699
- 36 Germani A, Manes C, Pepe P (1998). Tracking, model matching, disturbance decoupling for a class of nonlinear delay systems. In: Proc. of Large Scale Systems IFAC Conference, LLS98. vol. 1, p. 423-429, ISBN: 978-008043034-8, Patraso, Grecia, luglio1998.
- 35 Dalla Mora M, Germani A, Manes C (1997). Nonlinear observer/controller scheme for speed control of an induction motor without speed measurement. In: Proc. of the 5th IASTED International Conference on Robotics and Manufacturing. Cancun (Messico), 29-31 Maggio 1997, p. 275-280, ISBN: 0-88986-227-3
- 34 Carravetta F, Germani A, Manes C (1997). On the relationship between open-loop and closed-loop state estimation for nonlinear stochastic systems. In: Proc. of the IFAC/IEEE International Symposium on Artificial Intelligence in Real-Time Control (AIRC97). Kuala Lumpur, Malaysia, settembre 1997. , p. 504-509,, ISBN: 0080429270
- 33 Germani A, Manes C (1997). State Observers for Nonlinear Systems with Smooth/Bounded input. In: Proc. of the Vth IEEE Mediterranean Conference on Control and Systems. Paphos, Cipro, luglio 1997.
- 32 Germani A, Manes C (1997). State observers for nonlinear systems with slowly varying inputs. In: Proceedings of the 1997 36th IEEE Conference on Decision and Control. San Diego, California, 10-12 December 1997, vol. 5, p. 5054-5059, ISBN: 0-7803-4187-2, doi: 10.1109/CDC.1997.649863
- 31 Carravetta F, Germani A (1997). Suboptimal solutions for the cubic sensor problem . In: Proceedings of the 1997 36th IEEE Conference on Decision and Control. San Diego, California, 10-12 December 1997, vol. 5, p. 4460-4461, ISBN: 0-7803-4187-2, doi: 10.1109/CDC.1997.649667
- 30 Germani A, Manes C (1996). A simple observer-controller scheme for robot trajectory tracking. In: Proc. of the 4th IASTED International Conference on Robotics and Manufacturing. Honolulu, Hawaii, USA, agosto 1996. , p. 85-90, ISBN: 0-88986-209-5
- 29 A. Germani, C. Manes, Pepe P (1996). Linearization of Input-Output Mapping for Nonlinear Delay Systems via Static State Feedback. In: CESA96 IMACS Multiconference, Computational Engineering in Systems Applications. Symposium on Modelling, Analysis and Simulation. vol. 1, p. 599-602, ISBN: 978-295029085-4, Lille, France, July 9-12, 1996
- 28 Carravetta F, Germani A, Raimondi M (1995). An Approximation Theory for Optimal Filtering of Linear Discrete Time Non-Gaussian Systems. In: Proceedings of 8th Symposium on Information Control Problems in Manufacturing. Beijing, ottobre, 1995, p. 393-403, ISBN: 9780080423807
- 27 A. Germani, C. Manes, Pepe P (1995). Implementation of an LQG Control Scheme for Linear Systems with Delayed Feedback Action. In: Proceedings of the 3rd European Control Conference ECC95. vol. 4, p. 2886-2891, 5-8 Settembre
- 26 Germani A, Manes C, Pepe P (1995). Implementation of an LQG Control Scheme for linear systems with delayed feedback action. In: Proceedings of the 3rd European Control Conference (ECC95) Roma, I. vol. 4, p. 2886-2891, Roma, settembre 1995
- 25 Germani A, Manes C, Pepe P (1995). Numerical solution for optimal regulation of stochastic hereditary systems with multiple discrete delays. In: Proceedings of the 1995 34th IEEE Conference on Decision and Control. vol. 2, p. 1497-1502, ISBN: 978-078032686-6, New Orleans, Louisiana, Dec. 14-17, doi: 10.1109/CDC.1995.480348
- 24 Carravetta F, Germani A, Raimondi M (1994). Filtering of Discrete Time Bilinear Systems: a

- Polynomial Approach. In: Proceedings of 2nd IEEE Mediterranean Symposium on New Directions in Control and Automation (Med 94). p. 390-399
- 23 Germani A, Jetto L, Manes C, Pepe P (1994). LQG control problem for a class of hereditary systems: A method for computing its approximate solution. In: Proceedings of the 33rd IEEE Conference on Decision and Control. Lake Buena Vista, Florida, Dec. 14 - 16, 1994, vol. 2, p. 1362-1367, ISBN: 0-7803-1968-0, doi: 10.1109/CDC.1994.411259
  - 22 Germani A, Jetto L (1993). A twofold spline scheme approximation method for LQG control problem on Hilbert spaces. In: Proc. of the 12th IFAC World. Congress. Sydney, Australia, luglio, 19-23, 1993, ISBN: 9780080422114
  - 21 Chiricozzi E, Germani A, Manes C, Parasiliti F (1993). Deterministic and stochastic observers for electrical drives control. In: Proc. of the IMACS/IFAC Symposium on Mathematical and Intelligent Models for System Simulation (MIM-SS93). Bruxelles, Belgio, aprile, 1993, vol. 2 , p. 178-194
  - 20 De Santis A, Gandolfi A, Germani A, Tardelli P (1992). A Representation Theorem for Radon-Nikodym Derivatives in the White-Noise Theory. In: Mathematical theory of control. vol. 142, p. 109-124, NY, Basel, Hong Kong:Marcel Dekker, Inc., ISBN: 0824787501, INDIAN INST TECHNOL, BOMBAY, INDIA, DEC 10-15, 1990
  - 19 De Santis A, Germani A, Jetto L (1991). A non-stationary adaptive model for recursive image filtering. In: Proceedings of the 11th Triennial World Congress of the International Federation of Automatic Control. Tallinn, 13-17 agosto 1990, vol. 2, p. 71-76, ISBN: 9780080401744
  - 18 De Santis A, Germani A, Jetto L, Passariello R (1989). A new filtering algorithm for signal to noise ratio improvement in magnetic resonance imaging. In: Proc. of the 3-th Int. Simp. On Computer Assisted Radiology. Berlino, giugno, 25-28, 1989, SPRINGER-VERLAG, BERLIN:Springer-Verlag, Berlin, ISBN: 9783540508908
  - 17 De Santis A, Germani A, Jetto L (1989). Some results on the finite-dimensional approximation of the algebraic Riccati equation. In: (a cura di): Ed. S. Bittanti, Proc. of the IFAC/IEEE/SIMA Workshop on the Riccati Equation in Control, Signals and Systems . BOLOGNA: Pitagora Editrice Bologna, Como, Italia, giugno, 26-29, 1989
  - 16 Germani A, Jetto L (1988). NEW APPROACH TO IMAGE MODELING WITH APPLICATION TO RESTORATION PROBLEMS . In: Lecture Notes in Control and Information Sciences, Vol. 113, pp. 139-147, Springer-Verlag, 1988. . Tokio, 1987, vol. 113, p. 139-147, BERLIN HEIDELBERG:Springer-Verlag, ISBN: 3-540-19238-7
  - 15 Germani A, Jetto L, Piccioni M (1986). Approximation of the infinite dimensional Kalman filter by projections". In: (a cura di): A. Germani, Stochastic Modelling and Filtering . vol. 91, Springer-Verlag, ISBN: 3-540-17575-X, Roma
  - 14 Germani A, Jetto L, Verdicchio G (1985). A bidimensional Kalman filtering approach to noisy image restoration. In: (a cura di): V. Cappellini, R. Marconi, Advances in Image Processing and Pattern Recognition. p. 75-82, ISBN: 0-444-70068-4, Pisa, Italia, Dicembre 10-12, 1985
  - 13 Bertuzzi A, Gandolfi A, Germani A, Vitelli R, Badaracco G, Starace G (1985). DNA synthesis rate in neoplastic cells in colture. In: Proc. 11th. IMACS World Congress on System Simulation and Scientific Computation. Oslo, 1985, vol. 5, p. 185-188, North Holland,, ISBN: 044470082X
  - 12 Germani A, Piccioni M (1984). A Galerkin approximation for the Zakai equation. In: (a cura di): Ed. P. Thoft-Christensen, Lecture Notes in Control and Inf. Sciences. vol. 59, p. 415-423, , Springer-Verlag, ISBN: 3-540-13185-X, Copenhagen, 1983
  - 11 Germani A, Piccioni M (1984). Nonlinear filtering for Markov processes: an L2 approach. In: (a cura di): Eds. Bensoussan A , Lions J. L., Proc. 5th. INRIA Conf. on Analysis and Opt. Of Systems., Part. I. vol. 62, p. 581-591, Springer-Verlag, Berlin, ISBN: 3-540-12089-0
  - 10 Bertuzzi A, Clerico R, Gandolfi A, Germani A, Vitelli R (1983). Determination of DNA synthesis rate in cell population with locally exponential S-phase influx. In: (a cura di): Eds. V. Capasso, E. Grosso and S. L. Paveri-Fontana, Lecture Notes in Biomath., . vol. 57, Springer-

- Verlag., ISBN: 978-3-540-15200-2, Bari
- 9 Gandolfi A, Germani A, Monaco S (1983). Output epsilon-trajectory controllability for a class of nonlinear distributed systems. In: (a cura di): Eds. A. Bensoussan, J. L. Lions,, Proc. 5th. INRIA Conf. on Analysis and Opt. Of Syst., Versailles,Lecture Notes in Control and Inf. Sciences, Springer-Verlag . vol. 44, p. 800-808, Berlino: Springer-Verlag, ISBN: 3-540-12089-0, Versailles, 1981
  - 8 Bruni C, Gandolfi A, Germani A (1983). Theoretical investigation and numerical procedure for the estimation of antibody affinity distribution from binding data. In: (a cura di): Eds. G.I. Marchuk, L.N. Belykh, Proc. IFIP TC-7 Working Conference on Mathematical Modeling in Immunology and Medicine. p. 97-108, Amsterdam:ISAOC, North-Holland, Amsterdam, ISBN: 0444865888, Moskow,5-11 july, 1982
  - 7 Germani A, Monaco S (1982). Optimal feedback for distributed linear systems with white noise disturbance. In: Proc. Amer. Cont. Conf., Arlington. Arlington, 1982, p. 219-233, ISBN: 9789993679356
  - 6 Germani A (1981). Polynomial approximation and nonlinear white noise integral. In: Proc. 20th IEEE Conf. on Decision & Control. San Diego, dicembre, 1981, vol. 2, p. 793-797, doi: 10.1109/CDC.1981.269323
  - 5 Bruni C, Germani A, Koch G, Oratore A, Strom R (1979). Problems in the evaluation of antibody affinity distribution during the immune response. In: (a cura di): C. Bruni, G. Doria, G. Koch, R. Strom, Systems Theory in Immunology. . vol. 32, p. 104-116, BERLIN HEIDELBERG:Springer-Verlag, ISBN: 0387097287, Roma, doi: 10.1002/bimj.4710230516
  - 4 Bruni C, Gandolfi A, Germani A (1978). A bounded rate model for mass action multiple binding processes: stability analysis. In: (a cura di): Eds. R. R. Mohler, A. Ruberti, Proc. U.S.-Italy Seminar, Taormina, Lecture Notes in Econ. And Math. Syst.. vol. 162, BERLIN HEIDELBERG:Springer-Verlag, ISBN: 9783540090892, Taormina, Italia
  - 3 Bruni C, Germani A, Koch G (1978). Optimal derivation of antibody distribution in the immune response from noisy data. In: (a cura di): Ed. J. Stoer, Proc. 8th IFIP Conf. on Optimiz. Tech., Wurzburg, Lecture Notes in Control and Inf. Sciences. vol. 6, p. 411-420, Wurzburg,, 1977, doi: DOI: 10.1007/3-540-07623-9\_305
  - 2 Bruni C, Germani A, Koch G (1976). An introduction to bounded rate systems. In: Proc. 7th IFIP Conf. Optimization Technique, Nice, 1975, Part2, Lecture Notes in Comp. Science. Nice, Francia, 1975, vol. 41, p. 471-495, Berlin:Springer Verlag, Berlin, 1976., doi: 10.1007/3-540-07623-9\_305
  - 1 Germani A (1976). Parameter identification of continuous time bilinear systems. In: (a cura di): Eds. D. G. Lainiotis, N. S. Tzannes, Proc. of the First Int. Conf. on Inform. Sc. and Systems. vol. 2, p. 321-328, Washington:Hemisphere Publ. Corp., , ISBN: 0-89116-077-9, Patrasso, Grecia, 1976

## OTHER CONTRIBUTIONS

- 14 Cacace F., Farina L., Setola R., Germani A., Editors: POSITIVE SYSTEMS. Theory and Applications (POSTA 2016), Rome, Italy, September 14-16, 2016,Lecture Notes in Control and Information Sciences. Vol 471, SPRINGER
- 13 Cacace F, Germani A, Manes C (2015). State Estimation and Control of Nonlinear Systems with Large and Variable Measurement Delays. In: : Malisoff M Pepe P Mazenc F Karafyllis I, eds. Recent Results on Nonlinear Delay Control Systems. vol. 4, p. 95-112, Springer, ISBN:



- 978-3-319-18071-7, doi: 10.1007/978-3-319-18072-4
- 12 Germani A, Manes C., Pepe P. (2012). Observer-based stabilizing control for a class of nonlinear etarded systems . In: (a cura di): Sipahi R.,Vyhlidal T.,Niculescu S.-I.,Pepe P., Time Delay Systems: Methods, Applications and New Trends. LECTURE NOTES IN CONTROL AND INFORMATION SCIENCE, vol. 423, p. 331-342, SPRINGER., ISBN: 978-364225220-4, ISSN: 0170-8643, doi: 10.1007/978-3-642-25221-1\_25
  - 11 Germani A (2011). Polynomial Methods in the Nongaussian Filtering Problem. In: (a cura di): S. Sivasundaram,J. Vasundhara Devi, F. E. Udwardia,I. Lasiecka, ADVANCES IN DYNAMICS AND CONTROL: THEORY METHODS AND APPLICATIONS. vol. 4, p. 33-43, Cambridge University Press,, ISBN: 978-1-904868-69-9
  - 10 GASTALDI M, Germani A, Nardecchia A (2006). The use of quadratic filter for the estimation of time-varying Beta. In: (a cura di): M. Costantino e C.A. Brebbia, Computational Finance II. vol. 43, p. 215-224, SOUTHAMPTON:WIT Press, ISBN: 1-84564-1744
  - 9 De Gaetano A, Di Martino D, Germani A, Manes C (2005). Mathematical models and state observation of the glucose-insulin homeostasis. In: (a cura di): J. Cagnol and J.P. Zolesio, System Modeling and Optimization. vol. 116, p. 281-294, Kluwer Academic Publishers, ISBN: 978-140207760-9, doi: [http://dx.doi.org/10.1007/0-387-23467-5\\_20](http://dx.doi.org/10.1007/0-387-23467-5_20)
  - 8 De Santis A, Germani A, Jetto L (2001). Space-Variant Two-Dimensional Filtering of Noisy Images. In: (a cura di): Peter W. Hawkes, Advances in Imaging and Electron Physics. vol. 119, p. 267-318, Academic Press, ISBN: 0120147610, doi: 10.1016/S1076-5670(01)80089-6
  - 7 De Santis, Germani A, Jetto L (1998). Space-variant image restoration. In: Advances in Imaging and Electron Physics. vol. 99, p. 291-328, Academic Press,, ISBN: 9780120147410, doi: 10.1016/S1076-5670(08)70244-1
  - 6 De Santis A, Gandolfi A, Germani A, Tardelli P (1993). A Representation Theorem for Radon-Nykodim Derivatives in the White Noise Theory. In: Mathematical Theory of Control, Lecture Notes in Pure and Applied Mathematics. vol. 142, p. 109-123
  - 5 Germani A, Jetto L (1988). NEW APPROACH TO IMAGE MODELING WITH APPLICATION TO RESTORATION PROBLEMS. In: (a cura di): M. Iri, K. Yajima (Editors), LECTURE NOTES IN CONTROL AND INFORMATION SCIENCES [titolo abbrev.: LECT. NOTES CONTROL INF. SCI.] E100309 - issn: 0170-8643 (attiva dal 1977) lingua: English (Library And Information Sciences) . vol. 113, p. 139-147, BERLIN HEIDELBERG:Springer-Verlag, ISBN: 3-540-19238-7, doi: 10.1007/BFb0042782
  - 4 Germani A, Piccioni M (1987). ERROR ESTIMATE FOR FINITE-ELEMENT APPROXIMATION OF THE ZAKAI EQUATION. In: LECTURE NOTES IN CONTROL AND INFORMATION SCIENCES [titolo abbrev.: LECT. NOTES CONTROL INF. SCI.] E100309 - issn: 0170-8643 (attiva dal 1977) lingua: English (Library And Information Sciences) . vol. 96, p. 33-44, BERLIN HEIDELBERG:Springer-Verlag, ISBN: 3-540-18010-9, doi: 10.1007/BFb0038919
  - 3 Germani A. Editor (1987). Stochastic Modelling and Filtering. vol. 91, BERLIN HEIDELBERG:Springer-Verlag, ISBN: 0-387-17575-X
  - 2 C. Bruni, A. Germani, 'Introduzione alla Teoria della Probabilità', Rapporto Interno R.I.33, Istituto di Analisi dei Sistemi e Informatica, CNR.
  - 1 M. Dalla Mora, A. Germani, C. Manes, 'Introduzione alla teoria dell'identificazione dei sistemi', Euroma La Goliardica, 1997.