

UNIVERSITÀ DEGLI STUDI DELL'AQUILA
Prof. Pierdomenico Pepe
Curriculum scientifico

(Aggiornato il 2025/03/03)

LOOKING FOR Ph.D. STUDENTS:

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SHORT CV

Pierdomenico Pepe, born in 1965 in Sant'Omero, Italy, in 1990 received the Laurea in Electronic Engineering summa cum laude from the University of Ancona, and in 1996 received the Ph.D. in Electronic Engineering from the University of L'Aquila, Italy. In 1991-1992 he served as Second Lieutenant in the Technical Corp of the Italian Army, Rome. In 1992-1993 he served as a Member of the Technical and Scientific Division in the Roland DG Corporation, Martinsicuro, Italy. In 1997-2000 he served as the Technician in the Laboratory of Automatics and Robotics of the University of L'Aquila. In 2000, 2001 and 2004 he held one-semester Visiting Scholar positions at the University of California, Berkeley, at the Georgia Institute of Technology, Atlanta, and at the Polytechnic University, New York, respectively. He is Senior Member of IEEE from 2006 and Member of SIAM from 2001. From March 2001 to September 2013 he was Tenured Assistant Professor on Automatic Control at the School of Engineering of the University of L'Aquila, Italy, where he was teaching the courses Linear Systems Theory, Automatic Control, Regulation and Control Systems, Advanced Control Theory. From October 2013, he is Associate Professor of Automatic Control at the University of L'Aquila. He's teaching the courses Modelling and Simulation of Control Systems and Foundations of Automatic Control. From 2008 he is a member of the Center of Excellence for Research DEWS, L'Aquila, and from 2010 he is Research Associate at the Institute of Systems Analysis and Informatics of the Italian National Research Council, Rome. From march 2007 to june 2012 he was member of the executive council of the Department of Electrical and Information Engineering, University of L'Aquila. From October 2012 to November 2016 he was member of the executive council of the Department of Information Engineering, Computer Science and Mathematics, University of L'Aquila. His main research interests include stability theory, nonlinear control, observers, optimal control, with special emphasis to systems with time-delays, and applications to biomedical, chemical, electrical and mechanical engineering. He has authored or co-authored more than 160 peer-reviewed scientific articles on International Journals and proceedings of International Conferences (the publications on ISI Journals are reported below). He is co-editor of a book in the Springer series LNCIS and of a book

in the Springer series ADD. He is recipient with F. Carravetta and P. Palumbo of Kybernetika Editor's Award 2013. In 2013 he was plenary speaker at the IFAC Joint Conference SSC-TDS-FDA, held in Grenoble. In 2006 he was Chairman and co-Editor of the 6th IFAC Workshop on Time-Delay Systems, held in the City of L'Aquila, Italy. He has served as IPC member in the IFAC Workshops on TDS 2006, 2007 (Nantes, France), 2009 (Sinaia, Romania), 2010 (Praha, Czech Republic), 2012 (Boston, USA), 2015 (Ann Arbor, USA), 2016 (Istanbul, Turkey), 2018 (Budapest, Hungary), in the IFAC Joint Conference SSC-TDS-FDA 2013 (Grenoble, France), in the 3rd IFAC International Conference on Intelligent Control and Automation Science 2013 (Chengdu, China), in the 13th European Control Conference 2014 (Strasbourg, France), in the 15th SIAM Conference on Control and its Applications 2015 (Paris, France), as TPC member in the IEEE Chinese Control and Decision Conference 2011 (Mianyang, China), 2012 (Taiyuan, China), 2013 (Guiyang, China), 2014 (Changsha, China), 2015 (Qingdao, China), 2016 (Yinchuan, China), as IPC member of the SIAM Conference on Control and Its Applications, 2017 (Pittsburgh, PA, USA), of the 29th IEEE Chinese Control and Decision Conference 2017 (Chongqing, China). He is currently serving as IPC member of the 30th IEEE Chinese Control and Decision Conference 2018 (Shenyang, China), of the 15th IFAC Workshop on Time-Delay Systems, 2019 (Sinaia, Romania). From January 2011 to December 2014 he has served as Associate Editor of the IEEE Transactions on Automatic Control. Since November 2011 he is serving as Associate Editor of Systems & Control Letters (Elsevier). Since January 2014 he is serving as Associate Editor of the Journal on Control and Decision (Taylor & Francis). Since December 2015 he is serving as Associate Editor of the SIAM Journal on Control and Optimization. Since January 2017 he is serving as Associate Editor of the IEEE Control Systems Letters. Since December 2014 he is member of the IFAC Technical Committee 2.6 (Distributed Parameter Systems). Outstanding Associate Editor IEEE Control Systems Letters, 2020. In January 2014 he obtained the italian national scientific qualification as full professor on automatic control (ASN 2012). In May 2019 he obtained the italian national scientific qualification as full professor on automatic control (ANS 2018). For complete CV and list of publications please see <https://www.disim.univaq.it/PierdomenicoPepe>

ISI JOURNALS PUBLICATIONS

ISI h-index = 32

SCOPUS h-index = 36

Google-Scholar h-index = 42

Top Italian Scientists Engineering Rank = 310

ANVUR-ASN indexes (2012) = [29.56 36.36 12]

SIDRA-P index (only ISI journals,) > 167.1666

VQR [4-10] = [1 1 1]

VQR [11-14] = [1 0.7]

ANVUR-FFABR index (2017) = 80

ANVUR-ASN indexes (2018) = [44 1429 21]

VQR [15-19] = [A B B B A B A B B A B C]

Stanford Top 2% Listed Years: 2024, 2023, 2022, 2021, 2020

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- 2) A.Germani, C.Manes, P.Pepe, Local Asymptotic Stability for Nonlinear State Feedback Delay Systems, Kybernetika, I.F. 0.178, vol. 36, n. 1, pp. 31--42, 2000 (SIDRA: C1, 1.1547);
- 3) A.Germani, C.Manes, P.Pepe, An Asymptotic State Observer for a Class of Nonlinear Delay Systems, Kybernetika, I.F. 0.316, Special Issue on Advances in Analysis and Control of Time-Delay Systems, vol. 37, n.4, pp. 459--478, 2001 (SIDRA: C1, 1.1547);
- 4) A.Germani, C.Manes, P.Pepe, A New Approach to State Observation of Nonlinear Systems with Delayed Output, IEEE Transactions on Automatic Control, I.F. 1.553, Vol. 47, No. 1, pp. 96--101, January 2002 (SIDRA: A2, 1.731);
- 5) P. Pepe, Preservation of the Full Relative Degree for a Class of Delay Systems under Sampling, ASME Journal of Dynamic Systems, Measurement and Control, I.F. 0.485, Special Issue on Time Delayed Systems, Vol. 125, No. 2, pp. 267--270, June 2003 (SIDRA: C2, 1);
- 6) A. Germani, C. Manes, P. Pepe, Input-Output Linearization with Delay Cancellation for Nonlinear Delay Systems: the Problem of the Internal Stability, International Journal of Robust and Nonlinear Control, Wiley InterScience, I.F. 0.792, Special Issue on Time Delay Systems, Vol.13, N. 9, pp. 909--937, July 2003 (SIDRA: A1, 2.8868);
- 7) P. Pepe, E. I. Verriest, On the Stability of Coupled Delay Differential and Continuous Time Difference Equations, IEEE Transactions on Automatic Control, I.F. 1.896, vol. 48, No. 8, pp. 1422--1427, August 2003 (SIDRA: A2, 2.1213);
- 8) P.Pepe, The Liapunov's Second Method for Continuous Time Difference Equations, International Journal of Robust and Nonlinear Control, Wiley InterScience, I.F. 0.792, Vol. 13, No. 15, pp. 1389--1405, December 2003 (SIDRA: A1, 5);
- 9) P. Pepe, Adaptive Output Tracking for a Class of Nonlinear Time Delay Systems, International Journal of Adaptive Control and Signal Processing, Wiley InterScience, I.F. 0.398, Vol. 18, N. 6, pp. 489-503, August 2004 (SIDRA: B1, 3);
- 10) P. Pepe, On the Asymptotic Stability of Coupled Delay Differential and Continuous Time Difference Equations, Automatica, Elsevier, I.F. 1.693, Vol. 41, No. 1, pp. 107--112, January 2005 (SIDRA: A2, 3);
- 11) A. Germani, P. Pepe, A State Observer for a Class of Nonlinear Systems with Multiple Discrete and Distributed Time Delays, European Journal of Control, Hermes Science Lavoisier, I.F. 0.841, Vol. 11, Issue 3, pp. 196-205, 2005 (SIDRA: B1, 2.1213);
- 12) P. Pepe, Z.-P. Jiang, A Lyapunov-Krasovskii Methodology for ISS and iISS of Time-Delay Systems, Systems & Control Letters, Elsevier, I.F. 1.683, Vol. 55, Issue 12, pp. 1006-1014, 2006 (SIDRA: B1, 2.1213);
- 13) A. Germani, C. Manes, P. Palumbo, P. Pepe, A Robust Approximation Scheme for the LQG Control of an Undamped Flexible Beam with a Tip Mass, European Journal of Control, Hermes Science Lavoisier, I.F. 0.532, Vol. 12, No. 6, pp. 635--651, 2006 (SIDRA: B1, 1.5);
- 14) P. Pepe, On Liapunov-Krasovskii Functionals under Carathéodory Conditions, Automatica, Elsevier, I.F. 2.083, Vol. 43, No. 4, pp. 701-706, 2007 (SIDRA: A2, 3);
- 15) P. Pepe, The Problem of the Absolute Continuity for Lyapunov-Krasovskii Functionals, Transactions on Automatic Control, IEEE, I.F. 2.824, Vol. 52, No. 5, pp. 953--957, 2007 (SIDRA: A2, 3);

- 16) P. Pepe, Z.-P. Jiang, E. Fridman, A New Liapunov-Krasovskii Methodology for Coupled Delay Differential and Difference Equations, *International Journal of Control*, Taylor & Francis, I.F. 1.130, Volume 81, Issue 1, pp. 107 – 115, 2008 (SIDRA: B1, 1.7321);
- 17) P. Pepe, I. Karafyllis, Z.-P. Jiang, On the Liapunov-Krasovskii Methodology for the ISS of Systems Described by Coupled Delay Differential and Difference Equations, *Automatica*, Elsevier, Regular Paper, I.F. 3.178, Vol. 44, Issue 9, pp. 2266-2273, September 2008 (SIDRA: A1, 2.8868);
- 18) N. Yeganefar, P. Pepe, M. Dambrine, Input-to-State Stability of Time-Delay Systems: a Link with Exponential Stability, *IEEE Transactions on Automatic Control*, I.F. 3.293, Vol. 53, Issue 6, pp. 1526-1531, July 2008 (SIDRA: A2, 1.7321);
- 19) I. Karafyllis, P. Pepe, Z.-P. Jiang, Global Output Stability for Systems Described by Retarded Functional Differential Equations: Lyapunov Characterizations, *European Journal of Control*, Hermes Science Lavoisier, I.F. 1.013, Vol. 14, N. 6, pp. 516-536, December 2008 (SIDRA: B1, 1.7321);
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- 21) G. Antonini, P. Pepe, Input-to-State Stability Analysis of Partial Element Equivalent Circuit Models, *IEEE Transactions on Circuits and Systems I: Regular Papers*, I.F. 1.420, Vol. 56, Issue 3, pp. 673-684, 2009 (SIDRA: B1, 2.1213);
- 22) I. Karafyllis, P. Pepe, Z.-P. Jiang, Stability Results for Systems Described by Coupled Retarded Functional Differential Equations and Functional Difference Equations, *Nonlinear Analysis: Theory, Methods & Applications*, Elsevier, I.F. 1.487, Volume 71, Issues 7-8, pp. 3339-3362, 2009 (SIDRA: A1, 2.8868);
- 23) P. Pepe, Input -to-State Stabilization of Stabilizable, Time-Delay, Control-Affine, Nonlinear Systems, *IEEE Transactions on Automatic Control*, I.F. 2.556, Vol. 54, Issue 7, pp. 1688-1693, July 2009 (SIDRA: A2, 3);
- 24) P. Palumbo, P. Pepe, S. Panunzi, A. De Gaetano, Robust Closed-Loop Control of Plasma Glycemia: a Discrete Delay Model Approach, *Discrete and Continuous Dynamical Systems - Series B*, American Institute of Mathematical Sciences, I.F. 0.803, Vol. 12, No. 2, pp. 455-468, 2009 (SIDRA: B1, 1.5);
- 25) G. Pola, P. Pepe, M.D. Di Benedetto, P. Tabuada, Symbolic Models for Nonlinear Time-Delay Systems Using Approximate Bisimulations, *Systems & Control Letters*, Elsevier, I.F. 1.412, Vol. 59, Issue 6, pp. 365-373, June 2010 (SIDRA: B1, 1.5);
- 26) H. Ito, P. Pepe, Z.-P. Jiang, A small-gain condition for iISS of interconnected retarded systems based on Lyapunov-Krasovskii functionals, *Automatica*, Elsevier, I.F. 2.171, Vol. 46, Issue 10, pp. 1646-1656, 2010 (SIDRA: A1, 2.8868);
- 27) M.P. Di Ciccio, M. Bottini, P. Pepe, Digital Control of a Continuous Stirred Tank Reactor, *Mathematical Problems in Engineering*, Hindawi Publishing Corporation, I.F. 0.777, Volume 2011, Article ID 439785, doi:10.1155/2011/439785, 18 pages, , 2011 (SIDRA: B1, 1.7321);
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- 30) P. Pepe, E.I. Verriest, Liapunov Criteria for Stability in Lp Norm of Special Neutral Systems, *Automatica*, Elsevier, I.F. 2.919, Vol. 48, N. 1, pp. 132-138, January 2012 (SIDRA: A2, 2.1213);
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- 36) H. Ito, Z.-P. Jiang, P. Pepe, Construction of Lyapunov-Krasovskii functionals for networks of iISS retarded systems in small-gain formulation, *Automatica*, I.F. 3.132, Vol. 49, Issue 11, pp. 3246-3257, 2013 (SIDRA: A1, 2.8868);
- 37) P. Pepe, On Sontag's Formula for the Input-to-State Practical Stabilization of Retarded Control-Affine Systems, *Systems & Control Letters*, I.F. 1.886, Vol. 62, N. 11, pp. 1018-1025, 2013 (SIDRA: B1, 3).
- 38) P. Pepe, Stabilization in the Sample-and-Hold Sense of Nonlinear Retarded Systems, *SIAM Journal on Control and Optimization*, I.F. 1.463, Vol. 52, N. 5, pp. 3053-3077, 2014 (SIDRA: A1, 5).
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- 45) G. Pola, P. Pepe, M.D. Di Benedetto, Symbolic models for networks of control systems, *IEEE Transactions on Automatic Control*, I.F. 4.270, Vol. 61, N. 11, pp. 3663-3668, 2016 (SIDRA: A2, 1.7320).
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