Dati anagrafici

Paolo Pugliese, nato a Cosenza il 23 Aprile 1964. E-mail: `paolo.pugliese@unical.it`

Afferenza

DIMES, Università della Calabria (Cubo 42/C, quarto piano)

Posizione attuale

Professore Associato, Settore Scientifico-Disciplinare ING-INF/04 – *Automatica*

Posizioni precedentemente ricoperte

- 1991-1993 – Borsista presso l'Istituto per la Sistemistica e l'Informatica del Consiglio Nazionale delle Ricerche, Rende
- 1994-2005 – Ricercatore Universitario del Settore Scientifico-Disciplinare ING-INF/04 (Automatica) nella Facoltà di Ingegneria dell'Università della Calabria

Formazione

Laurea (*cum Laude*) in Ingegneria delle Tecnologie Industriali, Facoltà di Ingegneria, Università della Calabria, 7 Marzo 1990, Relatore Prof. L. Carotenuto

Attività didattica istituzionale attuale

- Corso di *Automazione Industriale*, 6 CFU, Corso di Laurea Magistrale in Ingegneria Gestionale, Università della Calabria (A. A. 2006-2007, -)
- Corso di *Controlli Automatici*, 9 CFU, Corso di Laurea in Ingegneria Gestionale, Università della Calabria (A. A. 2006-2007, -)

Servizi prestati negli Atenei e negli Enti di Ricerca italiani e stranieri

- Membro del Consiglio di Amministrazione dell'Università della Calabria da Novembre 2001 a Ottobre 2005 quale rappresentante dei Ricercatori, e da Novembre 2007 – Ottobre 2009 quale rappresentante dei Professori associati
- Membro della Giunta del Dipartimento di Elettronica, Informatica e Sistemistica della Università della Calabria dal 2000 al 2002
- Membro del Comitato Tecnico-Scientifico della Biblioteca Scientifica d'Ateneo della Università della Calabria dal 1999 al 2001

Elenco delle pubblicazioni

Lavori pubblicati su rivista

1. L. D'Alfonso, W. Lucia, P. Muraca, P. Pugliese, Mobile robot localization via EKF and UKF: A comparison based on real data, *Rob. Auton. Syst.* **74**, pp. 122-127, 2015
2. L. Carotenuto, P. Pugliese, Ya.D. Sergeyev, Maximizing performance and robustness of PI and PID controllers by global optimization, *Int. J. Control Intelligent Systems* **34**(3), pp. 225-235, 2006
3. D. Famularo, P. Pugliese, Ya.D. Sergeyev, Global optimization technique for low-order control design, *Int. J. Systems Sci.* **35**(7), pp. 425-434, 2004
4. A. Eisinberg, G. Franzè, P. Pugliese, M. Ruffolo, On the approximation error in Lagrange interpolation on equal intervals, *J. Comp. Analysis Appl.* **6**(4), pp. 349-356, 2004
5. P. Pugliese, On the normal matrix of the polynomial LS problem over the Chebyshev points, *Linear Algebra and Applications* **378**, pp. 61-69, 2004
6. Ya.D. Sergeyev, D. Famularo, P. Pugliese, Index information algorithm with local tuning for solving multidimensional global optimization problems with multiextremal constraints, *Mathematical Programming* **96**(A), pp. 489-512, 2003

7. Ya.D. Sergeyev, D. Famularo, P. Pugliese, Index Branch and Bound algorithm for Lipschitz univariate global optimization with multiextremal constraints, *J. Global Optimization* **21**(3), pp. 317-341, 2001

8. A. Eisinberg, P. Pugliese, N. Salerno, Vandermonde matrices on integer nodes: the rectangular case, *Numerische Mathematik* **87**(4), pp. 663-674, 2001

9. D. Famularo, P. Pugliese, Ya.D. Sergeyev, A global optimization technique for checking parametric robustness, *Automatica* **35**(9), pp. 1605-1611, 1999

10. A. Eisinberg, G. Franzè, P. Pugliese, Vandermonde matrices on integer nodes, *Numerische Mathematik* **80**(1), pp. 75-85, 1998

11. A. Eisinberg, G. Franzè, P. Pugliese, Vandermonde matrices on Chebyshev points, *Linear Algebra and Applications* **283**(1/3), pp. 205-219, 1998

12. P. Muraca, P. Pugliese, A variable structure regulator for robotic systems, *Automatica* **33**(7), pp. 1423-1426, 1997

13. P. Muraca, P. Pugliese, An adaptive filter using scanning observation with application to a DPS, *Int. J. Adaptive Control and Signal Processing* **8**(6), pp. 543-551, 1994

14. L. Carotenuto, P. Muraca, P. Pugliese, G. Raiconi, State estimation with optimal selection of the output matrix for discrete-time linear systems, *Int. J. Sys. Sci.* **24**(8), pp. 1519-1537, 1993

15. L. Carotenuto, P. Muraca, P. Pugliese, G. Raiconi, Recursive sensor allocation for a class of distributed parameter systems, *Int. J. Modelling Simul.* **12**(4), pp. 117-124, 1992

Capitoli di libri

15. D. Famularo, Ya.D. Sergeyev, P. Pugliese, Test problems for Lipschitz univariate global optimization with multiextremal constraints. In: G. Dzemyda, V. Saltenis and A. Zilinskas, editors, *Stochastic and Global Optimization*, pp. 93-110, Kluwer, 2001

16. D. Famularo, P. Pugliese, Ya.D. Sergeyev, Control system design via global optimization techniques. In: S.G. Tzafestas and G. Schmidt, editors, *Progress in Systems and Robot Analysis and Control Design*, pp. 107-116, Springer-Verlag, 1999

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Lavori pubblicati in atti di congressi

19. L. D'Alfonso, A. Grano, P. Muraca, P. Pugliese, Extended and unscented Kalman filters in a cells-covering method for environment reconstruction, *Proc. ICCA 2019*, Edinburgh, UK, July 2019

20. L. D'Alfonso, A. Grano, P. Muraca, P. Pugliese, A cells covering based method for Simultaneous Localization and Mapping in an unknown indoor environment, *Proc. European Control Conf.*, Linz, Austria, July 2015

19. L. D'Alfonso, A. Grano, P. Muraca, P. Pugliese, A new polynomial based SLAM algorithm for a mobile robot in an unknown indoor environment, *Proc. IEEE Conf. on Decision and Control*, Los Angeles, CA, December 2014

20. L. D'Alfonso, A. Grano, P. Muraca, P. Pugliese, A decentralized Polynomial based SLAM algorithm for a team of mobile robots, *Proc. IFAC World Congr. 2014*, Cape Town, SA, August 2014

21. L. D'Alfonso, E. Garone, P. Muraca, P. Pugliese, P3P and P2P Problems with known camera and object vertical directions, *Proc. IEEE Mediterranean Control Conf.*, Chania, Greece, June 2013

22. L. D'Alfonso, E. Garone, P. Muraca, P. Pugliese, On the use of the inclinometers in the PnP Problem, *Proc. European Control Conf.*, Zurich, Switzerland, July 2013

23. L. D'Alfonso, A. Grano, P. Muraca, P. Pugliese, A polynomial based SLAM algorithm for mobile robots using ultrasonic sensors - Experimental Results, *Proc. ICAR 2013*, Montevideo, Uruguay, November 2013

24. L. D'Alfonso, A. Grano, P. Muraca, P. Pugliese, Mobile robot localization in an unknown environment using sonar sensors and an incidence angle based sensors switching policy - Experimental results, *Proc. ICCA 2013*, Hangzhou, China, June 2013

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30. L. D'Alfonso, P. Muraca, P. Pugliese, A new Extended Kalman Filter based on actual local information for mobile robots, *Proc. ACD 2011*, Budapest, Hungary, 2011

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32. P. Muraca, P. Pugliese, G. Rocca, Nonlinear state estimation over wireless sensor networks. *Proc. European Control Conf.*, Budapest, Hungary, August 2009

33. P. Muraca, P. Pugliese, State Estimation for Distributed Parameter Systems under intermittent observations, *Proc. ICCA 2009*, Christchurch, New Zealand, December 2009

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47. E. Condello, P. Muraca, C. Picardi, P. Pugliese, A VSS theory based regulator for robotic systems with fuzzy parameter adaptation, *Proc. IMACS MATHMOD*, Wien, Austria, February 1994

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51. P. Muraca, P. Pugliese, Application of variable structure system theory to a mechanical system, *Proc. IEEE Conf. on Decision and Control*, Tucson, AZ, December 1992

52. L. Carotenuto, P. Muraca, P. Pugliese, G. Raiconi, Recursive sensor allocation for a class of distributed parameter systems, *Proc. IASTED Int. Symp. on Modelling, Simulation and Optimization*, Montreal, Canada, May 1990