Giacomo Baggio

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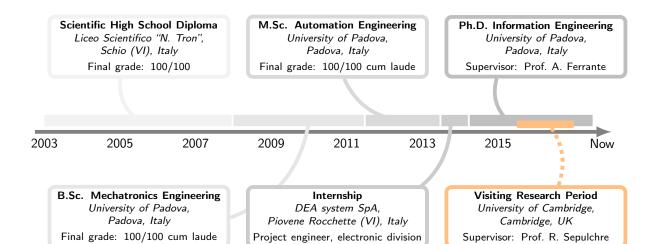
Skype: giacomo.baggio

Current position: Ph.D. student at Univ. of Padova

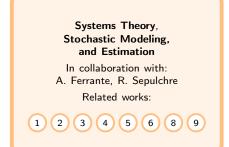
B.Sc. Engineering M.Sc. Engineering Ph.D. student



Education & Professional Experience



Research Interests



Control over Networks

In collaboration with: S. Zampieri
Related works: 7

Quantum Information and Control

In collaboration with: F. Ticozzi
Related works: 10

Languages

Italian Mother tongue English

Good proficiency
(TOEFL iBT 105/120 – 2011)

French

Basic

(Middle school level)

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Computer Skills

Programming		Operative Systems		Typesetting		Software
>C >C++ >Python >Java	•	>Mac OSX >Linux (Ubuntu) >Windows	•••	>T _E X/L ^M T _E X >Tikz/PGF >HTML/CSS	••••	>Matlab/Simulink •••• >Mathematica ••

Honors & Awards

- Giudizio di Eccezionalità di Tesi, Department of Information Engineering, University of Padova, 2014, special mention for outstanding M. Sc. thesis.
- Premio di Studio "Fratelli Cesare e Dante Bolognesi", 2007, Comune di Schio (VI), scolarship awarded to the best high-school students.

Other Activities

- Reviewer for Automatica, IEEE Transactions on Automatic Control, IEEE Transactions on Control of Network Systems, System & Control Letters, IEEE Control and Decision Conference, IEEE American Control Conference, IEEE European Control Conference, IFAC World Congress.
- Teaching Supervisor for the M. Eng. course "3F1 Signals and Systems" @ Department of Engineering, University of Cambridge (UK), and the M. Eng. course "Estimation and Filtering" @ Department of Information Engineering, Univ. of Padova.

Publications & Preprints

arXiv: http://arxiv.org/abs/1612.03570

- B. Zhu and G. Baggio. "On the Existence of a Solution to a Spectral Estimation Problem à la Byrnes–Georgiou–Lindquist". (Submitted for publication), 2017. arXiv: http://arxiv.org/abs/1709.09012
- G. Baggio, A. Ferrante, and R. Sepulchre. "Finslerian Metrics in the Cone of Spectral Densities". (Submitted for publication), 2017. arXiv: http://arxiv.org/abs/1708.02818
- G. Baggio. "Further Results on the Convergence of the Pavon–Ferrante Algorithm for Spectral Estimation". *IEEE Transactions on Automatic Control*, to appear, 2018.
- G. Baggio and R. Sepulchre. "Stochastic LTI Processes and Their Invariance Properties: A Behavioral Perspective". Proceedings of IFAC World Congress, 2017.
- G. Baggio. "On the Convergence of a Matricial Fixed-Point Iteration Connected with Spectral Estimation". Proceedings of IFAC World Congress, 2017.

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- G. Baggio and A. Ferrante. "Parametrization of Minimal Spectral Factors of Discrete-Time Rational Spectral Densities". (Submitted for publication), 2017. arXiv: http://arxiv.org/abs/1609.02711
- N. Bof, G. Baggio, and S. Zampieri. "On the Role of Network Centrality in the Controllability of Complex Networks". *IEEE Transactions on Control of Network Systems*. vol. 4, no. 3, pp. 643-653, Sept. 2017.

Online: http://ieeexplore.ieee.org/document/7447762 arXiv: http://arxiv.org/abs/1509.04154.

- G. Baggio and A. Ferrante. "On Minimal Spectral Factors with Zeroes and Poles Lying on Prescribed Regions". *IEEE Transactions on Automatic Control*, vol. 61, no. 8, pp. 2251-2255, Aug. 2016. Online: http://ieeexplore.ieee.org/document/7286755 arXiv: http://arxiv.org/abs/1509.04154.
- G. Baggio and A. Ferrante. "On the Factorization of Rational Discrete-Time Spectral Densities." *IEEE Transactions on Automatic Control*, vol. 61, no. 4, pp. 969-981, April 2016. Online: http://ieeexplore.ieee.org/document/7128353 arXiv: http://arxiv.org/abs/1410.0765.
- G. Baggio, F. Ticozzi, and L. Viola. "Quantum State Preparation by Controlled Dissipation in Finite Time: From Classical to Quantum Controllers". *Decision and Control (CDC), 2012 IEEE 51st Annual Conference on*, pages 1072–1077, Dec 2012.

Online: http://ieeexplore.ieee.org/document/6426787 arXiv: http://arxiv.org/abs/1209.5568.

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