Curriculum Vitae et Studiorum
Valerio Cusimano

PhD, Biomedical Engineering, 2012
MSc, Biomedical Engineering, 2008
BSc, Clinical Engineering, 2005

Main affiliation
Institute for Systems Analysis and Computer Science (IASI) "Antonio Ruberti", Italian National Research Council (CNR)

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Research Experience and Education

- **2017 – present**
  Post-doctoral Researcher Fellowship, CNR-IASI, Rome, Italy. CISAS Project. Research topic: Mathematical Modeling of Biological Systems.
- **2013 – 2016**
  Post-doctoral Researcher Fellowship, CNR-IASI, Rome, Italy. SysBio Project. Research topic: Dynamic System Identification and Filtering, Systems Biology.
- **2009-2012**
  PhD in Biomedical Engineering, University "Campus Bio-Medico di Roma", Rome, Italy. Thesis: New methodologies for the filtering and state estimation problems in bio-medical applications.
- **2002-2008**
  Bachelor degree in Clinical Engineering and Master degree in Biomedical Engineering, University "Campus Bio-Medico di Roma", Rome, Italy.

Scientific, Professional and Editorial Activities

- Author of over 20 peer-reviewed international publications.
- Member of IEEE (Institute of Electrical and Electronics Engineers), IEEE Control Systems Society.
- Reviewer for IEEE journals and conferences, 2009-present.
- Teaching assistan, course of Control of Biological Systems, University "Campus Bio-Medico di Roma", 2009- present.

Relevant Publications

International Journals:

- P. Palumbo, M. Vanoni, V. Cusimano, S. Busti, F. Marano, C. Manes, L. Alberghina, Whi5 phosphorylation embedded in the G1/S network dynamically controls critical cell size and cell fate, Nature Communications, Volume 7, April 2016, doi:10.1038/ncomms11372
- F. Conte, V. Cusimano , A. Germani, Robust planar tracking via a virtual measurement approach, European Journal of Control, Volume 19, Issue 2, March 2013, Pages 146–156, doi:10.1016/j.ejcon.2012.04.001
- F. Cacace, P. Paci, V. Cusimano, A. Germani, L. Farina, Stochastic Modeling of Expression Kinetics Identifies Messenger Half-Lives and Reveals Sequential Waves of Co-ordinated Transcription and Decay, Plos Computational Biology, doi: 10.1371/journal.pcbi.1002772
- F. Cacacea, V. Cusimanoa, L. Di Paolaa, A. Germania, Observer-based techniques for the identification and analysis of avascular tumor growth, Mathematical Biosciences, doi:10.1016/j.mbs.2011.10.002
- M. Casale, M. Pappacena, R. Setola, P. Soda, V. Cusimano, M. Vitali, R. Mladina, F. Salvinelli, Video-rhino-hygrometer: A new method for evaluation of nasal breathing after nasal surgery, American Journal of Rhinology & Allergy, doi:10.2500/ajra.2010.24.3505

Patent:

- M. Casale, F. Salvinelli, R. Setola, P. Soda, V. Cusimano, Apparatus and method for videorhinohygrometric (vri) measures, US 20090221927 A1