

**EUROPEAN
CURRICULUM VITAE
FORMAT**



PERSONAL INFORMATION

Name
Address
Telephone
Fax
E-mail
Website

Nationality
Date of birth

FRANCESCO AMATO

OMISSIS

GENERAL RESEARCH INTERESTS

Control theory and applications
Systems and Synthetic Biology
Biomedical Signal and Image Processing
Modeling and Management of Healthcare Systems

BIBLIOMETRIC SUMMARY DATA

- Total international publications [362] source scholar.google.com
- Total citations [8176] source scholar.google.com
- Total cited paper [259] source scholar.google.com
- H-index [41] source scholar.google.com

EDUCATION AND TRAINING

- Dates (from – to) 1990-1994
- Name and type of organization providing education and training Università degli studi di Napoli Federico II
- Principal subjects/occupational skills covered PhD student
- Title of qualification awarded PhD in Electronic Engineering
- Dates (from – to) 1983-1990
- Name and type of organization Università degli studi di Napoli Federico II

providing education and training

- Principal subjects/occupational skills covered
- Title of qualification awarded

PRINCIPAL POSITIONS

- Dates (from – to)
- Name and address of employer
 - Type of business or sector
 - Occupation or position held
- Main activities and responsibilities

Student

Laurea degree in Electronic Engineering

2018-

Università degli Studi di Napoli Federico II

Educational

Full Professor of Biomedical Engineering

Teaching and research; dean of the School of Biomedical Engineering

- Dates (from – to)

- Name and address of employer
 - Type of business or sector
 - Occupation or position held
- Main activities and responsibilities

2003-18

Università degli studi Magna Græcia di Catanzaro

Educational

Full Professor of Automatic Control (2003-10); Full Professor of Biomedical Engineering (2010-18)

Teaching and research; dean of the School of Biomedical Engineering; coordinator of the PhD program in Biomedical and Computer Engineering; vice-president of the School of Medicine and Surgery

- Dates (from – to)

- Name and address of employer
 - Type of business or sector
 - Occupation or position held
- Main activities and responsibilities

2001-03

Università degli Studi Mediterranea di Reggio Calabria

Educational

Full Professor of Automatic Control

Teaching and research; coordinator of the PhD program in Electrical and Automation Engineering

ADDITIONAL POSITIONS

- Dates (from – to)
- Name and address of employer
 - Type of business or sector
 - Occupation or position held
- Main activities and responsibilities

1998-2001

Università degli Studi di Napoli Federico II

Educational

Associate Professor of Automatic Control

Teaching and research

VISITING POSITIONS

- Dates (from – to)
- Name and address of employer
 - Type of business or sector
 - Occupation or position held
- Main activities and responsibilities

1992-93

Purdue University (Indiana, USA)

Educational

Visiting Scholar

Research

TEACHING

- Current
- Past

Biomedical Signal Analysis; Foundation of Bioengineering; Physiological Control Systems
Systems Theory; Automatic Control

GRANTS & PROJECTS

- Dates (from – to)
- Name of the project
 - Description
 - Total grant

2012-16

title: Modelli innovativi di riparazione per rigenerazione di tessuti in traumi ortopedici
Funded by the Ministry of University and Research under the FIRB program

PI Università di Catanzaro

[€]

• Dates (from – to)	2010-13
• Name of the project	Brain-computer interface devices to support individual autonomy in locked-in individuals (BRINDISYS) [†] Funded by ARISLA
• Description	PI Università di Catanzaro
• Total grant	[129000 €]

SELECTED PUBLICATIONS AND RESEARCH REPORTS

- [1] A. M. Ponsiglione, Francesco Amato*, M. Romano*, Multiparametric Investigation of Dynamics in Fetal Heart Rate Signals, *Bioengineering*, 9, 8, 1—17, 2021.
- [2] A. M. Ponsiglione, C. Cosentino, G. Cesarelli, F. Amato, M. Romano, A Comprehensive Review of Techniques for Processing and Analyzing Fetal Heart Rate Signals, *Sensors*, 21, 6136, 2021.
- [3] A. Procopio, S. De Rosa, F. Montefusco, G. Canino, A. Merola, J. Sabatino, J. Ielapi, C. Indolfi, F. Amato, C. Cosentino, CBRA: Cardiac biomarkers release analyzer, *Computer Methods and Programs in Biomedicine*, 204, 10.1016/j.cmpb.2021.106037, 2021.
- [4] A. Procopio, S. De Rosa, C. Covello, A. Merola, J. Sabatino, A. De Luca, C. Liebetrau, C. W. Hamm, C. Indolfi, F. Amato, C. Cosentino, Estimation of the acute myocardial infarction onset time based on time-course acquisitions, *Annals of Biomedical Engineering*, <https://doi.org/10.1007/s10439-020-02568-z>, 2020.
- [5] C. Ricciardi, G. Improta, F. Amato, G. Cesarelli, M. Romano, Classifying the type of delivery from cardiocographic signals: A machine learning approach, *Computer Methods and Programs in Biomedicine*, 196, 2020.
- [6] A. Procopio, S. De Rosa, M. R. García, C. Covello, A. Merola, J. Sabatino, A. De Luca, C. Indolfi, F. Amato, C. Cosentino, Experimental Modeling and Identification of Cardiac Biomarkers Release in Acute Myocardial Infarction, *IEEE Trans. Contr. Syst. Tech.*, 28(1), 183—195, 2020.
- [7] M. F. Spadea, G. Pileggi, P. Zaffino, P. Salome, C. Catana, D. Izquierdo-Garcia, F. Amato, J. Seco, Deep Convolution Neural Network (DCNN) Multiplane Approach to Synthetic CT Generation From MR images Application in Brain Proton Therapy, *Int. Journal of Radiation Oncology Biology Physics*, 105, 495—503, 2019.
- [8] F. Amato, R. Ambrosino, M. Ariola, G. De Tommasi, A. Pironti, On the finite-time boundedness of linear systems, *Automatica*, (107), 454-466, 2019.
- [9] A. Melina, N. N. Dinh, B. Tafuri, G. Schipani, S. Nisticò, C. Cosentino, F. Amato, D. Thiboutot, A. Cherubini, Artificial Intelligence for the Objective Evaluation of Acne Investigator Global Assessment, *J. of Drugs in Dermatology*, Vol. 17(9), 602—605, 2018.
- [10] G. Pileggi, C. Speier, G. C. Sharp, D. Izquierdo Garcia, C. Catana, J. Pursley, F. Amato, J. Seco, M. F. Spadea, Proton Range shift analysis on brain pseudo-CT generated from T1 and T2 MR, *Acta Oncologica*, 1—11, 2018.
- [11] P. Zaffino, D. Ciardo, P. Raudaschl, K. Fritscher, R. Ricotti, D. Alterio, G. Marvaso, C. Fodor, G. Baroni, F. Amato, R. Orecchia, B. A. Jereczek-Fossa, G. C. Sharp, M. F. Spadea, Multi atlas based segmentation: should we prefer the best atlas group over the group of best atlases?, *Physics in Medicine & Biology*, 63, 1—9, 2018.
- [12] A. Merola, D. Colacino, C. Cosentino, F. Amato, Model-based tracking control design, implementation of embedded digital controller and testing of a biomechatronic device for robotic rehabilitation, *Mechatronics*, 52, 70—77, 2018.
- [13] V. Onesto, R. Narducci, F. Amato, L. Cancedda, F. Gentile, The effect of connectivity on information in neural networks, *Integrative Biology*, 121-127, 2018.
- [14] F. Amato, M. Darouach, G. De Tommasi, Finite-time

stabilizability, detectability, and dynamic output feedback finite-time stabilization of linear systems, *IEEE Trans. Auto. Contr.*, 6521--6528, 2017.

- [15] V. Onesto, L. Cancedda, M. L. Coluccio, M. Nanni, M. Pesce, N. Malara, M. Cesarelli, E. Di Fabrizio, F. Amato, F. Gentile, Nanotopography Enhances Communication in Neural Cells Networks, *Scientific Reports*, 2017.
- [16] M. Romano, P. Bifulco, A. M. Ponsiglione, G. D. Gargiulo, F. Amato, M. Cesarelli, Evaluation of floatingline and foetal heart rate variability, *J. Biomedical Proc. Contr.*, 2017.
- [17] A. Cherubini, M. E. Caligiuri, P. Peran, U. Sabatini, C. Cosentino, F. Amato, Importance of Multimodal MRI in Characterizing Brain Tissue and its Potential Application for Individual Age Prediction, *IEEE J. Biomedical Health Inf.* 1232—39, September 2016.
- [18] V. Onesto, C. Cosentino, E. Di Fabrizio, M. Cesarelli, F. Amato, F. Gentile, Information in a network of neuronal cells: effect of cell density and short-term depression, *Biomed Reseach International*, June 2016.

PERSONAL SKILLS AND COMPETENCES

*Acquired in the course of life and career
but not necessarily covered by formal
certificates and diplomas.*

MOTHER TONGUE

ITALIAN

OTHER LANGUAGES

- Reading skills
- Writing skills
- Verbal skills

ENGLISH

EXCELLENT

EXCELLENT

EXCELLENT

SOCIAL SKILLS AND COMPETENCES

*Living and working with other people, in
multicultural environments, in positions
where communication is important and
situations where teamwork is essential.*

[Describe these competences and indicate where they were acquired.]

ORGANISATIONAL SKILLS AND COMPETENCES

*Coordination and administration of
people, projects and budgets; at work, in
voluntary work.*

[Describe these competences and indicate where they were acquired.]

According to law 679/2016 of the Regulation of the European Parliament of 27th April 2016,
I hereby express my consent to process and use my data provided in this CV.

Naples, 04/05/2022

Francesco Amato

Signature

OMISSIS