

PERSONAL INFORMATION	Francesco Costantino	
CURRENT POSITION SSD (if applicable)	Associate professor	
Research topics/experiences	Main research activities: business analysis and evaluation, supply chain management and business strategies, simulation tools and expert systems for production, maintenance and logistics, analysis of financial systems for industrial investment, integrated approaches to compliance & risk management and resilience engineering, smart manufacturing implementation and Industry 4.0 deployment tools. Simulation, Modelling, Expert Systems, Business Intelligence, Machine Learning, Computer Vision	
SCIENTIFIC / TECHNICAL QUALIFICATION (source: Scopus)	H-index:	28
	No. publications:	118
	No. citations:	2590
THEMATIC AREA KEYWORDS (it is possible to select one or more than one thematic area)	Energy transition:	
	Digital transition:	X
	Bio-pharma & health:	

EDUCATION AND TRAINING

2005	PhD in Industrial Production Engineering, Sapienza, University of Rome
2003	Master in Quality Management Engineering, Sapienza, University of Rome
2009	MSc in Mechanical Engineering, Sapienza, University of Rome

WORK EXPERIENCE

since 2020	<p>Associate Professor</p> <p>Sapienza University of Rome (Italy) – Dept. of Mechanical and Aerospace Engineering</p> <ul style="list-style-type: none"> Research activity in ING-IND/17 Sector (Industrial Systems Engineering), Teaching of Industrial Plants, of Operations Management, and of Smart Factory for Management Engineering.
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2006-2020	<p>Assistant Professor</p> <p>Sapienza University of Rome (Italy) – Dept. of Mechanical and Aerospace Engineering</p> <ul style="list-style-type: none"> Research activity in ING-IND/17 Sector (Industrial Systems Engineering), Teaching of Industrial Plants, of Operations Management, and of Maintenance Management for Management and Mechanical Engineering
Since 2010	<p>Partner</p> <p>aiComply s.r.l. (Sapienza University of Rome (Italy) spin-off and start-up)</p> <ul style="list-style-type: none"> Scientific Committee and Account Manager for the company. Main activities are related to Governance, Risk and Compliance Management of organizations, digital transformation of processes and change management plans

MAIN ROLES AND RESPONSIBILITIES

Since 2020	<p>Director of the Advanced Training Courses “Technologies, organizations, individuals and behaviors in the fourth industrial revolution for occupational health and safety purposes”</p> <p>Sapienza University of Rome (Italy)</p>
Since 2020	<p>Board member of the Advanced Professional Courses “Integrated health and safety management in the evolving world of work”</p> <p>Sapienza University of Rome (Italy)</p>

SERVICE TO NATIONAL AND INTERNATIONAL COMMUNITY

Since 2018	<p>National expert in the ISO TC 184 “Automation systems and integration”, referring to UNINFO CT523 “Industrial Automation”.</p> <p>ISO</p>
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Since 2018	National expert in the ISO working groups ISO/IEC JWG21 "Smart Manufacturing Reference Model" and ISO/TC184/SC5/SG6 "Mass Customization". ISO
Since 2018	President of the impartiality committee for the certification in accordance with European Directives on Directives 2014/68/UE e 2010/35/UE T-PED. - INAIL.

TEACHING EXPERIENCE

From 2020 to present	Teaching in: Smart Factory , for M.Sc. Course in Management Engineering - Sapienza University of Rome
Since 2015	Teaching in: Operations Management for M.Sc. Course in Management Engineering - Sapienza University of Rome
Since 2007	Member of the Industrial Production Engineering Ph.D. Collegium. Sapienza University of Rome
Since 2005	Teaching in: Industrial Plants for B.S. Course in Management Engineering - Sapienza University of Rome
From 2011 to 2014	Teaching in: Maintenance Management for M.Sc. Course in Management Engineering, and for M.Sc. Course in Mechanical Engineering - Sapienza University of Rome

MAIN RESEARCH
EXPERIENCE

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2020	Principal Investigator "Risk analysis and mitigation tools for the health and safety in digitalized work" (INAIL-BRIC)
2020	Research team member "Smart manufacturing for future constellations", founded by European Space Agency
2019	Scientific director "Development of smart solutions through Digital Twin methodologies to increase safety of workman in production plant maintenance activities" (INAIL-BRIC)
2019	Scientific director - SAFERA "A framework for the development of Human-Centred Safety Crowd-Sensitive Indicators in Enterprises (H(CS)2I)" European Commission
2017	Scientific director – "Supply Chain Productivity" funded by BNL-BNP Paribas

OTHER RELEVANT EXPERIENCES

2018	Qualification as Full Professor in the scientific sector "Industrial systems engineering".
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- Publications** Quatrini, E., Costantino, F., Di Gravio, G., Patriarca, R.
Machine learning for anomaly detection and process phase classification to improve safety and maintenance activities
(2020) Journal of Manufacturing Systems, 56, pp. 117-132.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85086078627&doi=10.1016%2fj.jmsy.2020.05.013&partnerID=40&md5=589b1c99bd658caaaa0ca1a7a6b20651>
- Bevilacqua, M., Bottani, E., Ciarapica, F.E., Costantino, F., Donato, L.D., Ferraro, A., Mazzuto, G., Monteriù, A., Nardini, G., Ortenzi, M., Paroncini, M., Pirozzi, M., Prist, M., Quatrini, E., Tronci, M., Vignali, G.
Digital twin reference model development to prevent operators' risk in process plants
(2020) Sustainability (Switzerland), 12 (3), art. no. 1088, .
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85081226177&doi=10.3390%2fsu12031088&partnerID=40&md5=da557040181a0a785036d24ae1bbb48a>
- Costantino, F., Di Gravio, G., Patriarca, R., Petrella, L.
Spare parts management for irregular demand items
(2018) Omega (United Kingdom), 81, pp. 57-66.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-85030483331&doi=10.1016%2fj.omega.2017.09.009&partnerID=40&md5=10360e0e6e443d77f291f7f4913bfe79>
- Costantino, F., Di Gravio, G., Nonino, F.
Project selection in project portfolio management: An artificial neural network model based on critical success factors
(2015) International Journal of Project Management, 33 (8), art. no. 1800, pp. 1744-1754.
<https://www.scopus.com/inward/record.uri?eid=2-s2.0-84943584181&doi=10.1016%2fj.ijproman.2015.07.003&partnerID=40&md5=51e63446bceb2c24780f0752051bba5a>

Roma 08 febbraio 2024

<p>Firma Prof. Francesco COSTANTINO (firma autografa omessa ai sensi dell'art. 3 del D.lgs. n. 39/1993)</p>

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