Santa Di Cataldo – Curriculum Vitae

Personal Information

First Name: Santa
Family Name: Di Cataldo

Citizenship: Italian
Date (dd, mm, yy) and place of birth: 10, 05, 1982 - Torino, Italy

Work Experience

Jan 2020 – present   Politecnico di Torino   Torino, Italy
Associate Professor at Dept. of Control and Computer Engineering

Jan 2017 – Jan 2020   Politecnico di Torino   Torino, Italy
Assistant Professor with tenure track (RTD-b) at Dept. of Control and Computer Engineering

Jan 2016 – Jan 2017   Politecnico di Torino   Torino, Italy
Assistant Professor (RTD-a) at Dept. of Control and Computer Engineering

Jan 2012 – Dec 2015   Politecnico di Torino   Torino, Italy
Post-doctoral Research Assistant at EDA Group, Dept. of Control and Computer Engineering

Jan 2011 – Dec 2011   Politecnico di Torino   Torino, Italy
Research Assistant at EDA Group, Dept. of Control and Computer Engineering

Feb 2007 – Dec 2007   Politecnico di Torino   Torino, Italy
Research Assistant at EDA Group, Dept. of Control and Computer Engineering

Education

2008-2010   Politecnico di Torino   Torino, Italy
PhD in Systems and Computer Engineering (Ingegneria Informatica e dei Sistemi)
Official length of the program (yy): 3
Date of award (dd,mm,yy): 11, 04, 2011
PhD Thesis: Image Processing Techniques for Histopathology (Tecniche di Image Processing per Applicazioni Istopatologiche)

2004–2006   Politecnico di Torino   Torino, Italy
MSc in Biomedical Engineering (Laurea Specialistica in Ingegneria Biomedica)
Official length of the program (yy): 2
Date of award (dd,mm,yy): 21, 12, 2006
Score: 110/110 summa cum laude

Visiting

Mar 2018 – May 2018   Nanyang Technological University (NTU)   Singapore
Visiting research fellow at Hardware & Embedded Systems Laboratory, School of Computer Science and Engineering
Research fellowship under the program DANTE: Data Analytics with Emerging Technologies (Joint Projects for the Internationalization of Research, call 2017)

Sep 2010 – Feb 2011	Philips Healthcare	Best, Netherlands

Intern at Advanced Development MRI Division
Research internship on image processing techniques for brain MRI

Teaching activity

Main lecturer:
- High-throughput biological data analysis, doctorate course (20 hs), language: English, 2017-2018
- Informatica, BSc degree course (8CFU), Language: Italian, 2018-2019, 2019-2020, 2020-2021, 2021-2022
- Programming Techniques, BSc degree course (6CFU), Language: English, 2020-2021, 2021-2022
- Machine Learning with Applications, MSc degree course (6CFU), Language: English, 2021-2022
- Basics of AI and ML (theory and models), 2nd Level Specializing Master's Programme in Artificial Intelligence & Cloud: Hands-on Innovation, Language: English, 2020-2021, 2021-2022

Guest lecturer:
- Methods and tools for bioinformatics, doctorate course (20 hours), language: English, 2010-2011, 2011-2012
- ICT platforms for facilitating the integration of Additive Manufacturing in traditional manufacturing processes (16 hs), master in Additive Manufacturing, language: English, 2016-2017, 2017-2018, 2018-2019

Teaching assistant:
- Informatica, laurea degree course (5CFU), Cod. 06BHDFJ, language: Italian, 2008-2009
- Computer Sciences, BSc degree course (5CFU), Cod. 02JCJFJ, language: English, 2009-2010
- Computer Sciences, Bsc degree course (8CFU), Cod. 04JCJLI, language: English, 2010-2011
- Informatica, Bsc degree course (5CFU), Cod. 12BHDLZ, language: Italian, 2011-2012, 2012-2013, 2013-2014, 2014-2015, 2015-2016, 2016-2017, 2017-2018
- Bioinformatics, Msc degree course (6CFU), Cod. 01OVFOQ, language: English, 2016-2017, 2017-2018, 2018-2019, 2019-2020, 2020-21
- Inference in biological systems, Msc degree course (6CFU), Cod. 01TYLPF, language: English, 2019-2020

Reviewer activity

Reviewer for Funded Projects proposals:
- Call for Proposals **"Interdisciplinary approaches in oncogenic processes and therapeutic perspectives: Contributions of mathematics and informatics to oncology"**, ITMO Cancer, French National Alliance for Life and Health (August 2019)

Reviewer for Journals:
- Transactions on Medical Imaging (IEEE)
- Transactions on Information Technologies in Biomedicine (IEEE)
- Journal of Biomedical and Health Informatics (IEEE)
- Transactions on Computers (IEEE)
- Transactions on Computer-Aided Design of Integrated Circuits and Systems (IEEE)
- Computer Methods and Programs in Biomedicine (Elsevier)
- Opto-electronics Review (Springer-Verlag Heidelberg)
- Biomedical Signal Processing and Control (Elsevier)
- Pattern Recognition Letters (Elsevier)
- Artificial Intelligence in Medicine (Elsevier)
- Micron (Elsevier)
- Journal of Medical Imaging and Health Informatics (American Scientific)
- International Journal of Medicine and Medical Sciences
- Expert Systems and Applications (Elsevier)

SANTA DI CATALDO – Curriculum Vitae

Contribution to organization of conferences	**TPC (Technical Program Committee) member of international conferences:** - ICBSP 2018, 3rd International Conference on Biomedical Imaging, Signal Processing (ICBSP 2018 - Bioinformatics 2017,2018, 2019, 2020 (International Conference on Bioinformatics Models, Methods and Algorithms) - IEEE LCS 2017 (IEEE Life Sciences Conference) - IEEE CBMS (International Symposium on Computer-Based Medical Systems), 2014 to 2018
Editorial activity	Guest Editor of the Special Issue of Proceedings of the IEEE: Leading ICT technologies for Smart Manufacturing: facing the new challenges and opportunities of the 4th Industrial Revolution, 2021
Awards	- Premio Donna Innovazione Piemonte, 2010 for the project "Biossol", presented at Start Cup Torino Piemonte 2010 (October 2010) - Best paper award nomination at the international conference BIOSTEC / BIOINFORMATICS 2013 - Best paper award nomination at the international conference BIOSTEC / BIOIMAGING 2018
Research interests	- Image processing - Image texture analysis - Biological image analysis - Pattern Recognition, Machine Learning and Deep Learning - Artificial Intelligence applied to biological and industrial applications - Machine learning applied to smart manufacturing and additive manufacturing
Languages	- Italian: mother tongue - English: proficient user (level C1) - French: basic
Publications	See the updated list at: https://scholar.google.it/citations?user=O0yEdHsAAAAJ&hl=it

Signature *:

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