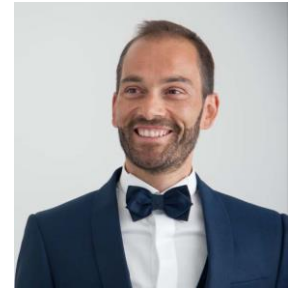


# Pierluigi DELLA VECCHIA

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Birthday: 13/04/1984 at Avellino (Italy)



## Aerospace Engineer, PhD, Assistant Professor

### EDUCATION

- 2017 • **National Academic Qualification as Associate Professor**
- June 2013 • **Post Doc in Aircraft Design** at "University of Naples Federico II"(Italy), Department  
December 2015 of Industrial Engineering.
- March 2010 • **PhD in Aerospace, Naval and Quality Engineering** at "University of Naples Federico  
March 2013 II"(Italy).
- October 2003 • **Master's and bachelor's in aerospace and Astronautic Engineering (Bac+5)**  
December 2008 at "University of Naples Federico II"(Italy) with note 110/110 cum laude.
- Majors:** *Aircraft preliminary Design, Aerodynamic Analysis and Optimization, Computational Flight Dynamic, Flight Physics, Flight Tests, Aeronautic Structures, Flight Control System.*

### WORK EXPERIENCE

- December 2015 - **Department of Industrial Engineering, University of Naples Federico II, Italy**  
Today Assistant Professor in Flight Mechanics:  
**Majors:**
  - Aircraft Design, Collaborative Design, MDO
  - Flight Tests
  - Applied aerodynamics
  - Wind tunnel tests
- June 2013 - **Department of Industrial Engineering, University of Naples Federico II, Italy**  
December 2015 Post-Doc fellowship:  
**Majors:**
  - Aircraft Design, Aerodynamic design and analysis on new commuter 11-seat aircraft
  - Winglet and tail plane design
  - Wind tunnel tests
- April-May 2013 **Department of Aerospace Engineering, University of Naples Federico II, Italy**  
Cooperation Agreement:  
**Majors:**
  - Aerodynamic design and analysis on new commuter 11-seat aircraft
  - Winglet and tail plane design
  - Wind tunnel tests
- July-Sep. 2011 **Department of Aerospace Engineering, University of Naples Federico II, Italy**  
Cooperation Agreement:  
**Majors:**
  - Research support for the development of CAD drawings and CATIA
  - Creating grid-based aerodynamic research
  - Writing English technical and scientific documentation
- Sep.-Oct. 2010 **Department of Aerospace Engineering, University of Naples Federico II, Italy**  
Cooperation Agreement: Analysis of a next generation regional transport aircraft  
**Majors:**
  - Analysis of the aircraft performances
  - Design of the aircraft control surfaces (flap, ailerons, elevator, rudder)

Feb. 2009-  
Mar. 2010 **Department of Aerospace Engineering, University of Naples Federico II, Italy**  
*Researcher in Aircraft Preliminary Design and aerodynamic optimization.*  
*Winner of two scholarships about:*

1. *Aerodynamic Analysis and optimization of aerodynamic drag on a regional turboprop (Agreement with A.T.R France).*
2. *Analysis and aerodynamic design of components for N.G.T.P Aircraft (Agreement with A.T.R. France).*

**Majors:**

- Optimization of Aerodynamic configuration for aircraft of the general aviation.
- Development of preliminary design and aerodynamic optimization codes.

Jan.- Oct. 2008 **TECNAM Costruzioni Aeronautiche, Capua (CE) (Italy)**  
*Stage in Flight Test Team*

- Flight tests: planning, analysis and certification of the aircraft P2006(FAR 23, CS 23)
- Integration of specialized instrumentation for flight data acquisition, calibration and software development.
- Contacts with many hardworking people in the aviation industry including engineers, pilots, technicians, skilled workers.
- Writing the Flight Test Report and Flight Test Manual for the airplane TECNAM P2006T.

Sep.-Nov. 2006 **ALENIA AERONAUTICA Torino (Italy)**  
*Stage in Flight control System*

- Architecture Defining of primary and secondary flight control system
- Studies of the aviation regulations: JAR, MIL.
- Statistical analysis for the proposed flight systems (ETS, MTBF)
- Design of the aircraft spoiler system Alenia C27J

**COMPETENCES**

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**Technical and Computer Skills**

- Advanced Windows, Microsoft Office, Linux
- Programming: Advanced user Matlab, Simulink, Starccm+, ANSYS ICEMCFD, FLUENT, SU2, VSAERO 6.2-7, CMARC, Autocad, XFOIL, JavaFOIL.
- Good level FTA-MTBF (statistical analysis).
- SOLIDWorks: advanced.
- Nastran, Femap: concepts.
- Excellent knowledge in the project, installation, calibration, development of systems for data acquisition in real time transducers, inertial platform, accelerometers, strain gauges, potentiometers, sensors pitot probes and temperature, torque, Differential GPS and so on.

**LANGUAGES**

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- **English** Good level
- **Italian** Mother tongue

**OTHERS**

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**Several stays abroad**

- USA, Australia, Canada, Sweden, France, United Kingdom, Spain, Greece, Holland, Belgium, Luxemburg, Germany, Russia, Brazil.

**Sports**

- Football, Basket, Jogging, Tennis
- Referee and Assistant Referees of Football from 1999 militant in the category Lega PRO (Italian third division) until 2018.

**Organization**

- Member of AIAA (The American Institute of Aeronautics and Astronautics) from 2009.
- Member of AIDAA (Associazioni italiana di Aeronautica e Astronautica) from 2009.
- Tour Guide and Tour Director of Alpine Italian Club (CAI)

**Driving license**

- B

**LECTURES**

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- Responsible of Flight Test course, Master degree, at University of Naples Federico II since 2018.
- Co-responsible of Aircraft Design course, Master degree, at University of Naples Federico II since 2016.
- Lectures at University of Naples in Aircraft Design from 2010 to 2016.
- Lectures at University of Naples in Dynamic and Flight Simulation since 2010.
- Lectures at University of Naples in Flight Mechanics: aircraft performance and flight mechanics since 2010.
- Lectures at University of Naples in Flight tests and parameter estimation since 2010.

## RESEARCH ACTIVITIES, PROJECTS, PUBLICATIONS

### FINANCED PROJECTS

Research participation to the following financed projects:

- CERVIA (financed by Italian Research Ministry - 2014-2017)
- RIBES (financed by CS2 CfP - 2016)
- AGILE (financed by H2020 - 2015-2018)
- IRON (financed by CS2 - 2016 -2022)
- PROSIB (financed by Italian Research Ministry - 2018 - 2021)
- ADORNO (financed by CS2 CfP 2018 -2022)
- AGILE 4.0 financed by H2020 - 2019-2022)
- ELICA (financed by CS2 CfP 2018 - 2022)

### AWARDS

- ICAS AWARD FOR INNOVATION IN AERONAUTICS 2018.

Within AGILE project, Consortium receives the ICAS Award for Innovation in Aeronautics! The "ICAS Award for Innovation in Aeronautics" is handed out "for outstanding and innovative contributions to the development of advanced aeronautical systems".

### INTERNATIONAL CONFERENCES

- PEGASUS 2010 AIAA Student conference SEVILLE 29-30 April (Spain)
- AIAA 2010 TORONTO Guidance Navigation and control 2-5 August (Canada)
- CEAS 2011 VENICE 24-28 October (Italy)
- ICAS 2012 BRISBANE 23-28 September (Australia)
- CEAS 2013 LINKOPING 16-19 September (Sweden)
- ICAS 2014 ST. PETERBURG 7-12 September (Russia)
- AIAA 2017 DENVER MDO Conference 5-9 June (USA)
- ICAS 2018 BELO HORIZONTE 9-14 September (Brazil)

### BOOKS

1. **Della Vecchia P.**, "*Development of Methodologies for the Aerodynamic Design and Optimization of New Regional Turboprop Aircraft*", PhD, Doctoral Thesis in Aerospace, Naval and Quality Engineering, University of Naples, ISBN 978-88-98382-02-6.

### BOOKS CHAPTERS

1. Nicolosi F., Cusati V., Ciliberti D., **Della Vecchia P.**, Corcione S. (2020) Aeroelastic Wind Tunnel Tests of the RIBES Wing Model. In: Biancolini M., Cella U. (eds) Flexible Engineering Toward Green Aircraft. Lecture Notes in Applied and Computational Mechanics, vol 92. Springer, Cham.
2. **Della Vecchia P.**, Stingo, L., Nicolosi, F., De Marco, A., Daniele, E., D'Amato, E. "*Application of game theory and evolutionary algorithm to the regional turboprop aircraft wing optimization*", Computational Methods in Applied Sciences (2019), 49, pp. 403-418. Published in: Evolutionary and Deterministic Methods for Design Optimization and Control With Applications to Industrial and Societal Problems.

3. A. De Marco, F. Nicolosi, D. P. Coiro, R. Tognaccini, G. Calise, **P. Della Vecchia**, S. Corcione, D. Ciliberti and B. Mele, "*High Performance Computing (HPC) and Aerospace Research Activities at the University of Naples Federico II: Results and Scientific Applications Derived from the Italian PON ReCaS Project*", January 2017. In book: High Performance Scientific Computing Using Distributed Infrastructures. <https://doi.org/10.1142/>, Pages: 528

## JOURNAL PUBLICATIONS

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1. Nicolosi, F., De Marco, A., and **Della Vecchia, P.**, "*Flight Tests, Performances and Flight Certification of a Twin-Engine Light Aircraft*", Journal of Aircraft, Vol. 48, No 1, January-February 2011, DOI: 10.2514/1.C031056.
2. Nicolosi, F., De Marco, A. and **Della Vecchia, P.**, "*Stability, flying qualities and longitudinal parameter estimation of a twin-engine CS-23 certified light aircraft*", Aerospace Science and Technology, Vol. 24, No 1, pp. 226-240 DOI:10.1016/j.ast.2011.11.011.
3. Daniele, E., De Fenza, A. and **Della Vecchia, P.**, "*Conceptual adaptive wing-tip design for pollution reductions*", Journal of Intelligent Material Systems and Structures, Vol. 23, No 11, August 2012, DOI: 10.1177/1045389X12445030, ISSN: 1045-389X.
4. Nicolosi, F., **Della Vecchia, P.** and Ciliberti, D., "*An investigation on vertical tailplane contribution to aircraft sideforce*", Aerospace Science and Technology Vol. 28, No 1, 401-416, DOI: 10.1016/j.ast.2012.12.006.
5. Nicolosi F., **Della Vecchia P.**, Ciliberti D., "*Aerodynamic interference issues in aircraft directional control*", Journal of Aerospace Engineering, Vol. 28 (1), January (2015), ISSN 08931321.
6. **Della Vecchia P.**, Daniele E., D'Amato E., "*An airfoil shape optimization technique coupling parsec parameterization and evolutionary algorithm*", Aerospace Science and Technology, Vol. 32, No 1, pp 103-110, January (2014), DOI: 10.1016/j.ast.2013.11.006.
7. **Della Vecchia P.**, Nicolosi, F. "*Aerodynamic guidelines in the design and optimization of new regional turboprop aircraft*", Aerospace Science and Technology, Vol. 38, pp 88-104, 2014, DOI: 10.1016/j.ast.2014.07.018.
8. Nicolosi, F., **Della Vecchia, P.** and Corcione, S., "*Design and Aerodynamic Analysis of a Twin-engine Commuter Aircraft*", Aerospace Science and Technology, Volume 40, January 2015, Pages 1-16, DOI: 10.1016/j.ast.2014.10.008.
9. Nicolosi, F., Corcione, S. and **Della Vecchia, P.**, "*Commuter Aircraft Aerodynamic Characteristics through Wind Tunnel Tests*", Aircraft Engineering and Aerospace Technology, Vol 88 (4), 2016, pp 523-534.
10. Coiro, D. P. Daniele, E. and **Della Vecchia P.**, "*Diffuser shape optimization for GEM, a tethered system based on two horizontal axis hydro turbines*", International Journal of Marine Energy. <http://dx.doi.org/10.1016/j.ijome.2015.08.002>, 2015 Elsevier.
11. Nicolosi, F., **Della Vecchia, P.**, Ciliberti, D., Cusati, V., "*Fuselage aerodynamic prediction methods*", Aerospace Science and Technology, Volume 55, June 2016, Pages 332-343, DOI: 10.1016/j.ast.2016.06.012.
12. Nicolosi, F., De Marco, A., and **Della Vecchia, P.**, "*Development of a Java-Based Framework for Aircraft Preliminary Design and Optimization*", Journal of Intelligent Systems and Structures, Vol. 13, No. 6, pp. 234-242, June 2016.
13. **Della Vecchia, P.**, Corcione, S., Pecora, R., Nicolosi, F., Concilio, A., Dimino, I.. "*Design and integration sensitivity of a morphing trailing edge on a reference airfoil: The effect on high-altitude long-endurance aircraft performance*", Journal of Intelligent Material Systems and Structures, 2017, DOI: 10.1177/1045389X17704521.

14. Nicolosi, F., Ciliberti, D., **Della Vecchia, P.**, Corcione, S., Cusati, V., “*A comprehensive review of vertical tail design*”, Aircraft Engineering and Aerospace Technology, 2017, Vol. 89 Issue: 4, pp.547-557, DOI 10.1108/AEAT-11-2016-0213.
15. Ciliberti, D., **Della Vecchia, P.**, Nicolosi, F., De Marco, A., “*Aircraft directional stability and vertical tail design: A review of semi-empirical methods*”, Progress in Aerospace Sciences, Volume 95, 2017, Pages 140-172, DOI: 10.1016/j.paerosci.2017.11.001.
16. **Della Vecchia, P.**, Malgieri, D., Nicolosi, F., De Marco, A., “*Numerical analysis of propeller effects on wing aerodynamic: tip mounted and distributed propulsion*”, Transportation Research Procedia, Volume 29, 2018, Pages 106-115, DOI: 10.1016/j.trpro.2018.02.010.
17. Nicolosi, F., De Marco, A., Sabetta, V., **Della Vecchia, P.**, “*Roll performance assessment of a light aircraft: flight simulations and flight tests*”, Aerospace Science and Technology, Volume 76, May 2018, Pages 471-483, DOI:10.1016/j.ast.2018.01.041.
18. **Della Vecchia, P.**, Nicolosi, F., Ruocco, M, Stingo, L., De Marco, A., “*An improved high-lift aerodynamic prediction method for transport aircraft*”, CEAS Aeronaut J (2018). <https://doi.org/10.1007/s13272-018-0349-5>.
19. Growth, C., Porziani, S., Chiappa, A., Giorgetti, F., Cella, U., Nicolosi, F., **Della Vecchia, P.**, Mastroddi, F., Coppotelli, G., Biancolini, M.E., “Structural validation of a realistic wing structure: the RIBES test article”, Procedia Structural Integrity, Volume 12, 2018, Pages 448-456, <https://doi.org/10.1016/j.prostr.2018.11.073>.
20. De Marco, A., Di Stasio, M., **Della Vecchia, P.**, Trifari, V., Nicolosi, F., “Automatic modeling of aircraft external geometries for preliminary design workflows”, Aerospace Science and Technology, Volume 98, March 2020, DOI:10.1016/j.ast.2019.105667.
21. Nicolosi, F., Ciliberti, D., **Della Vecchia, P.**, Corcione, S., “Experimental analysis of aircraft directional control effectiveness”, Aerospace Science and Technology, Volume 106, 2020, DOI: 10.1016/j.ast.2020.106099.

## CONFERENCE PUBLICATIONS

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1. Nicolosi, F., De Marco, A., and **Della Vecchia, P.**, “*Flight Tests of a Twin-Engine Aircraft: Performances, Stability and Parameter Estimation*”, Proceedings of the XX AIDAA Italian National Congress [CD-ROM], Milan (Italy), June 2009, Politecnico di Milano, ISBN 978-88-904668-0-9.
2. **Della Vecchia, P.**, Serino, G., “*Aerodynamic Analysis and optimization of regional transport aircraft*”, PEGASUS AIAA Conference, Seville 2010.
3. Nicolosi, F., De Marco, A., and **Della Vecchia, P.**, “*Flight Tests, Performances and Flight Certification of a Twin-Engine Light Aircraft*”, AIAA Guidance, Navigation, and Control Conference 2 - 5 August 2010, Toronto, Ontario Canada, AIAA paper 2010-7513.
4. Nicolosi, F., De Marco, A., and **Della Vecchia, P.**, “*Stability, Flying Qualities and Parameter Estimation of a Twin-Engine CS-23/FAR 23 Certified Light Aircraft*”, AIAA Guidance, Navigation, and Control Conference 2 - 5 August 2010, Toronto, Ontario Canada, AIAA paper 2010-7947.
5. Tancredi, S., D’Amato, E., Daniele, E., **Della Vecchia, P.**, Petrone, G., “*A Nash Equilibrium-Genetic Algorithm optimization code for structural problems. Test case: an aluminum plate subjected to low velocity impact events*”, Proceedings of the CAE Conference, Brescia 2010.
6. Nicolosi, F., De Marco, A., and **Della Vecchia, P.**, “*The role of flight tests and flight simulation in aircraft design*”, 10<sup>th</sup> EWAAE Conference, 24-27 May 2011, Naples, ISBN: 978-88-906484-1-0.
7. Nicolosi, F. and **Della Vecchia, P.**, “*Aerodynamic guidelines in the design and optimization of new regional turboprop aircraft*”, 3<sup>rd</sup> CEAS Air and 21<sup>st</sup> AIDAA Congress, Venice (Italia) 24-28 October 2011, pp. 577-587, ISBN:

- 9788896427187.
8. Nicolosi, F., **Della Vecchia, P.** and Corcione, S., "*Aerodynamic analysis and Design of a twin-engine commuter aircraft*", 28<sup>th</sup> ICAS (International Council of Aeronautics and Astronautics) Conference, 23-28 September 2012, ISBN: 9780956533319.
  9. **Della Vecchia P.**, Ciliberti D., "*Numerical aerodynamic analysis on a trapezoidal wing with high lift devices: a comparison with experimental data*", XXII AIDAA Conference, ISBN: 978-88-9064842-7, 9-12 September 2013, Naples (Italy).
  10. Ciliberti D., Nicolosi F., **Della Vecchia P.**, "*A new approach in the aircraft vertical tailplane design*", XXII AIDAA Conference, ISBN: 978-88-9064842-7, 9-12 September 2013, Naples (Italy).
  11. Caso P., Daniele E., **Della Vecchia P.**, De Fenza A., "*CFD sensitivity analysis on bumped airfoil characteristics for inflatable winglet*", 4<sup>th</sup> CEAS Conference, ISBN: 978-91-7519-519-3, 16-19 September 2013, Linkoping (Sweden), pp 936-945.
  12. Corcione S., Nicolosi F., **Della Vecchia P.**, "*Wind Tunnel Tests of a New Commuter Aircraft*", 4<sup>th</sup> CEAS Conference, ISBN: 978-91-7519-519-3, 16-19 September 2013, Linkoping (Sweden), pp. 138-149.
  13. Coiro, D., P., Daniele, E., **Della Vecchia, P.**, "*Diffuser shape optimization for GEM, a tethered system based on two horizontal axis hydro turbines*", 2<sup>nd</sup> Asian Wave and Tidal Energy Conference AWTEC, Tokyo, Japan, 28-30 July 2014, DOI: 10.13140/2.1.4194.1125.
  14. Nicolosi, F., Corcione, S., **Della Vecchia, P.**, "*Commuter aircraft aerodynamic design: wind-tunnel tests and CFD analysis*", 29<sup>th</sup> ICAS Conference, 7-12 September 2014, St. Peterburg (Russia), ISBN: 3-932182-80-4.
  15. Nicolosi, F., **Della Vecchia, P.**, Ciliberti, D., Cusati, V., "*Development of new preliminary design methodologies for regional turboprop aircraft by CFD analyses*", 29<sup>th</sup> ICAS Conference, 7-12 September 2014, St. Peterburg (Russia), ISBN: 3-932182-80-4.
  16. Nicolosi, F., Corcione, S., **Della Vecchia, P.**, De Marco, A., "Numerical Aerodynamic Analysis of a New Twin Engine Commuter Aircraft. Longitudinal and Lateral-Directional Derivatives", MAE Conference, Rome, 18-19 April 2015, ISBN: 978-1-63248-045-3.
  17. De Marco, A., Nicolosi, F., Attanasio, L., **Della Vecchia, P.**, "A Java Desktop Application for Aircraft Preliminary Design", ICPT Conference 2015, Rome, 18-19 April 2015, ISBN: 978-1-63248-045-3.
  18. **Della Vecchia P.**, Nicolosi, F., Ciliberti, D., "Aircraft directional stability prediction method by CFD", 33rd AIAA Applied Aerodynamics Conference, Dallas, Texas, 22-26 June 2015, doi: 10.2514/6.2015-2255.
  19. Nicolosi, F., **Della Vecchia, P.**, Ciliberti, D., Cusati, V., "Fuselage aerodynamic prediction methods", 33rd AIAA Applied Aerodynamics Conference, Dallas, Texas, 22-26 June 2015, doi: 10.2514/6.2015-2257.
  20. Nicolosi, F., De Marco, A., Sabetta, V., **Della Vecchia, P.**, "Roll performances assessment of a light aircraft: flight tests and flight simulation", doi :10.2514/6.2015-2238.
  21. **Della Vecchia, P.**, Stingo, L., Corcione, S., Ciliberti, D., Nicolosi, F., De Marco, A., "Game theory and evolutionary algorithms applied to MDO in the AGILE European project", 18th AIAA/ISSMO Multidisciplinary Analysis and Optimization Conference, 2017, Denver, Co.
  22. Lefebvre, T., Bartoli, N., Dubreuil, S., Panzeri, Lombardi, **Della Vecchia, P.**, Nicolosi, Ciampa, P. D., Anisimov, K., Savelyev, "Methodological enhancements in MDO process investigated in the AGILE European project", 18th AIAA/ISSMO Multidisciplinary Analysis and Optimization Conference, 2017, Denver, Co.
  23. **Della Vecchia, P.**, Stingo, L., Nicolosi, F., De Marco, A., Daniele, E., D'Amato, "Application of game theory and evolutionary algorithm to the regional turboprop aircraft wing optimization", EUROGEN Conference, Madrid, 13-15 2017.
  24. **Della Vecchia, P.**, Nicolosi, F., Ruocco, M., Stingo, L., De Marco, A., "An improved method for transport aircraft for high lift aerodynamic prediction", 6TH CEAS AIR & SPACE CONFERENCE, 16-20 October 2017, Budapest, Ro.
  25. Nicolosi, F., Corcione, S., **Della Vecchia, P.**, Trifari, V., Ruocco, M., De Marco, A., "Design and aerodynamic analysis of a regional turboprop innovative configuration", 6TH CEAS AIR & SPACE CONFERENCE, 16-20 October 2017,

- Budapest, Ro.
26. **Della Vecchia, P.**, Malgieri, D., Nicolosi, F., De Marco, A., "Numerical analysis of propeller effects on wing aerodynamic: tip mounted and distributed propulsion", 6TH CEAS AIR & SPACE CONFERENCE, 16-20 October 2017, Budapest, Ro.
  27. De Marco, A., Cusati, V., Trifari, V., Ruocco, M., Nicolosi, F., **Della Vecchia, P.**, "A Java Toolchain of Programs for Aircraft Design", 6TH CEAS AIR & SPACE CONFERENCE, 16-20 October 2017, Budapest, Ro.
  28. Charbonnier, Vos, Prakasha, Mirzoyan, Savelyev, **Della Vecchia, P.**, "Low Speed Take-Off Aerodynamic Analysis", 6TH CEAS AIR & SPACE CONFERENCE, 16-20 October 2017, Budapest, Ro.
  29. **Della Vecchia, P.**, Stingo, L., Nicolosi, F., De Marco, A., Cerino, G., Ciampa, P.D., Prakasha, P.S., Fioriti, M., Zhang, M., Mirzoyan, A., Aigner, B., Charbonnier, D., "Advanced turboprop multidisciplinary design and optimization within AGILE project", 25-29 June 2018, Atlanta, Georgia, USA.
  30. Prajwal Shiva Prakasha, Pier Davide Ciampa, **Pierluigi Della Vecchia**, Mark Voskuij, Marco Fioriti, Benedikt Aigner, Kirill Anisimov, Artur Mirzoyan, "Collaborative Design & Optimization of Blended Wing Body Aircraft Configuration: AGILE EU Project", 25-29 June 2018, Atlanta, Georgia, USA.
  31. **Pierluigi Della Vecchia**, Pier Davide Ciampa, Prajwal Shiva Prakasha, Benedikt Aigner, Imco van Gent, "MDO Framework for university research collaboration: AGILE Academy Initiatives & Outcomes", 25-29 June 2018, Atlanta, Georgia, USA.
  32. Fabrizio Nicolosi, Danilo Ciliberti, **Pierluigi Della Vecchia**, Salvatore Corcione, "Wind tunnel testing of a generic regional turboprop aircraft modular model and development of improved design Guidelines", 25-29 June 2018, Atlanta, Georgia, USA.
  33. Fabrizio Nicolosi, Salvatore Corcione, Vittorio Trifari, Vincenzo Cusati, Manuela Ruocco, and **Pierluigi Della Vecchia**. "*Performance evaluation and DOC Estimation of an Innovative Turboprop Configuration*", 2018 Aviation Technology, Integration, and Operations Conference, AIAA AVIATION Forum, (AIAA 2018-3662) <https://doi.org/10.2514/6.2018-3662>. 25-29 June 2018, Atlanta, Georgia, USA.
  34. Mirzoyan, A, Isianov, A.; Cerino, G.; **Della Vecchia, P.**, Stingo, L.; Fioriti, M.; Boggero, L.; Tomasella, F.; Prakasha, Prajwal S., "Comparative Study of Advanced Turboprop Aircraft with Wing and Rear Mounted Propulsion System in the Agile EU project", 2018 Joint Propulsion Conference, AIAA Propulsion and Energy Forum, (AIAA 2018-4849), <https://doi.org/10.2514/6.2018-4849>
  35. Luca Stingo, **Pierluigi Della Vecchia**, Giovanni Cerino, Fabrizio Nicolosi, Agostino De Marco, "MDO applications to conventional and novel turboprop aircraft within AGILE european project", 31st Congress of the International Council of the Aeronautical Sciences, ICAS 2018.
  36. **Pierluigi Della Vecchia**, Benedikt Aigner, Imco van Gent, Pier Davide Ciampa, Prajwal Shiva Prakasha, "Collaborative open source aircraft design framework for education - AGILE academy", 31st Congress of the International Council of the Aeronautical Sciences, ICAS 2018.
  37. Vincenzo Cusati, **Pierluigi Della Vecchia**, Danilo Ciliberti, Salvatore Corcione, Fabrizio Nicolosi, "Numerical high lift prediction on the Jaxa standard model", 31st Congress of the International Council of the Aeronautical Sciences, ICAS 2018.
  38. Fabrizio Nicolosi, Salvatore Corcione, **Pierluigi Della Vecchia**, Vittorio Trifari, Manuela Ruocco, "Aerodynamic design and analysis of an innovative regional turboprop configuration", 31st Congress of the International Council of the Aeronautical Sciences, ICAS 2018.
  39. Fabrizio Nicolosi, Salvatore Corcione, Vittorio Trifari, **Pierluigi Della Vecchia**, and Agostino De Marco. "Design Guidelines for High Capacity Innovative Regional Turboprop Aircraft", AIAA Scitech 2019 Forum, AIAA SciTech Forum, (AIAA 2019-0256), <https://doi.org/10.2514/6.2019-0256>.
  40. Orefice, F., **Della Vecchia, P.**, Ciliberti, D., Nicolosi, F., Aircraft Conceptual Design and Optimization Including Powertrain Architecture and Distributed Propulsion, AIAA Propulsion and Energy 2019 Forum, AIAA 2019-4465, 19-22 August 2019, Indianapolis, DOI: 10.2514/6.2019-4465.
  41. Ciampa, P.,D., Prakasha,P., S., Torrigiani, F., Walther, J., Lefebvre, T., Bartoli, N.,

- Timmermans, H., **Della Vecchia, P.**, Stingo, L., Rajpal, D., van Gent, I, La Rocca, G., Fioriti, M., Cerino, G., Maierl, R., Charbonnier, D., Jungo, A., Aigner, B., Anisimov, K., Mirzoyan, A., Voskuil, M., "Streamlining Cross-Organizational Aircraft Development: Results from the AGILE Project", AIAA Aviation Forum 2019, Dallas, DOI: 10.2514/6.2019-3454.
42. Corcione, S., Nicolosi, F., **Della Vecchia, P.**, Ciliberti, D., Cusati, V., "High Lift Aerodynamic characteristics of a Three Lifting Surfaces Turboprop Aircraft", (2019) AIAA Aviation Forum 2019, Dallas, DOI: 10.2514/6.2019-2884.
  43. Cusati, V., Nicolosi, F., Corcione, S., Ciliberti, D., **Della Vecchia, P.**, "Longitudinal stability issues including propulsive effects on an innovative commercial propeller-driven aircraft", (2019) AIAA Aviation Forum 2019, Dallas, DOI: 10.2514/6.2019-2882.
  44. Nicolosi, F., Corcione, S., Trifari, V., **Della Vecchia, P.**, De Marco, A., "Design guidelines for high capacity innovative regional turboprop aircraft", (2019), AIAA Aviation Forum 2019, Dallas, AIAA Scitech 2019 Forum. DOI: 10.2514/6.2019-0256.
  45. Casale, C., Polito, T., Trifari, V., Di Stasio, M., **Della Vecchia, P.**, Nicolosi, F., Marulo, F., "Implementation of a noise prediction software for civil aircraft applications", XXV AIDAA Conference, Rome, 9-12 September 2019, ISBN 978-88-943960-1-0.
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