

PERSONAL INFORMATION

Franco Rispoli



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Sex M | Date of birth 01/12/1955 | Nationality Italy

Enterprise	University	EPR
<input type="checkbox"/> Management Level	<input checked="" type="checkbox"/> Full professor	<input type="checkbox"/> Research Director and 1st level Technologist / First Researcher and 2nd level Technologist
<input type="checkbox"/> Mid-Management Level	<input type="checkbox"/> Associate Professor	<input type="checkbox"/> Level III Researcher and Technologist
<input type="checkbox"/> Employee / worker level	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator	<input type="checkbox"/> Researcher and Technologist of IV, V, VI and VII level / Technical collaborator

WORK EXPERIENCE

From 01/11/2006 **Full professor of energy and environmental systems**
 Dept. of Mech and Aerospace Engrg, Sapienza University of Rome
 Leading the research team on science modelling of Fluid Machinery and Energy Systems

From 01/01/2014 **Director of Master EFER: Efficienza Energetica e Fonti Rinnovabili (Energy Efficiency and Renewable Energies).** Dept. of Mech and Aerospace Engrg, Sapienza University of Rome
 From 2020 **President of OWEMES: Offshore Wind and Other Marine Renewable Energies in Mediterranean and European Seas**

From 2017 to 2022 **Panellist consolidator grants and review of starting and advanced grants**
 European Research Council (ERC)
 Government Agency

From 01/01/2012 **National Coordinator (Italy)**
 European Research Community on: "Flow, Turbulence and Combustion" ERCOFTAC.

From 2004 **Visiting Research**
 Team for Advanced Flow Simulation and Modeling, Rice University, TX (USA)
 Academia

From 01/01/1988 to 31/07/1988 **Research Contract**
 European Center for Scientific and Engineering Computing IBM (Italy).

EDUCATION AND TRAINING

From 1984 to 1987 **PhD in Energy**
 Sapienza University of Rome, Italy

PERSONAL SKILLS

Mother tongue(s) **Italian**

Other language(s)	English, Serbian
Job-related skills	Numerous grants during 40 year of research activities for several millions of euros.
Digital skills	Creator the code named Xenios and Xenios++, and FEMPar parallel finite element code.
Other skills	<p>Specific research expertise:</p> <ul style="list-style-type: none"> - Development of numerous energy system codes - Development of parallel codes - Numerical methods for turbomachinery flow simulation - Numerical methods for particle laden flows and erosion in turbomachinery - Numerical methods for Fluid-Structure-Interaction in turbomachinery - RES: Ocean Energy and innovative design of air turbines for OWC system - RES: Development of large-scale Wind Turbine - Turbomachinery: Advanced design concepts in industrial fans & blowers - Turbomachinery: Axial and radial turbines - Rotating machinery: Diagnosis and control of stall and separation.

Bibliometrics: documents (Scopus): 165, H-index: 31, Citations: 2507, 168 documents.

ADDITIONAL INFORMATION

Publications

Journals

1. Agati G., Borello D.; Di Gruttola F.; Rispoli F.; Castorri A.; Gabriele S.; Venturini P., Numerical Prediction of Long Term Droplet Erosion and washing Efficiency of an Axial Compressor through the Use of a Discrete Mesh Morphing Approach. (2023), Journal of Turbomachinery, Vol. 145(3): 031009.
2. Barnabei, V. F.; Castorri Alessio; Corsini, A.; Rispoli, F., Morphing of reversible axial fan blade: A FSI-FEM study, 2022.
3. Castorri A., P. Venturini, A. Corsini, F. Rispoli, Machine learnt prediction method of droplet erosion damage on wind turbine blades, Wind Energy, 2021.
4. Agati, G.; Borello, D.; Camerlengo, G.; Rispoli, F.; Sesterhenn, J. Direct Numerical Simulation of an Oblique Jet in a Particle-Laden Crossflow, pp. 61-68. - ERCOFTAC SERIES, 2020.
5. Castorri A., Venturini, P., Corsini, A., Rispoli, F., Takizawa, K., Tezduar, T.E., Computational analysis of particle-laden-airflow erosion and experimental verification, Computational Mechanics, <https://doi.org/10.1007/s00466-020-01834-0>, 2020.
6. Agati, G.; Borello, D.; Camerlengo, G.; Rispoli, F.; Sesterhenn, J. Direct Numerical Simulation of an Oblique Jet in a Particle-Laden Crossflow, pp. 61-68. - ERCOFTAC SERIES, 2020.
7. Castorri A., Venturini, P., Corsini, A., Rispoli, F., Takizawa, K., Tezduar, T.E., Computational analysis of particle-laden-airflow erosion and experimental verification, Computational Mechanics, <https://doi.org/10.1007/s00466-020-01834-0>, 2020.
8. Venturini, P.; Andreoli, M.; Borello, D.; Rispoli, F.; Gabriele, S. Modeling of water droplets erosion on a subsonic compressor cascade - FLOWTURBULENCE AND COMBUSTION. - ISSN 1386-6184. - 103:4, pp. 1109-1125, 2019.
9. Castorri A., Venturini P., Corsini A., Rispoli F., Numerical Simulation of the Blade Aging Process in an Induced Draft Fan Due to Long Time Exposition to Fly Ash Particles, Journal of Engineering for Gas Turbines and Power, 2019.
10. Castorri A., Corsini A., Rispoli F., Takizawa K., Tezduar T.E., A stabilized ALE method for computational fluid-structure interaction analysis of passive morphing in turbomachinery, Mathematical Models and Methods in Applied Sciences 2019.
11. Castorri A., Corsini A., Rispoli F., Venturini P., Takizawa K., Tezduar T.E., Computational analysis of performance deterioration of a wind turbine blade strip subjected to environmental erosion, Computational Mechanics, 2019.
12. Castorri A., Corsini A., Sheard A.G., Rispoli F., Numerical testing of a trailing edge passive morphing control for large axial fan blades, Journal of Engineering for Gas Turbines and Power, 2018.

13. Salvagni A., Borello D., Rispoli F., Hanjalić K., Large-eddy simulations of heat transfer in asymmetric rib-roughened ducts: Effects of rotation, *International Journal of Heat and Fluid Flow*, 2017.
14. Cardillo, Lucio; Corsini, Alessandro; Delibra, Giovanni; Rispoli, Franco; Tezduyar, Tayfun E., Flow analysis of a wave-energy air turbine with the SUPG/PSPG stabilization and Discontinuity-Capturing Directional Dissipation, *COMPUTERS & FLUIDS Elsevier Ltd* 141 184 190 2016.
15. Castorrini, Alessio; Corsini, Alessandro; Rispoli, Franco; Venturini, Paolo; Takizawa, Kenji; Tezduyar, Tayfun E., Computational analysis of wind-turbine blade rain erosion, *COMPUTERS & FLUIDS Elsevier Ltd* 141 175 183 2016.
16. Corsini, A.; Fanfarillo, G.; Rispoli, F.; Venturini, P., Pollutant emissions in common-rail diesel engines in extraurban cycle: rapeseed oils vs diesel fuel, *ENERGY PROCEDIA* 82 141 148 2015.
17. Andrea Calabriso; Luca Cedola; Luca Del Zotto; Simone Giovanni Santori; Franco Rispoli, Performance investigation of Passive Direct Methanol Fuel Cell in different structural configurations, *JOURNAL OF CLEANER PRODUCTION* 88 23 28 2015.
18. Hanjalić K., Borello D., Delibra G., Rispoli F., 2015, Hybrid LES/RANS of internal flows: A case for more advanced RANS, *Springer Notes on Numerical Fluid Mechanics and Multidisciplinary Design*, Volume 130, 2015, Pages 19-35.
19. Rispoli, F., Delibra, G., Venturini, P., Corsini, A., Saavedra, R., Tezduyar, T.E., 'Particle tracking and particle-shock interaction in compressible-flow computations with the V-SGS stabilization and YZ shock-capturing', *Computer Mechanics*, Volume 55 Issue 6, (2015) pp 1201-1209 (DOI 10.1007/s00466-015-1160-3).
20. Cardillo, L., Corsini, A., Delibra, G., Rispoli, F. & Sheard A.G., 'A Numerical Investigation into the Aerodynamic Effect of Pressure Pulses on a Tunnel Ventilation Fan'. *Proceedings of the Institution of Mechanical Engineers, Part A: Journal of Power and Energy* May 2014 228: 285-299.
21. Cardillo, L., Corsini, A., Delibra, G., Rispoli, F. & Sheard, A.G., 'Predicting the Performance of an Industrial Centrifugal Fan Incorporating Cambered Plate Impeller Blades'. *Periodica Polytechnica, Mechanical Engineering*, Vol 58, No 1 (2014), pp. 15-25.
22. Corsini, A., Rispoli, F., Sheard, A.G. Tezduyar T.E., Takizawa K. & Venturini P., 'A variational multiscale method for cloud particle-tracking in turbomachinery flows. *Computational Mechanics* (2014) Volume 54, Issue 5, pp 1191-1202.
- A. Corsini, F. Rispoli, P. Venturini, G. Sheard: Numerical simulation of coal-fly ash erosion in an induced draft fan. *ASME Journal of Fluids Engineering*, 2013:135, paper 081303, pp. 1-12 (DOI: 10.1115/1.4024127).
23. Borello, D., Corsini, A., Rispoli, F. and Tortora, E., 2013, 'A co-powered Concentrated Solar Power Rankine cycle concept for small size Combined Heat and Power', *Energies*, 6, 1478-1496; doi:10.3390/en6031478.
24. Bianchi, S., Borello, D., Corsini, A., Rispoli, F., and Sheard, A. G., 2013, 'Large-eddy simulation of the aerodynamic and aero-acoustic performance of a ventilation fan', *Advances in Acoustics and Vibration*, Article ID 876973, doi: 10.1155/2013/876973.
25. Borello, D., Rispoli, F., Venturini, P., and Saavedra G. Z., R., 2013, 'Prediction of multiphase combustion and ash deposition within a biomass furnace', *Applied Energy*, Elsevier, 101, pp. 413-422.
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27. Corsini A., Rispoli F., Tezduyar T.E. (2012). Computer modeling of wave-energy air turbines with the SUPG/PSPG formulation and discontinuity-capturing technique. *Journal of Applied Mechanics*, vol. 79-1, paper 010910 (8 pages).
28. Corsini, A., Rispoli, F., Sheard, A.G. & Tezduyar T.E. (2012), 'Computational Analysis of Noise Reduction Devices in Axial Fans with Stabilized Finite Element Formulations'. *Computational Mechanics*, vol. 50, pp. 695-705.
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- A. Corsini; Marchegiani A; Rispoli F; Venturini P; Sheard A.G (In Corso Di Stampa). Predicting Blade Leading Edge Erosion in an Axial Induced Draft Fan *JOURNAL OF ENGINEERING FOR GAS TURBINES AND POWER* (ISSN:0742-4795).
30. Corsini; Rispoli F; Tezduyar T.E (In Corso Di Stampa). Computer modeling of wave-energy air turbines with the SUPG/PSPG formulation and discontinuity-capturing technique *JOURNAL OF APPLIED MECHANICS* (ISSN:0021-8936), 79-1.
31. P. Venturini, D. Borello, K. Hanjalic, F. Rispoli (In Corso Di Stampa). Modelling of particles deposition in an environment relevant to biomass-fired boilers *APPLIED THERMAL ENGINEERING* (ISSN:1359-4311).
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- A. Corsini; Rispoli F; Sheard A.G (2010). Shaping of tip end-plate to control leakage vortex swirl in axial flow fans *JOURNAL OF TURBOMACHINERY* (ISSN:0889-504X), 031005-1- 031005-9, 132.
33. Venturini P; Borello D; Iossa C; Lentini D; F. Rispoli (2010). Modeling of multiphase combustion and deposit formation in a biomass-fed furnace *ENERGY* (ISSN:0360-5442), 3008- 3021, 35.
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35. G. Delibra; K. Hanjalic; D. Borello; F. Rispoli (2010). Vortex structures and heat transfer in a wall-bounded pin matrix: LES with a RANS wall-treatment *INTERNATIONAL JOURNAL OF HEAT AND FLUID FLOW* (ISSN:0142-727X), 740- 752, 31.

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37. Corsini A; Iossa C; F. Rispoli; Tezduyar T.E (2010). A DRD finite element formulation for computing turbulent reacting flows in gas turbine combustors COMPUTATIONAL MECHANICS (ISSN:0178-7675), 159- 167, 46.
38. Borello D; Delibra G; K. Hanjalic; F. Rispoli (2010). Scrutinizing a seamless hybrid LES/RANS approach for turbomachinery applications (short communication). In: S.H. Peng, P. Doerffer and W. Haase. Progress in hybrid RANS-LES modelling. Springer-Verlag, 111.
39. F. Rispoli; Saavedra R.Z; Menichini F; Tezduyar T. E (2009). Computation of Inviscid Supersonic Flows Around Cylinders and Spheres with the V-SGS Stabilization and YZ beta Shock-Capturing JOURNAL OF APPLIED MECHANICS (ISSN:0021-8936), 021209-1- 021209-6, 76.
40. Corsini A; F. Rispoli; Tortora E; Gamberale M (2009). Assessment of H₂ and H₂O-based renewable energy-buffering systems in minor islands RENEWABLE ENERGY (ISSN:0960-1481), 279- 288, 34-1.
41. Corsini A; F. Rispoli; Sheard A. G (2009). Aerodynamic performance of blade tip end-plates designed for low-noise operation in axial-flow fans. JOURNAL OF FLUIDS ENGINEERING (ISSN:0098-2202), 081101-1- 081101-13, 131-8.
42. G. Delibra; D. Borello; K. Hanjalic; F. Rispoli (2009). URANS of Flow and Endwall Heat Transfer in a Pinned Passage Relevant to Gas Turbine Blade Cooling INTERNATIONAL JOURNAL OF HEAT AND FLUID FLOW (ISSN:0142-727X), 549- 560, 30.
43. D. Borello; G. Delibra; K. Hanjalic; F. Rispoli (2009). Large-eddy simulations of tip leakage and secondary flows in an axial compressor cascade using a near-wall turbulence model PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS. PART A, JOURNAL OF POWER AND ENERGY (ISSN:0957-6509), 645- 655, 223.
44. Bianchi S; Sheard A. G; Kinghorn I. R; Corsini A; F. Rispoli (2009). Experimental development of a measurement technique to resolve the radial distribution of fan aero-acoustic emissions. NOISE CONTROL ENGINEERING JOURNAL (ISSN:0736-2501), 360- 369, 57-4.
45. A. Corsini; Menichini F; Rispoli F; Santoriello A; Tezduyar T.E (2009). A multiscale finite element formulation with discontinuity capturing for turbulence models with dominant reaction-like terms. JOURNAL OF APPLIED MECHANICS (ISSN:0021-8936), 021211-1- 021211-8, 76-2.
46. Bianchi S; Corsini A; F. Rispoli; Sheard A. G (2009). Experimental Aeroacoustics Studies on Improved Tip Geometries for Passive Noise Signature Control in Low-Speed Axial Fan JOURNAL OF VIBRATION AND ACOUSTICS (ISSN:1048-9002), 1- 10, 131.
47. Bianchi S; Corsini A; F. Rispoli; Sheard A. G (2009). Detection of Aerodynamic Noise Sources in Low-Speed Axial Fans with Tip End-Plates PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS. PART C, JOURNAL OF MECHANICAL ENGINEERING SCIENCE (ISSN:0954-4062), 1379- 1392, 223-6.
48. G. Delibra; D. Borello; K. Hanjalic; F. Rispoli (2008). LES of flow and heat transfer in a channel with a staggered cylindrical pin matrix. In: SPRINGER. Direct and Large Eddy Simulation VII. Springer Science and Media B.V, 311- 317.
49. A Corsini, Rispoli F., And A G Sheard (2007). Development of improved blade tip endplate concepts for low-noise operation in industrial fans. PROCEEDINGS OF THE INSTITUTION OF MECHANICAL ENGINEERS. PART A, JOURNAL OF POWER AND ENERGY, vol. 221; p. 669-681, ISSN: 0957-6509, doi: 10.1234/09576509JPE386.
50. Borello D, Hanjalic K, Rispoli F. (2007). Computational of tip leakage flows in a linear compressor cascade with Second Moment Closure. INTERNATIONAL JOURNAL OF HEAT AND FLUID FLOW, vol. 28; p. 587-601, ISSN: 0142-727X.
51. Rispoli F., Corsini A, Tezduyar T. E (2007). Finite element computation of turbulent flows with the Discontinuity-Capturing Directional Dissipation (DCDD). COMPUTERS & FLUIDS, vol. 36; p. 121-126, ISSN: 0045-7930.
52. Rispoli F., Saavedra R, Corsini A, Tezduyar T.E (2007). Computation of inviscid compressible flows with the V-SGS stabilization and Y Z beta shock-capturing. INTERNATIONAL JOURNAL FOR NUMERICAL METHODS IN FLUIDS, vol. 54/6-8; p. 695-706, ISSN: 0271-2091, doi: 10.1002/FLD.1447.
53. Corsini A, Gamberale M, Rispoli F. (2006). Assessment of renewable energy solutions in an Italian small island energy system using a transient simulation model. JOURNAL OF SOLAR ENERGY ENGINEERING, vol. 128; p. 237-244, ISSN: 0199-6231.
54. Corsini A, Rispoli F., Santoriello A, Tezduyar T (2006). Improved Discontinuity Capturing finite element techniques for reaction effects in turbulence computation. COMPUTATIONAL MECHANICS, vol. 38; p. 356-364, ISSN: 0178-7675.
55. Rispoli F., Saavedra R. G. Z (2006). A stabilized finite element method based on SGS models for compressible flows. COMPUTER METHODS IN APPLIED MECHANICS AND ENGINEERING, vol. 196; p. 652-664, ISSN: 0045-7825.
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59. Corsini A, Rispoli F. (2005). Flow analyses in a high-pressure axial ventilation fan with a non-linear eddy-viscosity closure. INTERNATIONAL JOURNAL OF HEAT AND FLUID FLOW, vol. 26; p. 349-361, ISSN: 0142-727X.

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61. Borello D; Corsini A; F. Rispoli (2003). A finite element overlapping scheme for turbomachinery flows on parallel platforms *COMPUTERS & FLUIDS* (ISSN:0045-7930), 1017- 1047, 32/7.

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63. Rispoli F., Borrelli P, Tezduyar T (2004). DCDD in Finite Element Computation of Turbulent Flows. In: *WCCM VI IN CONJUNCTION WITH APCOM'. Computational Mechanics. vol. 001*, p. 1-10, Tsinghua University Press & Springer-Verlag.
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65. Corsini A.; F. Rispoli (1999). Numerical simulation of three-dimensional viscous flow in an isolated axial rotor *ARCHIVUM BUDOWY MASZYN* (ISSN:0004-0738), 369- 392, XLVI-4.
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74. Agati G., Borello D., Rispoli F., Salvagni A., Venturini P., Numerical simulation of a particle-laden impinging jet: Effect of wall curvature on particle deposition, 2017, *Proceedings of the ASME Turbo Expo*.
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77. Castorrini, A.; Corsini, A.; Sheard, A. G.; Rispoli, F., Numerical study on the passive control of the aeroelastic response in large axial fans 2016 asme turbo expo 2016: turbine technical conference and exposition.
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