

PAOLO VENTURINI Curriculum Vitae

Roma
29/08/2018

Part I – General Information

Full Name	Paolo Venturini
Spoken Languages	Italian, English

Part II – Education

Type	Year	Institution	Notes (Degree, Experience,...)
University graduation	2004	Sapienza University of Rome	(5 years) Degree in Mechanical Engineering
Post-graduate studies	2005	ISES Italia, Roma	Certificate of Attendance in “Sistemi fotovoltaici: progettazione tecnico-architettonica” (Photovoltaic systems: technical-architectural design)
Post-graduate studies	2006	Sapienza University of Rome	II level Master in Energy Efficiency and Renewable Energy Sources
Post-graduate studies	2008	CIMNE- Universitat Politècnica de Catalunya, (ES)	Certificate of Attendance in “Short course in Particle-based methods”
Post-graduate studies	2006	Politecnico di Milano e ATI Lombardia, Piacenza	Certificate of Attendance in “Tecnologie e prospettive della produzione di energia da biomasse” (Technologies and perspectives of biomass energy production)
PhD	2010	Sapienza University of Rome	Ph.D. in Theoretical and Applied Mechanics. Title: Modelling of particle-wall deposition in two-phase flows. Supervisor: Prof. K. Hanjalic, Marie Curie Chair – COMSITA Excellence Grant.
Post-graduate studies	2018	AIFOS (Associazione Italiana Formatori ed Operatori della Sicurezza sul lavoro)	Certificate of Attendance in “Corso di formazione per RADRL”

Part III – Appointments

IIIA – Academic Appointments

Start	End	Institution	Position
01/08/2018	31/07/2021	Department of Mechanical and Aerospace Engineering, Sapienza University of Rome	Research Associate (Ricercatore a Tempo Determinato – A). SC: 09/C1. SSD: ING-IND/09. Title: “Studio computazionale di flussi multifase per la predizione dei fenomeni di erosione/sporcamento in applicazioni industriali di interesse energetico” (Computational analysis of multiphase flows for prediction of erosion/deposition phenomena in industrial applications of energy interest)
28/03/2017	28/03/2023	Italian ASN (National Academic Qualification)	Associate Professor
01/05/2014	30/04/2018	Department of Mechanical and Aerospace Engineering, Sapienza University of Rome	Research Associate (Assegnista di Ricerca). SSD: ING-IND/09. Title: “Modellazione e previsione dei fenomeni di erosione e formazione di deposito con approccio FEM in applicazioni turbomacchinistiche” (Modelling and prediction of erosion and fouling processes in turbomachinery applications, adopting a FEM approach)
01/07/2017	30/09/2017	Department of Mechanical and Aerospace Engineering, Sapienza University of Rome	Support to didactic and laboratory activities for the internships of students within the project JAMILA”, Tempus project - JAMILA (Joint Master of Mediterranean Initiatives on Renewable and Sustainable Energy)
2014	2015	Facoltà di Ingegneria Civile e Industriale, Sapienza University of Rome	Integrative teaching activities for the course "Interazione Macchine e Ambiente"
01/03/2010	28/02/2014	Department of Mechanical and Aerospace Engineering, Sapienza University of Rome	Research Associate (Assegnista di Ricerca). SSD: ING-IND/09. Title: “Sviluppo di modelli LES-Particle Tracking per codici agli elementi finiti per la previsione dello sporcamento in dispositivi alimentati a biomasse” (Development of LES-Particle Tracking based models for prediction of fouling in biomass fired devices)
2011	2012	TU Dresden, Germany	Visiting Researcher (3 months) in

			the research group lead by Prof. J. Froelich. Research Project: modeling of turbulent dispersion of non spherical particles using the Particle Cloud Tracking approach.
2009		Department of Mechanical and Aerospace Engineering, Sapienza University of Rome	Progetto PLANITEC - Studio preliminare sull'applicazione di microturbine eoliche in Italia (Preliminary study on the application of micro wind turbines in Italy)
2008	2009	Engineering Faculty, Sapienza University of Rome	Tutoring for the courses of Environment and Energy Systems

IIIB – Other Appointments

Start	End	Institution	Position
2015		Turbulence, Heat and Mass Transfer International Symposium	Editor of “Proceedings of the 8th International Symposium On Turbulence, Heat and Mass Transfer” (ISBN 978-1-56700-301-7), Sarajevo, Bosnia-Erzegovina, 15-18 September 2015
2015	-	Italian professional qualification	Engineer
2012		Turbulence, Heat and Mass Transfer International Symposium	Technical Editor of “Proceedings of the Seventh International Symposium on Turbulence, Heat and Mass Transfer (ISBN 978-1-56700-301-7), Italia, Palermo, 24-27 September 2012
2010		New Ener.co. s.r.l., Roma	Consultant Engineer for “Analisi tecnica di impianti di cogenerazione a biogas e olio vegetale puro” (Technical analysis of cogenerative plants feed with pure vegetable oil)
2009		Turbulence, Heat and Mass Transfer International Symposium	Consultant Engineer for organizing the “International Symposium on Turbulence, Heat and Mass Transfer”, Roma, 14-18 September 2009
2007		Agriconsulting s.p.a., Roma	Consultant Engineer within the ProBio Sicilia Project: biomass combustion for greenhouse heating
2006	2007	Aires Tech s.r.l., Roma	Consultant Engineer: CFD simulations, renewable plants design, teaching activities in training course for technicians in the field of renewable energy
2006		Agriconsulting s.p.a., Roma	Consultant Engineer within the ProBio Sicilia and ProBio Puglia Projects: biomass combustion for greenhouse heating

2004	2006	CIRPS (Centro Interuniversitario di Ricerca per lo Sviluppo Sostenibile), Sapienza University of Rome	(Several contracts) PIBE (Piattaforma Integrata Bioreflui e Energia) Project: - development and validation of a numerical tool to simulate biomass combustion. - Development of a numerical tool to predict fouling formation in biomass fired boilers.
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Part IV – Teaching experience

Year	Institution	Lecture/Course
2017/2018	Facoltà di Ingegneria Civile e Industriale, Sapienza University of Rome	Impianti combinati e cogenerativi (6 CFU)
2017/2018	Facoltà di Ingegneria Civile e Industriale, Sapienza University of Rome	Laboratorio di centrali termiche (3 CFU)
2017	Universidad Nacional del Sur, Bahia Blanca, Argentina	Co- and Tri-generation: basic concepts, technologies and applications (Lecture in English; in Erasmus+ project DIEGO – Development of quality system through Energy Efficiency cCourses)
2017	Universidad Nacional del Sur, Bahia Blanca, Argentina	Efficiency in buildings: geothermal heat pumps and radiant floor (Lecture in English; in Erasmus+ project DIEGO – Development of quality system through Energy Efficiency cCourses)
2017	Dipartimento di Ingegneria Meccanica e Aerospaziale, Sapienza Università di Roma	Alternative fuels and sustainable mobility (Lecture in English; in Erasmus+ project ECO-RED – European quality Course system for Renewable Energy Development)
2015/2018	Facoltà di Ingegneria Civile e Industriale, Sapienza Università di Roma	Interazione macchine e ambiente (3 CFU)
2016/2018	Dipartimento di Ingegneria Meccanica e Aerospaziale, Sapienza Università di Roma	Biomasse e biocombustibili (in Master di II livello in Efficienza Energetica e Fonti Energetiche Rinnovabili)
2015/2018	Facoltà di Ingegneria Industriale, Università Telematica eCampus	Gestione dei sistemi energetici (6 CFU)
2015/2018	Facoltà di Ingegneria Industriale, Università Telematica eCampus	Progettazione di macchine (9 CFU)
2015/2017	Facoltà di Ingegneria Industriale, Università Telematica eCampus	Turbomacchine (6 CFU)
2014/2017	Facoltà di Scienze Matematiche, Fisiche e Naturali, Sapienza Università di Roma	Energie rinnovabili da fonte geologica (3 CFU)
2016	LUISS Business School	Renewables and green energy (Lectures, in Specialised Master, in English)
2015	Princess Sumaya University of Tech-	Pollutant emissions in common-rail Diesel

	nology (Amman, Jordan)	engine in extra-urban cycle: rapeseed oil vs Diesel fuel (Lecture in English; in Tempus project MUREE – Modernising Undergraduate Renewable Energy Education)
2014	Osney Thermo-Fluids Laboratory, Oxford University, United Kingdom	Particle laden flows: fouling and erosion prediction (Lecture in English)
2011/2013	Facoltà di Ingegneria Civile e Industriale, Sapienza Università di Roma	Interazione macchine e ambiente (6 CFU)

Part V - Society memberships, Awards and Honors

Year	Title
2012	Member of “American Society of Mechanical Engineers”
2017	Member of “Associazione Italiana delle Macchine a fluido e dei Sistemi per l’Energia e l’Ambiente”

Part VI - Funding Information [grants as PI-principal investigator or I-investigator]

Year	Title	Program	Grant value

Part VII – Research Activities

Keywords	Brief Description
Particle/droplet tracking, deposition and erosion	Development and validation of a numerical tool for simulating particle/droplet laden flows. Modification of the Particle Cloud Tracking model for turbulent dispersion of particles; development of a comprehensive particle deposition model for hot and cold flows; Prediction of deposit formation and wear in turbomachinery and renewable energy devices; development of a numerical tool for predicting long term particle deposition/erosion considering target geometry modification.
Biofuels	Experimental study of performance and pollutant emission modifications in a Diesel engine fuelled with straight vegetable oil, waste cooking oil (WCO), biodiesel, and WCO-Diesel fuel blends.
Biomass	Experimental study on gasification of straight and contaminated biomass. Test of different catalysts for tar removal. Development of numerical model for biomass combustion in fixed and moving bed
Internal combustion engines	Collaboration with ENEA for simulating hybrid engines.

Part VIII – Summary of Scientific Achievements

Product type	Number	Data Base	Start	End
Papers [international]	37	Scopus		

Total Impact factor (Data Base: Web of Science)	31.42
Average Impact Factor (per publication having an Impact Factor on Web of Science)	2.86
Total Citations (Data Base: Scopus)	300
Average Citations per Product	8.12
Hirsch (H) index (Data Base: Scopus)	10
Normalized H index*	1.11

*H index divided by the academic seniority (year of first publication on Scopus: 2010)

Part IX– Complete list of Publications

International Journals

- 1) A. Castorrini, P. Venturini, A. Corsini, F. Rispoli, Numerical Simulation of the Blade Aging Process in an Induced Draft Fan Due to Long Time Exposition to Fly Ash Particles, ASME Journal of Engineering for Gas Turbines and Power, 2018 (Accepted).
- 2) A. Corsini, R. Di Antonio, G. Di Nucci, A. Marchegiani, F. Rispoli, P. Venturini, Performance analysis of a common-rail Diesel engine fuelled with different blends of waste cooking oil and gasoil, Energy Procedia, Proceedings of the 71st Conference of the Italian Thermal Machines Engineering Association, ATI2016, 14-16 September, 2016, Turin, Italy, 2016, Vol. 101., pp. 606 – 613.
- 3) A. Castorrini, A. Corsini, F. Rispoli, P. Venturini, K. Takizawa, T.E. Tezduyar, Computational analysis of wind-turbine blade rain erosion, Computers and Fluids 2016, 141, 175–183.
- 4) Corsini A., Marchegiani A., Rispoli F., Sciulli F., Venturini P., Vegetable oils as fuels in Diesel engine. Engine performance and emissions, Energy Procedia, Proceedings of the 69th Conference of the Italian Thermal Machines Engineering Association, 2015, Vol. 81, pp. 942-949.
- 5) 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, 2015, 8;141-148.
- 6) Rispoli F., Delibra G., Venturini P., Corsini A., Saavedra R., T.E. Tezduyar, Particle tracking and particle–shock interaction in compressible-flow computations with the V-SGS stabilization and Y Z β shock-capturing, Computational Mechanics (ISSN: 0178-7675 Print; 1432-0924 Online), 2015;55:1201–1209.
- 7) Borello D., De Caprariis B., De Filippis P., Di Carlo A., Marchegiani A., Pantaleo A.M., Shah N., Venturini P., Thermo-Economic Assessment of a Biomass Gasifier for Cogeneration Applications, Energy Procedia - Proceedings of the 7th International Conference on Applied Energy (ISSN 1876-6102), March 28-31, 2015, Abu Dhabi, United Arab Emirates.
- 8) A. Di Carlo, D. Borello, M. Sisinni, P. Venturini, E. Bocci, K. Kuramoto, Reforming of tar contained in a raw fuel gas from biomass gasification using nickel-mayenite catalyst, International Journal of Hydrogen Energy (ISSN:0360-3199), 2015, 40(30): pp 9088- 9095.
- 9) D. Borello, L. Cedola, G.V. Frangioni, R. Meloni, P. Venturini, P. De Flippis, B. de Caprariis, Development of a numerical model for biomass packed bed pyrolysis based on experimental

validation, *Applied Energy* (ISSN: 0306-2619), 2015, vol. 164;956-962. doi: 10.1016/j.apenergy.2015.08.007.

- 10) 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* (ISSN: 0178-7675 Print; 1432-0924 Online), 2014, 54;1191:1202; (DOI 10.1007/s00466-014-1050-0).
- 11) Cardillo L., Corsini A., Delibra G., Rispoli F., Sheard A.G., Venturini P., Predicting the performance of an industrial centrifugal fan incorporating cambered plate impeller blades, *Periodica Politecnica* (ISSN:1587-379X), 2014, Vol. 58, paper 7397, DOI:10.3311/PPme.7397<http://www.pp.bme.hu/me/article/view/7397>.
- 12) 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* (ISSN:0098-2202), 2013;135, paper 081303, pp. 1-12 (DOI: 10.1115/1.4024127).
- 13) D. Borello, P. Venturini, F. Rispoli, R. Saavedra G.Z., Prediction of multiphase combustion and ash deposition within a biomass furnace. *Applied Energy* (ISSN: 0306-2619), 2013; 101, 413-422.
- 14) D. Borello, F. Rispoli, P. Venturini: An integrated particle-tracking impact/adhesion model for the prediction of fouling in a subsonic compressor, *Journal of Engineering for Gas Turbine and Power* (ISSN:0742-4795), 2012;134(9) (doi: <http://dx.doi.org/10.1115/1.4006840>).
- 15) A. Corsini, A. Marchegiani, F. Rispoli, P. Venturini, A.G. Sheard, Predicting blade leading edge erosion in an axial induced draft fan, *ASME Transactions, Journal of Engineering for Gas Turbine and Power* (ISSN:0742-4795), 2012;134(4) (doi: 10.1115/1.4004724).
- 16) P. Venturini, D. Borello, K. Hanjalić, F. Rispoli: Modelling of particle deposition in an environment relevant to solid fuel boilers. *Applied Thermal Engineering*, 2012; vol. 49;131-138, (ISSN: 1359-4311), 2011, doi:10.1016/j.applthermaleng.2011.08.030.
- 17) P. Venturini, D. Borello, C.V. Iossa, D. Lentini, F. Rispoli: Modeling of multiphase combustion and deposit formation in a biomass-fed furnace. *Energy* (ISSN: 0360-5442), 2010, 35, 3008-3021.

Conferences

- 1) A. Castorrini, A. Corsini, F. Rispoli, P. Venturini, Numerical simulation of the blade aging process in an induced draft fan due to long time exposition to fly ash particles, *Turbo Expo 2018*, June 11-15, 2018, Oslo, Norway, paper no. GT2018-76740
- 2) M. Carrazza, F. Ortenzi, A. Genovese, F. Rispoli, P. Venturini, Exhaust Energy Recovery with Variable Geometry Turbine to Reduce Fuel Consumption for Microcars, *SAE International Powertrains, Fuels and Lubricants Meeting*, 17-19 September 2018, Heidelberg, Germany.
- 3) P. Venturini, D. Borello, F. Rispoli, S. Gabriele, Prediction of Water Droplets Erosion on a Subsonic Compressor Cascade, *THMT 2018*, 10-13 July 2018, Rio de Janeiro, Brazil.
- 4) F. Ortenzi, A. Genovese, P. Venturini, F. Rispoli, A. Martinelli, Hybrid turbocharging as a technology to reduce CO₂ from internal combustion engines investigated by 1D numerical model, *International Conference On Progresses In Automotive Technologies*, 10-12 May 2018, Elite World Prestige Hotel, Istanbul, Turkey
- 5) A. Chiariotti, D. Borello, P. Venturini, S. Costagliola, S. Gabriele, Erosion prediction of gas turbine compressor blades subjected to water washing process, *Asian Turbomachinery & Pump Symposium*, 12-15 March 2018, Singapore.

- 6) F. Bonacina, A. Corsini, S. Feudo, A. Marchegiani, P. Venturini, Internal Combustion Engine sensor network analysis using graph modeling, in 72nd Conference of the Italian Thermal Machines Engineering Association, ATI2017, 6-8 September 2017, Lecce, Italy.
- 7) G. Agati, D. Borello, F. Rispoli, A. Salvagni, P. Venturini, Numerical simulation of a particle-laden impinging jet: effect of wall curvature on particle deposition, Turbo Expo 2017, Charlotte, North Carolina, 26-30 June, 2017, paper no. GT2017-64629.
- 8) A. Castorrini, A. Corsini, F. Morabito, F. Rispoli, P. Venturini, Numerical simulation with adaptive boundary method for predicting time evolution of erosion processes, Turbo Expo 2017, Charlotte, North Carolina, 26-30 June, 2017, paper no. GT2017-64675.
- 9) G.M. Marmoni, A. Calabriso, S. Martino, D. Borello, M. Della Seta, C. Esposito, M. Fiorucci, P. Venturini, 2016, Hydrothermal system influencing slope-scale deformations at Mt. Nuovo (Ischia, Southern Italy): preliminary results from 2D-multiphysics numerical modelling, 35th GNGTS National Conference, 22-24 November, Lecce, Italy.
- 10) L. Cardillo, A. Corsini, D. Borello, G. Delibra, A. Salvagni, F. Rispoli, P. Venturini, Modelling of particle transport, erosion and deposition in power plant gas paths, Turbo Expo 2016, Seoul, South Korea, 13-17 June, 2016, paper no. GT2016-57984.
- 11) G. Agati, D. Borello, F. Rispoli, P. Venturini, An innovative approach to model temperature influence on particle deposition in gas turbines, Turbo Expo 2016, Seoul, South Korea, 13-17 June, 2016, paper no. GT2016-57997.
- 12) A. Corsini, A. Castorrini, P. Venturini, F. Rispoli, Numerical modelling of rain erosion affecting wind turbine blades, 8th European Seminar on Offshore Wind and other marine renewable Energies in Mediterranean and European Seas, 8-9 October 2015, Rome, Italy.
- 13) D. Borello, A. Salvagni, F. Rispoli, P. Venturini, Study of the deposit of solid particles on the walls of a ribbed duct under stationary and rotating condition, Proceedings of the 8th International Symposium On Turbulence, Heat and Mass Transfer, (ISBN 978-1-56700-301-7; ISSN 2377-2816), 2015, pp. 623-626.
- 14) A. Corsini, A. Castorrini, F. Rispoli, P. Venturini, Rain erosion numerical modeling applied to multi-mw off-shore wind turbine, VI International Conference on Computational Methods in Marine Engineering, 2015, Rome, Italy.
- 15) Salvagni A., Borello D., Properzi E., Venturini P., Rispoli F., URANS study of flow and heat transfer in a rotating rib-roughened internal cooling channel, in ASME-ATI-UIT 2015 Conference on Thermal Energy Systems: Production, Storage, Utilization and the Environment, 17 – 20 May, 2015, Napoli, Italy.
- 16) Corsini A., Castorrini A., Morei E., Rispoli F., Sciulli F., Venturini P., Modeling of rain drop erosion in a multi-MW wind turbine, ASME Turbo Expo, June 15-19, 2015, Montreal, Canada (paper GT2015-42174).
- 17) Borello D., Anielli D., Rispoli F., Salvagni A., Venturini P., Unsteady CFD analysis of erosion mechanism in the coolant channels of a rotating gas turbine blade, ASME Turbo Expo, June 15-19, 2015, Montreal, Canada.
- 18) Anielli D., Borello D., Rispoli F., Salvagni A., Venturini P., Prediction of particle erosion in the internal cooling channels of a turbine blade, 11th European Turbomachinery Conference, March 23-26, 2015, Madrid, Spain.
- 19) Bassetti M., Corsini A., Delibra G., Rispoli F., Ruggeri M., Venturini P., Design and verification of a micro wells, 11th European Turbomachinery Conference, March 23-26, 2015, Madrid, Spain.

- 20) Borello D., Cedola L., Meloni R., Venturini P., De Filippis P., de Caprariis B., Di Carlo A., Frangioni GV, A 3D packed bed model for biomass pyrolysis: mathematical formulation and experimental validation, ICAE Conference, May30-June 2, 2014, Taipei, Taiwan.
- 21) Borello D., Capobianchi P., De Petris M., Rispoli F., Venturini P., Unsteady RANS analysis of particles deposition in the coolant channel of a gas turbine blade using a non-linear model, ASME Turbo Expo 2014, Dusseldorf, Germany, paper no. GT2014-26252.
- 22) Borello D., D'Angeli L., Salvagni A., Venturini P., Rispoli F., Study of particle deposition in gas turbine blades in presence of film cooling, ASME Turbo Expo 2014, Dusseldorf, Germany, paper no. GT2014-26250.
- 23) Cardillo L., Corsini A., Delibra G., Rispoli F., Sheard A.G., Venturini P., Simulation of particle-laden flows in a large centrifugal fan for erosion prediction, ASME Turbo Expo 2014, Dusseldorf, Germany, paper no. GT2014-25865. (Pubblicato anche in: *The Application of Computational Methods in Industrial Fan Design*, Ed. By Geoff Sheard, 2014 (ISBN 978-1-905941-24-7)).
- 24) A. Corsini, G. Delibra, F. Rispoli, P. Venturini, A.G. Sheard, Aerodynamic simulation of a high-pressure centrifugal fan for process industries, ASME Turbo Expo 2013, paper no. GT2013-94982, San Antonio, Texas, June 3-7, 2013.
- 25) F. Birello, D. Borello, P. Venturini, F. Rispoli, Modelling of deposit mechanisms around the stator of a gas turbine, ASME Turbo Expo 2013, paper no. GT2013-95688, San Antonio, Texas, June 3-7, 2013.
- 26) A. Corsini, F. Rispoli, P. Venturini, G.A. Sheard, Numerical modelling of erosion in highly loaded axial flow fans, ASME 2012 Gas Turbine India Conference, paper no. 9693, December 1, 2012, Mumbai, Maharashtra, India.
- 27) M. Bassetti, P. Venturini, E. Tuccimei, A. Corsini, F. Rispoli, G. Delibra, 2012, An integrated procedure for the design of a Wells turbine developed for Mediterranean operation, Proceedings of the European Seminar OWEMES 2012, 5-7 September, Rome, Italy.
- 28) C.M. Mazzoni, P. Venturini, D. Lentini, F. Rispoli: Soot prediction in a turbulent methane/air flame accounting for both gas and particulate radiation. Proceedings of the 7th International Symposium on Turbulence, Heat and Mass Transfer, 24-27 September, 2012, Palermo,
- 29) A. Corsini, V. Giovannoni, S. Nardecchia, F. Rispoli, F. Sciulli, P. Venturini: Performance of a common-rail Diesel engine fuelled with rapeseed and waste cooking oils. ECOS2012, 26-29 June, 2012, Perugia, Italy.
- 30) C. Arrighetti, D. Borello, A. Corsini, F. Rispoli, P. Venturini: An integrated particle-tracking impact/adhesion model for the prediction of fouling in turbomachinery flows. 9th European Conference on Turbomachinery Fluid Dynamics and Thermodynamics (ETC 2011), 21-25 March, 2011, Istanbul, Turkey.
- 31) G. Scarascia Mugnozza, S. Binotti, M. Napoleoni, F. Rispoli, F. Sciulli, P. Venturini, S. Babbin: Straight vegetable oil as fuel in an internal combustion engines for power and heat production. 4th Energy Conference – Palestine, 26-27 January, 2011, Ramallah, Palestine.
- 32) P. Venturini, D. Borello, K. Hanjalić, F. Rispoli: Modelling of particle deposition in an environment relevant to biomass-fired boilers. ASME-ATI-UIT 2010 Conference on Thermal and Environmental Issues in Energy Systems, 16 – 19 May, 2010, Sorrento, Italy.
- 33) P. Venturini, D. Borello, F. Rispoli and K. Hanjalić: A study of wall-deposit formation using LES – generated velocity field. International Conference on Turbulence, Heat and Mass Transfer (THMT-09), 2009, Rome, Italy.

- 34) P. Venturini, D. Borello, F. Rispoli, K. Hanjalić: LES-based prediction of deposit formation on a wall-bounded short cylinder. Int. Symp. on Convective Heat and Mass Transfer in Sustainable Energy (CONV-09). April 26th- May 01st, 2009, Hammamet, Tunisia.
- 35) C.V. Iossa, D. Lentini, F. Rispoli, P. Venturini: Combustion modelling in a biomass-fed boiler. Int. Symp. on Convective Heat and Mass Transfer in Sustainable Energy (CONV-09). April 26th- May 01st, 2009, Hammamet, Tunisia.
- 36) A. Corsini, V. Naso, G. Mattei, P. Venturini: Biomass co-firing: estimation of fuel requirements and land needed to feed some Italian coal power plants. 15th European biomass conference & exhibition, Berlin, 7th-11th May 2007.
- 37) A. Corsini, V. Naso, G. Mattei, P. Venturini: Co-combustion of biomass in Italian coal-fired power plants: a way to achieve the Kyoto goals. 15th European biomass conference & exhibition, Berlin, 7th-11th May 2007.
- 38) A. Corsini, V. Naso, G. Mattei, P. Venturini: Biomass co-firing: analysis of the main technical problems in coal power plants. 15th European biomass conference & exhibition, Berlin, 7th-11th May 2007.

Others

- 1) A. Castorrini, A. Corsini, F. Rispoli, P. Venturini, K. Takizawa, T.E. Tezduyar, SUPG/PSPG computational analysis of rain erosion in wind-turbine blades. In: Advances in Computational Fluid-Structure Interaction and Flow Simulation, Ed. Y. Bazilevs, K. Takizawa, 2016, Springer.
- 2) P. Venturini, A. Corsini, F. Rispoli, 2003, Rassegna dei modelli applicabili al fenomeno dello sporcamento in caldaie alimentate con acque di vegetazione essiccate, Rapporto Tecnico CIRPS/DMA/PIBE/RT-2003/01-A02.
- 3) P. Venturini, A. Corsini, F. Rispoli, 2004, Impatto per inerzia: sintesi numerica, validazione e analisi di sensibilità, Rapporto Tecnico CIRPS/DMA/PIBE/RT-2004/02-A03.
- 4) P. Venturini, A. Corsini, F. Rispoli, 2004, Modello di previsione dell'accumulo di deposito su un tubo cilindrico immerso trasversalmente in un flusso bifase. Applicazione ad un caso campione, Rapporto Tecnico CIRPS/DMA/PIBE/RT-2004/02-A04.
- 5) P. Venturini, A. Corsini, D. Borello, F. Rispoli, 2005, Modello della combustione di biomasse all'interno di una caldaia a griglia fissa/mobile, Rapporto Tecnico CIRPS/DMA/PIBE/RT-2005/02-A01.
- 6) P. Venturini, C.V. Iossa, D. Borello, F. Rispoli, 2006, Analisi termo-fluido-dinamica e previsione dello sporcamento di un combustore per biomasse, Rapporto Tecnico CIRPS/DMA/PIBE/RT-2006/02-A01.
- 7) "Interazioni Macchine e Ambiente", 2011, Dispense del corso di Interazione Macchine e Ambiente.
- 8) "Energie rinnovabili da fonte geotermica", 2014, Dispense del corso di Energie Rinnovabili da Fonte Geologica – Modulo Energie Rinnovabili.
- 9) "Energia dalle biomasse", 2009, Dispense del corso di Sistemi Energetici.

Roma, 29/08/2018

Paolo Venturini

