

TEMPLATE A1: LIST OF SCIENTIFIC (PEER REVIEWED) PUBLICATIONS AND TECHNICAL PAPERS

No.	Title	Main author	Title of the periodical or the series or the event	Number, date or frequency (N/A for events)	Publisher or organiser	Place of publication or event venue	Year of publication or event	Relevant pages or event session	Permanent identifiers [1] (if available)	Is/Will open access [2] (provided to this publication?)
1	Validation of an on-board microphone system for the measurement of the exterior noise of a helicopter	Silviu Emil Ionescu	International Conference of Aerospace Sciences	AEROSPATIAL 2012	INCAS	Bucharest	2012	Section 6	ISSN 2067-8614	Yes, proceedings
2	ANCORA: ANotec-COMoti Rotorcraft Acoustics initiative for preliminary acoustic flight tests for the tuning of simplified rotorcraft noise models	Nico van Oosten	European Rotorcraft Forum	41st	DGLR	Munich	2015	3.7 Acoustics		Yes, proceedings
3	Computational Investigations of Active Flow Control on Helicopter-Rotor Blades	Wienczynslaw Stalewski	Journal of KONES Powertrain and Transport	Vol 21, No.2	Institute of Aviation		2014	p. 282-288	jml2012.indexcopernicus.com/fulltxt.php?ICID=1133905 ISSN: 1231-4005 DOI: 10.5604/12314005.1133905	Yes
4	Rotorcraft Applications of Active Gurney Flap Investigated within the Clean-Sky Project COMROTAG	Wienczynslaw Stalewski	41st European Rotorcraft Forum 2015, Proceedings	2016-01	Deutsche Gesellschaft für Luft- und Raumfahrt	Bonn	2016		ISSN: 0178-6326 ISBN: 978-3-932182-84-6	yes
5	Flow Control on Helicopter-Rotor Blades via Active Gurney Flap	Wienczynslaw Stalewski	Proceedings of The 30th Congress of the International Council of Aeronautical Sciences ICAS2016		ICAS		2016		in print	yes
6	Interlaminar Fracture Toughness of Carbon Fiber Reinforced Thermoplastic In-situ Joints	Radlmaier	AIP Conference Proceedings of PPS 2015 Graz	N/A	Prof. Clemens Holzer Editor of the PPS2015 Proceedings	Graz, Austria	2015	tbd	Will be published by AIP Proceedings by end of this year	No
7	Fabrication of a thermoplastic matrix composite stiffened panel by induction welding	Pappadà	Aerospace Science and Technology	Volume 43	Elsevier		2015	Pages 314-320	http://www.sciencedirect.com/science/article/pii/S1270963815001066	No
8	Helicopter fuselage wake prediction using Detached-Eddy Simulation methods in OpenFOAM	Fuchs	7 th OpenFOAM Workshop	7 th , Jun. 2012		Darmstadt	2012			No
9	Helicopter Fuselage Wake Prediction using Detached-Eddy Simulation	Mockett	Progress in Hybrid RANS-LES Modelling	NNFM vol. 117	Springer	Berlin Heidelberg	2012	413-425	DOI 10.1007/978-3-642-31818-4_36	no
10	Detached-Eddy Simulation of Separated Wake Flow Around Complex Helicopter Fuselage Configuration	Fuchs	Progress in Hybrid RANS-LES Modelling	NNFM vol. 130	Springer	Berlin Heidelberg	2015	131-140	DOI 10.1007/978-3-319-15141-0_10	no
11	Winding design for minimum power loss and low-cost manufacture in application to fixed-speed PM generator	Rafal Wrobel	Proceedings of Energy Conversion Congress and Exposition (ECCE), 2014 IEEE	Annual	IEEE	Pittsburgh, USA	2014	1806 - 1813	DOI: 10.1109/ECCE.2014.6953637	Yes
12	Hardware in the loop emulation of synchronous generators for aircraft power systems	Antonio Griffò	Proceedings of the Electrical Systems for Aircraft, Railway and Ship Propulsion (ESARS), 2012	2012	IEEE	Bologna, Italy	2012	1-6	DOI: 10.1109/ESARS.2012.6387388	No

13	Computationally efficient modelling of permanent magnet synchronous motor drives for real-time Hardware-in-the-Loop simulation	Antonio Griffo	Industrial Electronics Society, IECON 2013 - 39th Annual Conference of the IEEE	2013 (Annual)	IEEE	Vienna, Austria	2013	5368 - 5373	DOI: 10.1109/IECON.2013.6700009	No
14	Hardware in the loop based synchronous generator emulation test rig for more electric aircraft power systems	Antonio Griffo	Proceedings of the 6 th IET Conference on Power Electronics, Machines and Drives, 2012	Apr-12	IET	Brighton, UK	2012	01-Jun	DOI: 10.1049/cp.2012.0248	No
15	Winding Design for Minimum Power Loss and Low-Cost Manufacture in Application to Fixed-Speed PM Generator	Rafal Wrobel	IEEE Industrial Transactions on Industry Applications	18 th May 2015	IEEE		2015	Issue 99, Page 1	DOI: 10.1109/TIA.2015.2434802	Yes
16	Numerical Characterization of Helicopter Noise Hemispheres	Gennaretti M., Serafini J., Bernardini G., Castorriani A., De Matteis G., Avanzini G.	Aerospace Science and Technology..				2016,	52, pp. 18–28	doi: 10.1016/j.ast.2016.02.013	Yes
17	Innovative Helicopter In-Flight Noise Monitoring Enabled by Rotor State Measurements	Trainelli L., Gennaretti M., Bernardini G., Rolando A., Riboldi C. E. D., Redaelli M., Riviello L., Scandroglio A.	Noise Mapping				2016	3, (1), pp. 190-215.	doi: 10.1515/noise-2016-0014	Yes
18	Effective Practices for the Concept Design of Electromechanical Systems	Booker, J. D., Lock, R., Williamson, S. & Freire Gomez, J.	Journal of Engineering, Design and Technology, 14, 3				2016			
19	Multi-Physics Experimental Investigation into Stator-Housing Contact Interface,	Simpson, N., Wrobel, R., Booker, J. D. & Mellor, P. H.	8th IET International Conference on Power Electronics, Machines and Drives			Glasgow - 19 – 21 April,	2016			
20	Effects of Insulation Ageing on the Conductive Heat Transfer from the Winding Body into Machine Periphery/Stator Core Pack	Williamson, S. J., Wrobel, R., Booker, J. D., Yon, J., Mellor, P. H.	8th IET International Conference on Power Electronics, Machines and Drives			Glasgow - 19 – 21 April,	2016			
21	Characterising the Performance of Selected Electrical Machine Insulation Systems	Wrobel, R., Williamson, S. Booker, J. D.	Proc. IEEE Energy Conversion Conference and Expo			Montreal, Canada 20-24 September,	2015			
22	Impact of slot shape on loss and thermal behaviour of open-slot modular stator windings.	Wrobel, R., Williamson, S. J., Simpson, N., Ayat, S., Yon, J., Mellor, P.	Proc. IEEE Energy Conversion Conference and Expo, ,			Montreal, Canada	Sep-15			
23	Trade Study: Influence of Different Blade Shape Designs on Forward Flight and Hovering Performance of an Isolated Rotor	Martin Hollands, Manuel Keßler, Andree Altmikus, Ewald Krämer.	European Rotorcraft Forum	37 th	ERF	Gallarate	2011			Yes
24	Influence of An-/Dihedral and of Different Blade Shapes on Performance and Aeroacoustics of an Isolated Rotor	Martin Hollands, Manuel Keßler, Ewald Krämer.	European Rotorcraft Forum	38 th	ERF	Amsterdam	2012			Yes
25	Generation and Verification of Meshes Used in Automated Process Chains to Optimize Rotor Blades	Patrick Kranzinger, Martin Hollands, Manuel Keßler, Sigfried Wagner, Ewald Krämer.,	Aerospace Sciences Meeting	50 th	AIAA	Nashville	2012			No
26	Planform Design for a Five Bladed Isolated Helicopter Rotor Using Fluid-Structure Coupled CFD Simulations	Martin Hollands, Manuel Keßler, Ewald Krämer.	Applied Aerodynamics Conference	31 st	AIAA	San Diego	2013			No

27	Blade Shape Design: Interpolation Based on Fluid-Structure Coupled Simulations of an Isolated Rotor in Forward Flight	Martin Hollands, Manuel Keßler, Ewald Krämer.	Notes on Numerical Fluid Mechanics and Multidisciplinary Design	124	Springer	Stuttgart	2014		10.1007/978-3-319-03158-3	No
28	Numerical Comparison of Dynamic Stall for Two Dimensional Airfoils and an Airfoil Model in the DNW-TWG	A. Klein, Th. Lutz, E. Krämer, K. Richter, A. D. Gardner, A. R. M. Altmikus.	Journal of the American Helicopter Society	Vol 57, No4	AHS		2012			No
29	Aeroacoustic Validation of the Free Wake Method FIRST on the basis of an EC145-T2 Main Rotor in Descent Flight MORALI	Patrick Kranzinger	European Rotorcraft Forum	42 nd	ERF	Lille	2016			Yes
30	1.2kW Dual-Active Bridge Converter using SiC Power MOSFETs and Planar Magnetics	D. De, A. Castellazzi, A. Lamantia	The 2014 International Power Electronics Conference		ECCE ASIA		12/03/2014			yes
31	SOFT-STARTING PROCEDURE FOR DUAL ACTIVE BRIDGE CONVERTER	F. Giuliani, A. Costabeber, N. Delmonte, P. Cova, A. Castellazzi	COMPEL2015		IEEE		10/07/2015			yes
32	FPGA controlled parallel DAB converter for avionic applications	F. Giuliani, N. Delmonte, P. Cova, A. Costabeber, A. Castellazzi	EPE2015		IEEE		31/08/2015			Yes
33	Regenerative Multi-Source Power Conversion System	C. Klumpner	PEMC Group Conference 2014		IEEE		21/09/2014			Yes
34	Robust snubber-less soft-switching power converter using SiC power MOSFETs and bespoke thermal design	F. Giuliani, D. Dipankar, N. Delmonte, A. Castellazzi, P. Cova	Microelectronics Reliability	54	Elsevier		01/09/2014	Monogram		Yes
35	Helicopter drag reduction by vortex generators.	G. Gibertini, J.C. Boniface, A. Zanotti, G. Droandi, F. Auteri, R. Gaveriaux, A. Le Pape (2015).				Aerospace Science and Technology	2015	Vol.47, p. 324-339, ISSN: 1270-9638	doi:10.1016/j.ast.2015.10.004	Yes
36	Robustness and Limits of Vortex Generator Effectiveness in Helicopter Drag Reduction	A. Zanotti, G. Droandi, F. Auteri, G. Gibertini, A. Le Pape				Journal of the American Helicopter Society, Vol. 61, p.1-20,	2016	ISSN: 2161-6027,	doi:10.4050/JAHS.61.032007	
37	Wind-tunnel tests of a heavy-class helicopter optimised for drag reduction	A. Zanotti, G. Droandi, G. Gibertini, D. Grassi, G. Campanardi, F. Auteri, A. Aceti, A. Le Pape				The Aeronautical Journal, pp. 1-22,	2016	ISSN: 0001-9240	doi:10.1017/aer.2016.60	
38	A Novel Approach for Reconstructing Pressure from Piv Velocity Measurements,	F. Auteri, M. Carini, D. Zagaglia, D. Montagnani, G. Gibertini, C. B. Merz, A. Zanotti				Experiments in Fluids	2015	vol. 56, art. 45, ISSN: 0723-4864,	doi:10.1007/s00348-015-1912-z	
39	Experimental investigation of a helicopter rotor with Gurney flaps	G. Gibertini, A. Zanotti, G. Droandi, F. Auteri, G. Crosta	Aeronautical Journal		Royal Aeronautical Society	Milan	2017	Jan-22	10.1017/aer.2016.120	
40	Test Bench for Helicopter Electro Mechanical Actuation System validation	Imanol Echevarria	Industrial Technology (ICIT IEEE)	N/A	TECNALIA	Seville	2015	517-523		Yes
41	Counter-load simulation rig and ground test bench for helicopter electro-mechanical actuators	Joseba Lasa	R3ASC	2 years	TECNALIA	TOULOUSE	2016			Yes
42	Aerodynamic Optimization of the ERICA Tilt-Rotor Intake and Exhaust System	A. Garavello, R. Ponza, E. Benini	37th European Rotorcraft Forum	annual	N/A	Ticino Park, Italy	2011	8, 11-15	https://www.researchgate.net/publication/236678241_Aerodynamic_Optimization_of_the_ERICA_Tilt-Rotor_Intake_and_Exhaust_System	no

43	Multiobjective Aerodynamic Optimization of the Airframe-Engine integration into the European Tilt-Rotor ERICA Nacelle	A. Garavello, R. Ponza, E. Benini	AHS 68 th Annual Forum and Technology Display	annual	American Helicopter Society	Fort Worth, Texas, USA	2012	N/A	N/A	no
44	Assessment of the engine Installation performance of a redesigned tiltrotor intake/exhaust system	Mistè, G. A.	AHS 68 th Annual Forum and Technology Display	annual	American Helicopter Society	Fort Worth, Texas, USA	2012	N/A	https://vtol.org/store/product/assessment-of-the-engine-installation-performance-of-a-redesigned-tiltrotor-intake-system-5754.cfm	
45	Numerical Assessment of Pneumatic Devices on the Wing/Fuselage Junction of a Tiltrotor	N.Simioni, R.Ponza, E.Benini	AIAA Journal	vol. 50, no. 3, quarterly	American Institute of Aeronautics and Astronautics Inc. (AIAA)	N/A	2013	752-763	http://dx.doi.org/10.2514/1.C031911	no
46	Multi-Objective Aerodynamic Design of Tilt-Rotor Airframe Components by means of Genetic Algorithms and CFD	A. Garavello, R. Ponza, E. Benini	AHS 68 th Annual Forum and Technology Display	annual	American Helicopter Society	Fort Worth, Texas, USA	2012	N/A	https://www.researchgate.net/publication/287101862_Multi-Objective_aerodynamic_design_of_tilt-rotor_airframe_components_by_means_of_genetic_algorithms_and_CFD	no
47	Air Suction and Blowing as Effective Means to Increase Aerodynamic Efficiency of a Tiltrotor Wing-Fuselage Junction	R. Ponza, N.Simioni, E. Benini	Proceedings of the World Congress on Engineering and Computer Science 2012 Vol II	annual	International Association of Engineers	San Francisco, California, USA	2012	Vol II	N/A	no
48	Assessment of Morphing Wings on the horizontal stabilizer of a Tiltrotor	N.Simioni, R.Ponza, E. Benini	AHS 69 th Annual Forum and Technology Display	annual	American Helicopter Society	Phoenix, Arizona, USA	2013	N/A	https://vtol.org/store/product/assessment-of-morphing-wings-on-the-horizontal-stabilizer-of-a-tiltrotor-8695.cfm	no
49	Aerodynamic Optimisation of the AW101 Heavy Helicopter Engine Installation by means of a Multi-objective Approach	A. Garavello, M. Russo, C. Comis, E. Benini, R.Ponza, A.Ramage	38th European Rotorcraft Forum	annual	N/A	Amsterdam, The Netherlands	2011	N/A	https://www.researchgate.net/publication/236678227_Aerodynamic_Optimisation_of_the_AW101_Heavy_Helicopter_Engine_Installation_by_means_of_a_Multi-objective_Approach	no
50	Aerodynamic Shape Optimization of Air-Intakes of a Helicopter Turboshaft	A. Garavello, M.Russo, C. Comis, R.Ponza, E. Benini	ASME 2012 Gas Turbine India Conference	annual	ASME	Mumbai, India	2012	GTINDIA2012 9506, pp. 1-12	http://proceedings.asmedigitalcollection.asme.org/proceeding.aspx?articleid=1754463	no
51	Performance Optimization Of A Heavy Class Helicopter Engine Installation Using Genetic Algorithms coupled with numerical simulations	A.Fabbris, A. Garavello, M. Russo, R. Ponza, E. Benini	AHS 68 th Annual Forum and Technology Display	annual	American Helicopter Society	Fort Worth, Texas, USA	2012	N/A	https://www.researchgate.net/publication/239522019_Performance_Optimization_of_a_Heavy_Class_Helicopter_Engine_Installation_Using_Genetic_Algorithms_Coupled_With_CFD_Simulations	no
52	Multiobjective and Multipoint optimization of a heavy class helicopter engine installation using Evolutionary algorithms	A.Fabbris, A. Garavello, M. Russo, R. Ponza, E. Benini	ADMOS 2013	annual	IACM	Lisbon, Portugal	2013	N/A	N/A	no
53	Numerical vs. experimental assessment of optimization effects on aerodynamic performance of ERICA tiltrotor fuselage	E. Benini, R.Ponza, D. Steiling	41st European Rotorcraft Forum 2015	annual	DGLR (German Society for Aeronautics and Astronautics)	Munich, Germany	2015	N/A	N/A	no
54	ERICA tiltrotor airframe wake characterization	F.De Gregorio, D.Steiling, E. Benini, R.Ponza	41st European Rotorcraft Forum 2015	annual	DGLR (German Society for Aeronautics And Astronautics)	Munich, Germany	2015	N/A	https://www.researchgate.net/publication/281459148_ERICA_tiltrotor_airframe_wake_characterization	yes
55	Parametric Analysis on the Performance of a Tiltrotor Engine Intake considering High Angle of Attack	Giovanni Surace	Master Thesis		University of Padova	Padova (Italy)	Oct-11			
56	Assessment of alternative devices for drag reduction of wing/fuselage junction in a tiltrotor	Nicola Simioni	Master Thesis		University of Padova	Padova (Italy)	Oct-11			

57	Blind test CFD analysis of the wind tunnel models of the ERICA tiltrotor fuselage	?	Master Thesis		University of Padova	Padova (Italy)	Jul-14		50	
58	Effects of Reynolds and Mach number on aerodynamic performance of the ERICA tiltrotor fuselage		Master Thesis		University of Padova	Padova (Italy)	Jul-14		50	
59	Kinetic modelling of extinction and autoignition of condensed hydrocarbon fuels in non-premixed flows with comparison to experiment	Roberto Granaa, Kalyanasundaram Seshadri, Alberto Cuoci, Ulrich Niemann, Tiziano Faravelli, Eliseo Ranzi	Combustion and Flame	Volume 159, Issue 1	ELSEVIER		Jan-12	130-141	http://dx.doi.org/10.1016/j.combustflame.2011.06.019	
60	Hierarchical and comparative kinetic modeling of laminar flame speeds of hydrocarbon and oxygenated fuels	E. Ranzi, A. Frassoldati, R. Grana, A. Cuoci, T. Faravelli, A.P. Kelley, C.K. Law	Progress in Energy and Combustion Science	Volume 38, Issue 4	ELSEVIER		Aug-12	468-501	http://dx.doi.org/10.1016/j.pecs.2012.03.004	
61	Detailed Multi-dimensional Study of Pollutant Formation in a Methane Diffusion Flame	Rory F. D. Monaghan, Rabi Tahir, Alberto Cuoci, Gilles Bourque, Marc Furi, Robert L. Gordon, Tiziano Faravelli, Alessio Frassoldati, Henry J. Curran	Energy and Fuels	Volume 26, issue 4	American Chemical Society		Apr-12	2546-2546	10.1021/ef300515q	
62	Numerical Modeling of NOx Formation in Turbulent Flames Using a Kinetic Post-processing Technique	A. Cuoci, A. Frassoldati, A. Stagni, T. Faravelli, E. Ranzi, G. Buzzi-Ferraris	Energy and Fuels	Volume 27, issue 2	American Chemical Society		Dec-12	1104-1122	10.1021/ef3016987	
63	A fully coupled, parallel approach for the post-processing of CFD data through reactor network analysis	A. Stagni, A. Cuoci, A. Frassoldati, T. Faravelli, E. Ranzi	Computers & Chemical Engineering	Volume 60, Issue 10 J	ScienceDirect		Jan-14	197-212	http://dx.doi.org/10.1016/j.compchemeng.2013.09.002	