



Centro Italiano Ricerche Aerospaziali

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CENTRO DOCUMENTAZIONE

# Raccolta delle Pubblicazioni Scientifiche

**anno 2020**

a cura del Centro Documentazione

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Tipo pubblicazione	Autori Pubblicazione	Titolo Pubblicazione	Congresso - Libro - Rivista - Altro	Anno	Rif. Documentale	Data Rif. Doc.le	Archivio
Conferenza	L. Pellone, M. Ciminello, B. Galasso, U. Mercurio, G. Apuleo, A. Cozzolino, A. Concilio	<i>Detecting of Bonding Defects using an SHM Fiber-Optics Distributed Sensors System in Typical Wing Spar Coupon</i>	FDM 2020 19th International Conference on Fracture and Damage Mechanics. AIP Conference Proceedings: Vol 2309, No1 <a href="http://aip.scitation.org/toc/apc/2309/1">http://aip.scitation.org/toc/apc/2309/1</a>	2020	<a href="#">CIRA-DTS-22-0078</a>	10/01/2022	ATDI
Conferenza	A. Concilio, I. Dimino, R. Pecora, M. Arena	<i>Aircraft morphing systems: Elasticity of selected components and modelling issues</i>	Proc. SPIE 11376, Active and Passive Smart Structures and Integrated Systems XIV, 113760M (19 May 2020); <a href="https://doi.org/10.1117/12.2560161">https://doi.org/10.1117/12.2560161</a>	2020	<a href="#">CIRA-DTS-22-0059</a>	07/01/2022	ATDI
Conferenza	S. Ameduri, B. Galasso, M. Ciminello, A. Concilio	<i>Shape memory alloys compact actuators for aerodynamic surfaces twisting</i>	AIAA SciTech 2020 Forum conf. Proc. Orlando, Florida, Jan 6 - 10, 2020	2020	<a href="#">CIRA-DTS-22-0041</a>	05/01/2022	ATDI
Conferenza	C. Bellini, R. Borrelli, V. Di Cocco, S. Franchitti, F. Iacoviello, L. Sorrentino	<i>Potentiality of hybrid structures in CFRP and additive manufactured metal octet-truss lattice</i>	ScienceDirect 1st Virtual European Conference on Fracture Procedia Structural Integrity 28 (2020) 667–674; <a href="https://doi.org/10.1016/j.prostr.2020.10.077">https://doi.org/10.1016/j.prostr.2020.10.077</a>	2020	<a href="#">CIRA-DTS-21-3248</a>	08/10/2021	PPMM

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Conferenza	V. Di Vito et al	<i>X-TEAM D2D Extended ATM for Door-to-Door Travel</i>	SESAR Innovation Days 2020, 10th edition, 7-10 December 2020	2020	<a href="#">CIRA-DTS-21-2709</a>	05/08/2021	SOTA
Conferenza	V. Di Vito, M. Montesarchio, Bucchignani et al.	<i>CREATE: Innovative operations and Climate and weather modElS to improve ATm resiliencE and reduce impacts</i>	SESAR Innovation Days 2020, 10th edition, 7-10 December 2020	2020	<a href="#">CIRA-DTS-21-2708</a>	05/08/2021	SOTA
Rivista	V. Giannella, F. Branda, J. Passaro, G. Petrone, M. Barbarino, R. Citarella	<i>Acoustic Improvements of Aircraft Headrests Based on Electrospun Mats Evaluated Through Boundary Element Method</i>	Appl. Sci. 2020, 10(16), 5712; <a href="https://doi.org/10.3390/app10165712">https://doi.org/10.3390/app10165712</a>	2020	<a href="#">CIRA-DTS-21-2073</a>	16/06/2021	ACCO
Rivista	V. Giannella, R. Lombardi, M. M. Pisani, L. Federico, M. Barbarino, R. Citarella	<i>A Novel Optimization Framework to Replicate the Vibro-Acoustics Response of an Aircraft Fuselage</i>	Appl. Sci. 2020, 10(7), 2473; <a href="https://doi.org/10.3390/app10072473">https://doi.org/10.3390/app10072473</a>	2020	<a href="#">CIRA-DTS-21-2076</a>	16/06/2021	ACCO

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Conferenza	E. Filippone, F. Corrado, G. Ferrara, D. Taurino, N. Peinecke, E. Pastor, S. Klein, P. Hagstrom	<i>URCLEARED - A Unified Integrated Remain Well Clear Concept in Airspace D-G Classes</i>	SESAR Innovation Days 2020, 10th edition, 7-10 December 2020	2020	<a href="#">SANS-CIRA-DTS-21-1358</a>	20/04/2021	SANS
Rivista	A. French, L. Cutrone, A. Schettino, M. Marini, F. Battista, P. Natale	<i>Reactive flow simulations for a LOX/CH4 rocket engine</i>	"Journal of Aircraft Engineering and Aerospace Technology" Vol. 92, (9), 2020, pp 1339–1344; DOI: <a href="https://doi.org/10.1108/AEAT-01-2020-0006">https://doi.org/10.1108/AEAT-01-2020-0006</a>	2020	<a href="#">ATDI-0002-CIRA-DTS-21-1263</a>	14/04/2021	ATDI
Rivista	F. Di Caprio, C. Manservigi, A. Sellitto, R. Scigliano, M. De Stefano Fumo, A. Riccio, G. Rufolo	<i>Damage Tolerance Evaluation on the C/C-SIC Composites Structures</i>	ICCS23 - 23rd International Conference on Composite Structures & MECHCOMP6 - 6th International Conference on Mechanics of Composites - Faculty of Engineering, University of Porto, Portugal 1-4 September 2020	2020	<a href="#">STMA-CIRA-DTS-20-2459</a>	23/03/2021	STMA
Rivista	M. Manzo, G. Lamanna, F. Di Caprio, A. Chiariello, P. Schatrow, M. Waimer, N. Toso	<i>A Simplified Finite Element Model for Crashworthiness Investigations</i>	FDM 2020 19th International Conference on Fracture and Damage Mechanics AIP Conference Proceedings 2309, 020030 (2020); <a href="https://doi.org/10.1063/5.0034954">https://doi.org/10.1063/5.0034954</a>	2020	<a href="#">CERV-0002-CIRA-DTS-21-0816</a>	11/03/2021	CERV

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Rivista	A. Rosato, F. Guarino, <b>V. Filomena</b> , S. Sibilio, L. Maffei	<i>Experimental Calibration and Validation of a Simulation Model for Fault Detection of HVAC System and Application to a Case Study.</i>	Energies 2020, 13(15), 3948; <a href="https://doi.org/10.3390/en13153948">https://doi.org/10.3390/en13153948</a>	2020	<a href="#">MACI-0110-CIRA-DTS-21-0792</a>	09/03/2021	MACI
Rivista	A. Rosato, F. Guarino, <b>V. Filomena</b> , S. Sibilio, L. Maffei	<i>Preliminary Assessment of Impact of typical Faults on Energy Performance of Air-Handling Units by means of a Dynamic Simulation Model: a Case study.</i>	"8th European Conference on Renewable Energy System" 24-25 August 2020, Istanbul (Turkey). Conf. Proc. ISBN 978-605-86911-8-6	2020	<a href="#">MACI-0109-CIRA-DTS-21-0791</a>	09/03/2021	MACI
Rivista	A. Rosato, F. Guarino, <b>V. Filomena</b> , S. Sibilio, L. Maffei	<i>Preliminary Experimental Calibration and Validation of a Dynamic Simulation Model for Fault Detection and Diagnosis of Air- Handling Units.</i>	"8th European Conference on Renewable Energy System" 24-25 August 2020, Istanbul (Turkey). Conf. Proc. ISBN 978-605-86911-8-6	2020	<a href="#">MACI-0108 CIRA-DTS-21-0790</a>	09/03/2021	MACI
Conferenza	<b>F. Di Caprio</b> , V. Acanfora, <b>S. Franchitti</b> , <b>R. Borrelli</b> , A. Riccio	<i>Numerical applications of an Ansys-based tool to analyze hybrid metal/composite lattice structures</i>	36th International CAE Conference and Exhibition (EnginSoft Newsletter Numerical, y17 n°4 - Special Supplement )	2020	<a href="#">PADI-0003-CIRA-DTS-21-0004</a>	10/02/2021	PADI

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Rivista	M. Ciminello, A. Concilio, B. Galasso, G. Apuleo, S. Shoam	<i>Local High Edge Observation (LHEO) for the Bonding Line Monitoring of a Complex Composite Beam</i>	"Journal of Mechanical Engineering Science" June 9, 2020; Sage, DOI: 10.1177/0954406220932194	2020	<a href="#">STAD-0012-CIRA-DTS-21-0315</a>	03/02/2021	STAD
Rivista	S. Ameduri, A. Concilio	<i>Morphing wings review: aims, challenges, and current open issues of a technology</i>	"Journal of Mechanical Engineering Science", June 9, 2020, Publisher: Sage DOI: 10.1177/0954406220944423	2020	<a href="#">STAD-0013-CIRA-DTS-21-0316</a>	03/02/2021	STAD
Rivista	A. Brindisi, C. Vendittozzi, L. Travascio, L. Di Palma, A. Concilio	<i>Landing gear hard impact: Preliminary study on optic monitoring system</i>	"Journal of Mechanical Engineering Science", June 9, 2020, Publisher: Sage DOI:10.1177/0954406220959358	2020	<a href="#">STAD-0015-CIRA-DTS-21-0318</a>	18/02/2021	STAD
Rivista	A. Concilio, I. Dimino, R. Pecora	<i>SARISTU: Adaptive Trailing Edge Device (ATED) design process review</i>	Chinese Journal of Aeronautics Volume 34, Issue 7, July 2021, Pages 187-210; <a href="https://doi.org/10.1016/j.cja.2020.08.036">https://doi.org/10.1016/j.cja.2020.08.036</a>	2020	<a href="#">STAD-0014-CIRA-DTS-21-0317</a>	03/02/2021	STAD

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Rivista	A. Riccio, A. Russo, A. Sellitto, C. Toscano, D. Alfano, M. Zarrelli	<i>Experimental and Numerical Assessment of Fibre Bridging Toughening Effects on the Compressive Behaviour of Delaminated Composite Plates</i>	"Polymers 2020", 12(3), 554; DOI: <a href="https://doi.org/10.3390/polym12030554">https://doi.org/10.3390/polym12030554</a>	2020	<a href="#">MEOM-0009-CIRA-DTS-20-0461</a>	29/01/2021	MEOM
Rivista	A.L. Zollo, M. Montesarchio et al.	<i>FRIPON: a worldwide network to track incoming meteoroids</i>	"Astronomy & Astrophysics", A&A 644, A53 (2020) <a href="https://doi.org/10.1051/0004-6361/202038649">https://doi.org/10.1051/0004-6361/202038649</a>	2020	<a href="#">METE-0001-CIRA-DTS-21-0117</a>	21/01/2021	METE
Rivista	A.L. Zollo, M. Montesarchio et al.	<i>Cavezzo, the first Italian meteorite recovered by the PRISMA fireball network. Orbit, trajectory, and strewn-field</i>	Monthly Notices of the Royal Astronomical Society, Volume 501, Issue 1, February 2021, Pages 1215–1227, <a href="https://doi.org/10.1093/mnras/staa3646">https://doi.org/10.1093/mnras/staa3646</a>	2020	<a href="#">METE-0002-CIRA-DTS-21-0118</a>	21/01/2021	METE
Rivista	F. Pafferi, G. Zazzaro, A. Martone, P. Bifulco, L. Pavone	<i>Temporal Analysis for Epileptic Seizure Detection by Using Data Mining Approach</i>	6th IEEE Int. Conf. on Data Science and Systems (DSS-2020); Proceedings doi: 10.1109/HPCC-SmartCity-DSS50907.2020.00175	2020	<a href="#">SREV-0004-CIRA-DTS-21-0216</a>	25/01/2021	SREV

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Conferenza	F. Di Caprio, A. Riccio, S. W. Tsai	<i>An Ansys based automatic tool for design novel Double Double Composite Structure</i>	36th International CAE Conference and Exhibition, 30/11-4/12 2020	2020	<a href="#">PADI-CIRA-DTS-21-0005</a>	18/01/2021	PADI
Conferenza	F. Di Caprio, G. Giusto, F. De Nicola, A. Zallo	<i>Structural optimization of Separation Spring Support Assembly of VEGA C interstage 2/3</i>	36th International CAE Conference and Exhibition , 30/11-4/12 2020	2020	<a href="#">PADI-0002-CIRA-DTS-21-0003</a>	11/01/2021	PADI
Tesi di laurea	M. Matrone	<i>Non-Linear Multi-Body Simulation Model for Control System Design of a Re-Entry Module Using a Parafoil</i>	Tesi di laurea magistrale in Ingegneria Aerospaziale, Università Federico II di Napoli, A.A.2019-2020. Candidato : Mirco Matrone; relatore ch.mo prof. Michele Grassi, relatori esterni: ing. G. Guidotti, ing. A. Vitale	2020	<a href="#">LVDS-CIRA-DTS-21-0014</a>	05/01/2021	LVDS
Rivista	R.E. Nargi, F. De Gregorio, P. Candeloro, G. Ceglia, T. Pagliaroli	<i>Evolution of flow structures in twin-rotors wakes in drones by time-resolved PIV</i>	Journal of Physics: Conference Series 1977 012008, AIVELA XXVIII National Meeting 2020	2020	<a href="#">TIAG-0011-CIRA-DTS-20-3595</a>	05/01/2021	TIAG



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Rivista	A. Martucci, G. Cerasuolo, O. Petrella, M. Laracca	<i>On the Calibration of GNSS-Based Vehicle Speed Meters</i>	Sensors 2020, 20(3), 591; <a href="https://doi.org/10.3390/s20030591">https://doi.org/10.3390/s20030591</a>	2020	<a href="#">TAST-0119-CIRA-DTS-20-3596</a>	04/01/2021	TAST
Rivista	V. di Vito, G. Torrano	<i>RPAS Automatic ADS-B Based Separation Assurance and Collision Avoidance System Real-Time Simulation Results</i>	Drones 2020, 4(4), 73; <a href="https://doi.org/10.3390/drones4040073">https://doi.org/10.3390/drones4040073</a>	2020	<a href="#">SOTA-0036 CIRA-DTS-20-3597</a>	28/12/2020	SOTA
Tesi di laurea	A. Menichino	<i>Stateflow model design of the Automation Logic Supervisor for an Integrated Mission Management System</i>	Tesi di Laurea Magistrale in Scienze e Tecnologie della Navigazione Ambito "Gestione e Sicurezza del Volo"; relatori ch.mo prof. G. del Core, ch.mo prof. S. Ponte; correlatori ingg V. Di Vito, G. Torrano; candidato Aniello Menichino. A.A. 2019-2020	2020	<a href="#">SOTA-0033 CIRA-DTS-20-3586</a>	24/12/2020	SOTA
Rivista	D. Bonaldo, E. Bucchignani, A. Pomaro, A. Ricchi, M. Sclavo, S. Carniel	<i>Wind waves in the Adriatic Sea under a severe climate change scenario and implications for the coasts</i>	"International J. Climatology" ed Wiley 2020; Volume40, Issue12 (pagg 1-18) DOI: 10.1002/joc.6524	2020	<a href="#">METE-0047-CIRA-DTS-20-3430</a>	14/12/2020	METE

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Conferenza	G. Zazzaro, F. Martone, G. Romano, A. Vitale, E. Filippone	<i>P4T: A Methodology to Support the Flight Trajectory Prediction. An introduction to the PIU4TP project</i>	" SESAR Innovation Days 2020" , Dec 7 - 10, 2020	2020	<a href="#">SREV-0055-CIRA-DTS-20-3389</a>	14/12/2020	SREV
Conferenza	D. Pascarella, G. Gigante, G. Persechino, A. Vozella	<i>SWADAR Factsheet (Swarm Advances Detection and Tracking)</i>	"EDA Annual Conference 2020: Sustaining European Defence" Agenzia Europea per la Difesa , 3/12/2020	2020	<a href="#">ISVV-0092-CIRA-DTS-20-3392</a>	14/12/2020	ISVV
Rivista	A. Hochman, P. Alpert, M. Baldi, E. Bucchignani, E. Coppola, Y. Dahdal, N. Davidovitch, P. Georgiades, S. Helgert, H.Khreis, H. Levine, S. Materia, M. Negev, I. Salah, M. Shaheen, F. Giorgi	<i>Interdisciplinary Regional Collaboration for Public Health Adaptation to Climate Change in the Eastern Mediterranean</i>	"American Meteorological Society" BAMS, <a href="https://doi.org/10.1175/BAMS-D-20-0065.1">https://doi.org/10.1175/BAMS-D-20-0065.1</a> - October 2020	2020	<a href="#">METE-0046-CIRA-DTS-20-3418</a>	11/12/2020	METE
Rivista	P. Kumar, S. Debele, J. Sahani, F. Barisani, B. Basu, E. Bucchignani, S. Di Sabatino, A. Domeneghetti et al.	<i>Towards an operationalisation of nature-based solutions for natural hazards</i>	"Science of the Total Environment", 731 (2020) 138855 ; <a href="https://doi.org/10.1016/j.scitotenv.2020.138855">https://doi.org/10.1016/j.scitotenv.2020.138855</a>	2020	<a href="#">METE-0045-CIRA-DTS-20-3417</a>	11/12/2020	METE

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Conferenza	G. Persechino, V.R. Baraniello, R. Borsa	<i>Hybrid High Altitude Airship: A Novel Approach to the Design of High Altitude Pseudo Satellite</i>	AUVSI Xponential 2020 - virtual edition	2020	<a href="#">TABC-CIRA-DTS-20-2522</a>	09/12/2020	TABC
Rivista	B. Mele, R. Tognaccini, P. Catalano, D. de Rosa	<i>Effect of body shape on riblets performance</i>	" Physical Review Fluids" Vol. 5, No. 12 DOI: 10.1103/PhysRevFluids.5.124609	2020	<a href="#">MOFL-0023-CIRA-DTS-20-3353</a>	09/12/2020	MOFL
Conferenza	M. Arena, A. Chiariello, M. Castaldo, L. Di Palma	<i>Optimization of vibration levels of a main landing gear composite door for high speed rotorcraft</i>	"10th EASN International Conference" - 2-4 September 2020	2020	<a href="#">ANGE-0047-CIRA-DTS-20-3280</a>	03/12/2020	ANGE
Conferenza	L. Travascio, G. Buzzo, M. A. Solazzo, A. Vozella	Reliability Evaluation of an experimental set-up using limited flight test data	30th European Safety and Reliability Conference and the 15th Probabilistic Safety Assessment and Management Conference "ESREL 2020" "PSAM 15" ISBN: 981-973-0000-00-0	2020	<a href="#">AFSI-CIRA-DTS-20-3083</a>	09/12/2020	AFSI

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Conferenza	M. Belardo, G. Diodati, J. Beretta, N. Palett, V. Giuliani, S. Orlando, P. Ariola, M. Graziano, C. Pezzella, L. Di Palma	On the wing design of NGCTR-TD	10th EASN International Virtual Conference on "Innovation in Aviation & Space to the Satisfaction of the European Citizens"	2020	<a href="#">TWIN-CIRA-DTS-20-3246</a>	01/12/2020	TWIN
Conferenza	A. Sorrentino, A. Chiariello, L. Di Palma, A. De Fenza	Experimental investigation of damage detection on structures with friction stir welding (FSW) junctions	10th EASN 2020-IOP Conf. Series: Materials Science and Engineering 1024 (2021) 012031 IOP Publishing doi:10.1088/1757-899X/1024/1/012031	2020	<a href="#">SATM-0026-CIRA-DTS-20-3248</a>	03/12/2020	SATM
Rivista	M. Belardo, J. Beretta, A. D. Marano, G. Diodati, N. Paletta, L. Di Palma	On the Preliminary Structural Design Strategy of the Wing of the Next-Generation Civil Tiltrotor Technology Demonstrator	International Journal of Aeronautical and Space Sciences <a href="https://doi.org/10.1007/s42405-020-00330-2">https://doi.org/10.1007/s42405-020-00330-2</a>	2020	<a href="#">CIRA-DTS-20-3249</a>	04/12/2020	
Conferenza	A. Vozella, F. Muñoz Sanz, M.A. Solazzo, E.M. Armengol, P. Bieber, G. Ferrara	<i>Solution Set-up for Airport Protection from Intruder Drones</i>	30th European Safety and Reliability Conference and the 15th Probabilistic Safety Assessment and Management Conference "ESREL 2020" "PSAM 15" ISBN: 981-973-0000-00-0 ; doi: 10.3850/981-973-0000-00-0 esrel2020psam15-paper	2020	<a href="#">ASSI-CIRA-DTS-20-3081</a>	23/11/2020	ASSI

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Rivista	M. De Cesare, L. Savino, A. Di Leva, D. Rapagnani, A. Del Vecchio, A. D'Onofrio, L. Gialanella	<i>Gamma and infrared novel methodologies in Aerospace re-entry: -rays crystal efficiency by GEANT4 for TPS material recession assessment and simultaneous dual color infrared temperature determination</i>	"Nuclear Inst. and Methods in Physics Research B" 479 (2020) 264–271; DOI: <a href="https://doi.org/10.1016/j.nimb.2020.02.005">https://doi.org/10.1016/j.nimb.2020.02.005</a>	2020	<a href="#">MEOM-0095-CIRA-DTS-20-3165</a>	27/11/2020	MEOM
Rivista	F. Di Caprio, A. Sellitto, S. Saputo, M. Guida, A. Riccio	<i>A Sensitivity Analysis of the Damage Behavior of a Leading-Edge Subject to Bird Strike</i>	"Applied Sciences" 2020, 10, 8187; DOI:10.3390/app10228187	2020	<a href="#">PADI-0037-CIRA-DTS-20-3150</a>	30/11/2020	PADI
Rivista	C. Purpura	<i>Methods for the Material Spectral Emissivity Evaluation by Dual-Colour Pyrometer in a Hypersonic Plasma Test Facility</i>	IEEE Journal on Miniaturization for Air and Space Systems ( Volume: 2, Issue: 2, June 2021); <a href="https://doi.org/10.1109/JMASS.2020.3023968">https://doi.org/10.1109/JMASS.2020.3023968</a>	2020	<a href="#">INPP-0057-CIRA-DTS-20-3091</a>	01/12/2020	INPP
Rivista	E. Bucchignani, P. Mercogliano	<i>High-resolution simulations with COSMO model including TERRA_URB parameterization for the representation of Urban Heat Islands over South Italy</i>	Adv. Sci. Res., 17, 19–22, 2020. <a href="https://doi.org/10.5194/asr-17-19-2020">https://doi.org/10.5194/asr-17-19-2020</a> .	2020	<a href="#">METE-0043 CIRA-DTS-20-3101</a>	26/11/2020	METE

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Rivista	C. Steger, E. Bucchignani	<i>Regional Climate Modelling with COSMO-CLM: History and Perspectives</i>	"Atmosphere" 2020, 11, 1250; doi:10.3390/atmos11111250	2020	<a href="#">METE-0044 CIRA-DTS-20-3112</a>	26/11/2020	METE
Rivista	E. Bucchignani, A. Voudouri, P. Mercogliano	<i>A Sensitivity Analysis with COSMO-LM at 1 km Resolution over South Italy</i>	"Atmosphere" 2020, 11, 430; doi:10.3390/atmos11040430	2020	<a href="#">METE-0039 CIRA-DTS-20-3012</a>	23/11/2020	METE
Rivista	S. Franchitti, C. Pirozzi, R. Borrelli	<i>Influence of hot isostatic pressing and surface finish on the mechanical behaviour of Ti6Al4V processed by electron beam melting</i>	"Fatigue Fracture of Engineering Materials Structures" (FFEMS). 2020; 43:2828–2841. DOI: 10.1111/ffe.13295	2020	<a href="#">PRMM-0055-CIRA-DTS-20-2913</a>	13/11/2020	PRMM
Rivista	F. Scherillo, E. Manco, A. El Hassanin, S. Franchitti, C. Pirozzi, R. Borrelli	<i>Chemical surface finishing of electron beam melted Ti6Al4V using HF-HNO3 solutions</i>	"Journal of Manufacturing Processes" 60 (2020) 400–409, <a href="https://doi.org/10.1016/j.jmapro.2020.10.033">https://doi.org/10.1016/j.jmapro.2020.10.033</a>	2020	<a href="#">PRMM-0056-CIRA-DTS-20-2914</a>	13/11/2020	PRMM

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Rivista	M. Poderico, G. Morani	<i>Validation of Tools for 3 Dof Orbital Dynamics Simulation -</i>	"American Journal of Engineering and Applied Sciences" 2020, 13 (4): 649.657 DOI: 10.3844/ajeassp.2020.649.657	2020	<a href="#">GNC2-0003-CIRA-DTS-20-2712</a>	12/11/2020	GNC2
Tesi di laurea	F.A. D'Aniello	<i>Fluid Model for Electrons in Hall Effect Thrusters Plasma</i>	Tesi di Laurea Magistrale in Propulsione Aerospaziale, Università degli studi della Campania Luigi Vanvitelli; Candidato ing. F.A. D'Aniello, relatore ch.mo prof. E. Martelli, Tutor ingg. M.Panelli, F. Battista; A.A. 2019/2020	2020	<a href="#">PRPU-0019-CIRA-DTS-20-2835</a>	11/11/2020	PRPU
Rivista	M. Ferraiuolo, M. Leo, R. Citarella	<i>On the Adoption of Global/Local Approaches for the Thermomechanical Analysis and Design of Liquid Rocket Engines</i>	"Applied Sciences" 2020, 10, 7664; DOI: <a href="https://doi.org/10.3390/app10217664">https://doi.org/10.3390/app10217664</a>	2020	<a href="#">TRTC-0019-CIRA-DTS-20-2809</a>	09/11/2020	TRTC
Conferenza	F. Battista, D. Ricci, M. Invigorito, A. Smoraldi	<i>Medium Scale Vacuum Chamber: the First Space Simulator dedicated to Low Power Electric Thrusters operating at CIRA</i>	"71st International Astronautical Congress" (IAC-2020) – The CyberSpace Edition, 12-14 October 2020	2020	<a href="#">PREL-0046-CIRA-DTS-20-2826</a>	05/11/2020	PREL

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Rivista	D. Darsena, G. Gelli, I. Iudice, F. Verde	<i>Separable MSE-based design of two-way multiple-relay cooperative MIMO 5G networks</i>	"Sensors" 2020, 20, 6284; <a href="https://doi.org/10.3390/s20216284">https://doi.org/10.3390/s20216284</a>	2020	<a href="#">TRAD-0011-CIRA-DTS-20-2837</a>	04/11/2020	TRAD
Libro	S. Ullo, M. Gallo, M. Di Bisceglie, C. Galdi, M. Marinelli, L. Glielmo, G. Palmieri, P. Amenta, A. Ferrara, M. Ferrucci, G. Romano, M. Russo, M. De Angelis	<i>A Flexible Mobility System based on Small and Low-emission Vehicles for Smart and Green Mobility</i>	Capitolo del Libro "Internet of things: technologies, challenges and impact" Editore: Texmat, Anno 2020 ; EAN: 9788894982381	2020	<a href="#">SREV-0047-CIRA-DTS-20-2846</a>	03/11/2020	SREV
Tesi di Laurea	B. Milo	<i>Particle-In-Cell Simulation of Ions and Neutrals in Hall Effect Thrusters Plasma</i>	Tesi di Laurea in Ingegneria Aerospaziale , Univ Federico II di Napoli. Candidato B. Milo; relatore ch.mo prof. R. Savino, correlatori ing. M. Panelli, Ing. F. Battista. A. A. 2019-2020	2020	<a href="#">PRPU-0018-CIRA-DTS-20-2827</a>	02/11/2020	PRPU
Rivista	S. W. Tsat, W.E. Guin, A. Riccio, F. Di Caprio, T. Massard	<i>Weight and cost reduction with double-double laminates</i>	"JEC Composites Magazine", n.137 (pp. 64-65 )Nov-Dec 2020	2020	<a href="#">STMA-0121-CIRA-DTS-20-2770</a>	30/10/2020	STMA



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Rivista	A.T. Silvestri, S. Foglia, <b>R. Borrelli</b> , S. Franchitti, C. Pirozzi, A. Astarita	<i>Electron beam melting of Ti6Al4V: Role of the process parameters under the same energy density</i>	"Journal of Manufacturing Processes", 60 (2020) 162–179 <a href="https://doi.org/10.1016/j.jmapro.2020.10.065">https://doi.org/10.1016/j.jmapro.2020.10.065</a>	2020	<a href="#">PRMM-0051-CIRA-DTS-20-2769</a>	30/10/2020	PRMM
Rivista	<b>M. Poderico</b> , G. Morani	<i>Validation of Tools for 6 Dof Orbital Dynamics Simulation -</i>	"American Journal of Engineering and Applied Sciences", 2020, 13 (4): 602.609 DOI: 10.3844/ajeassp.2020.602.609	2020	<a href="#">GNC2-0004-CIRA-DTS-20-2713</a>	28/10/2020	GNC2
Conferenza	<b>R. Scigliano</b> , S. Di Benedetto, <b>M. Marini</b> , V. Villace, J. Steelant	<i>HEXAFly-INT Hypersonic Vehicle Thermal Protection System Design</i>	"71st International Astronautical Congress" (IAC 2020) – The CyberSpace Edition, 12-14 October 2020 (IAC-20-56572)	2020	<a href="#">TRTC-0018-CIRA-DTS-20-2611</a>	19/10/2020	TRTC
Tesi di Laurea	V. Boffula	<i>Cfd analyses of a Liquid Rocket Engine with a transpired injection plate - Tesi specialistica</i>	Tesi di laurea magistrale, Corso di Laurea Magistrale in Ingegneria Spaziale e Astronautica, Università La Sapienza di Roma. A.A. 2019-2020. Candidato: Valeria Boffula, Relatore Chiar.mo prof Francesco Nasuti, Tutor Ing. Pasquale Natale	2020	<a href="#">PRPU-0013-CIRA-DTS-20-1968</a>	19/10/2020	PRPU

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Rivista	A. Pellegrini, P. Di Sanzo, B. Bevilacqua, G. Duca, <b>D. Pascarella, R. Palumbo</b> , J.J. Ramos, M.A. Piera, <b>G. Gigante</b>	<i>Simulation-based Evolutionary Optimization of Air Traffic Management</i>	" IEEE Access", vol. 8, pp. 161551-161570, 2020; doi: 10.1109/ACCESS.2020.3021192.	2020	<a href="#">ISVV-0072-CIRA-DTS-20-2201</a>	16/10/2020	ISVV
Conferenza	M. Manzo, G. Lamanna, <b>F. Di Caprio, A. Chiariello</b> , M. Weimer, N. Toso	<i>A simplified finite element model for crashworthiness investigation</i>	FDM 2020 19th International Conference on Fracture and Damage Mechanics. AIP Conference Proceedings 2309, 020030 (2020); <a href="https://doi.org/10.1063/5.0034954">https://doi.org/10.1063/5.0034954</a>	2020	<a href="#">PADI-0032-CIRA-DTS-20-2451</a>	07/10/2020	PADI
Conferenza	<b>A. Chiariello, S. Orlando</b> , P. Vitale, M. Linari, R. Longobardi, <b>L. Di Palma</b>	<i>Clash analysis of main landing gear door using advanced non linear finite element analysis</i>	"10th EASN International Conference" - 2-4 September 2020	2020	<a href="#">ANGE-0041-CIRA-DTS-20-2453</a>	07/10/2020	ANGE
Rivista	A. Sellitto, <b>F. Di Caprio, M. Guida</b> , S. Saputo, A. Riccio	<i>Dynamic Pulse Buckling of Composite Stanchions in the Sub-Cargo Floor Area of a Civil Regional Aircraft</i>	Materials 2020, 13(16), 3594; <a href="https://doi.org/10.3390/ma13163594">https://doi.org/10.3390/ma13163594</a>	2020	<a href="#">PADI-0033-CIRA-DTS-20-2454</a>	07/10/2020	PADI

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Conferenza	M. Ciminello, S. Ameduri, F. Romano	<i>Impact area estimation in CFRP panels by cross-correlation driven features and distributed sensing</i>	European Workshop on Structural Health Monitoring. EWSHM 2020. Lecture Notes in Civil Engineering, vol 128. Springer, Cham. <a href="https://doi.org/10.1007/978-3-030-64908-1_36">https://doi.org/10.1007/978-3-030-64908-1_36</a>	2020	<a href="#">SMAF-0045-CIRA-DTS-20-2497</a>	06/10/2020	SMAF
Rivista	F. De Gregorio, A. Visingardi, M. Coletta, G. Iuso	<i>An assessment of vortex detection criteria for 2C-2D PIV data</i>	"Journal of Physics: Conference Series" 1589 (2020) 012001 IOP Publishing; AIVELA XXVII Annual National Meeting; doi:10.1088/1742-6596/1589/1/012001	2020	<a href="#">MEOM-0070-CIRA-DTS-20-2271</a>	14/09/2020	MEOM
Rivista	F. De Gregorio, A. Visingardi	<i>Vortex detection criteria assessment for PIV data in rotorcraft applications</i>	"Experiments in Fluids" (2020) 61:179 <a href="https://doi.org/10.1007/s00348-020-03012-7">https://doi.org/10.1007/s00348-020-03012-7</a>	2020	<a href="#">MEOM-0067-CIRA-DTS-20-2147</a>	28/08/2020	MEOM
Conferenza	A. Martucci, O. Petrella, F. De Gregorio, L. Marciano, M. Musto, G. Rotondo, E. Gaudino	<i>Innovative Calibration methodology for Gardon Gauge heat flux meter</i>	"IEEE 2020-7th International Workshop on Metrology for AeroSpace", MetroAeroSpace 2020 proc. doi: 10.1109/MetroAeroSpace48742.2020.9160133	2020	<a href="#">TAST-0066-CIRA-DTS-20-2053</a>	31/07/2020	TAST

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Tesi di Dottorato	M. Cicala	<i>Navigation Technologies for Unmanned Aircraft System Traffic Management (UTM)</i>	Tesi di Dottorato di Ricerca in Ingegneria Industriale e dell'Informazione XXXII Ciclo. Candidato Ing. Marco Cicala, relatore: ch.mo prof M. Mattei, tutor: prof. O. Manca	2020	<a href="#">SVHL-CIRA-DTS-20-2023</a>	30/07/2020	SVHL
Tesi di Laurea	M. Leo	<i>Sviluppo di un modello Global/Local iterativo per l'analisi termo-meccanica di una camera di spinta di un motore a razzo a combustibile liquido</i>	Tesi di laurea magistrale in Costruzione di macchine ed elementi finiti. Università degli studi di Salerno. Candidato: Michele Leo, relatore: Ch.mo Prof. R. G. Citarella, Ing. M. Ferraiuolo A.A. 2019/2020	2020	<a href="#">TRTC-0015-CIRA-DTS-20-1991</a>	27/07/2020	TRTC
Conferenza	M. de Stefano Fumo	<i>Overview on Thermal Protection Materials Development &amp; Testing at the Italian Aerospace Research Centre</i>	"AMETEE VIRTEX" Advanced Materials & Enabling Technologies for Extreme Environments	2020	<a href="#">PSHS-0013-CIRA-DTS-20-1964</a>	27/07/2020	PSHS
Rivista	A. Arteiro, N. Sharma, J.D. Melo, S. Kyu Ha, A.Miravete, Y.Miyano, T. Massard, P.D. Shah, S.R. Rainsberge, K. Rother, C. Cimini, J.M. Seng, F.K. Arakaki, T.Tay, W.II Lee, S.Sihn, G.S. Springer, A.Roy, A. Riccio, F. Di Caprio, S. Shrivastava et al.	<i>A case for Tsai's Modulus, an invariant-based approach to stiffness</i>	"Composite Structures" 252 (2020) 112683 doi: <a href="https://doi.org/10.1016/j.compstruct.2020.112683">https://doi.org/10.1016/j.compstruct.2020.112683</a>	2020	<a href="#">STMA-0069-CIRA-DTS-20-1963</a>	22/07/2020	STMA

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Conferenza	G. Corrado, E. Bove, P. Canzolino, M. Cicala, U. Ciniglio, F. Corrado, G. Di Capua, E. Filippone, L. Garbarino, N. Genito, R. Rocchio	<i>Real-Time HW and Human-in-the-Loop Simulations for the Validation of Detect and Avoid Advanced Functionalities in ATM Future Scenarios</i>	39th Digital Avionics Systems Conference (AIAA/IEEE) October 13 - 15, 2020 , IEEE Xplore <a href="https://doi.org/10.1109/DASC50938.2020.9256430">https://doi.org/10.1109/DASC50938.2020.9256430</a>	2020	<a href="#">TECV-0029-CIRA-DTS-20-1919</a>	21/07/2020	TECV
Rivista	A. Vigliotti, S. S. Shishvan, R. M. McMeeking, V. S. Deshpande	<i>Response of cells on a dense array of micro-posts</i>	Meccanica volume 56, pages1635–1651 (2021) <a href="https://link.springer.com/article/10.1007/s11012-020-01208-z">https://link.springer.com/article/10.1007/s11012-020-01208-z</a>	2020	<a href="#">STMA-0066-CIRA-DTS-20-1926</a>	21/07/2020	STMA
Conferenza	F. Piscitelli	<i>Superhydrophobic coatings for aeronautical applications</i>	" IEEE 2020-7th International Workshop on Metrology for AeroSpace" MetroAeroSpace 2020 proc. doi: 10.1109/MetroAeroSpace48742.2020.9160257	2020	<a href="#">PRMC-0050-CIRA-DTS-20-1157</a>	15/05/2020	PRMC
Rivista	G. Ceglia, M. Invigorito, M. Chiatto, C. Salvatore Greco, G. Cardone, L. de Luca	<i>Flow characterization of an array of finite-span synthetic jets in quiescent ambient Published on Experimental Thermal and Fluid Science</i>	"Experimental Thermal and Fluid Science" 119 (2020) 110208 DOI <a href="https://doi.org/10.1016/j.expthermflusci.2020.110208">https://doi.org/10.1016/j.expthermflusci.2020.110208</a>	2020	<a href="#">MEOM-0050-CIRA-DTS-20-1844</a>	16/07/2020	MEOM

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Conferenza	G. Ceglia, M. Invigorito, M. Chiatto, C. Salvatore Greco, G. Cardone, L. de Luca	<i>Flow control on a 2D back-facing ramp by Synthetic Jets</i>	"IEEE 2020-7th International Workshop on Metrology for AeroSpace". MetroAeroSpace 2020 conference 20-24 June 2020	2020	<a href="#">MEOM-0051-CIRA-DTS-20-1845</a>	16/07/2020	MEOM
Rivista	D. Rapagnani, M. De Cesare, D. Alfano, R. Buompane, S. Cantoni, M. De Stefano Fumo, A. Del Vecchio, A. D'Onofrio, G. Porzio, G.C. Rufolo, L. Gialanella	<i>Ion Beam Analysis for recession determination and composition estimate of aerospace Thermal Protection System materials</i>	"Nuclear Inst. and Methods in Physics Research" B 467 (2020) 53–57 DOI <a href="https://doi.org/10.1016/j.nimb.2020.01.006">https://doi.org/10.1016/j.nimb.2020.01.006</a>	2020	<a href="#">MEOM-0052-CIRA-DTS-20-1846</a>	16/07/2020	MEOM
Rivista	L. Savino, A. Martucci, A. Del Vecchio, M. De Cesare	<i>A novel physics methodology based on compact emission spectroscopy in the VNIR (0.4–0.9 μm) ranges for plasma shock layer/material temperature determinations and surface emissivity evaluations in the VNIR – LWIR (7–14 μm) ranges during atmospheric re-entry by PWT facility</i>	"Infrared Physics and Technology" 108 (2020) 103353 DOI <a href="https://doi.org/10.1016/j.infrared.2020.103353">https://doi.org/10.1016/j.infrared.2020.103353</a>	2020	<a href="#">MEOM-0053-CIRA-DTS-20-1848</a>	16/07/2020	MEOM
Conferenza	P. Catalano, D. de Rosa	<i>Large Eddy Simulations and RANS models for airfoils at low Reynolds number</i>	"AIAA Aviation 2020 Forum" (n. 2020-2990) <a href="https://doi.org/10.2514/6.2020-2990">https://doi.org/10.2514/6.2020-2990</a>	2020	<a href="#">MOFL-0012-CIRA-DTS-20-1812</a>	15/07/2020	MOFL

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Rivista	A. Chiariello, S. Orlando, P. Vitale, M. Linari, R. Longobardi, L. Di Palma	<i>Development of a Morphing Landing Gear Composite Door for High Speed Compound Rotorcraft</i>	"Aerospace" 2020, 7, 88; doi:10.3390/aerospace7070088 www.mdpi.com/journal/aerospace	2020	<a href="#">PADI-0024-CIRA-DTS-20-1638</a>	14/07/2020	PADI
Conferenza	F. Piscitelli, S. Ameduri, A. Brindisi, L. Pellone, A. Concilio, L. Maio, V. Memmolo, F. Ricci, M. Laracca	<i>On the use of smart on-board systems for aircraft ice removal</i>	"IEEE 2020-7th International Workshop on Metrology for AeroSpace" MetroAeroSpace 2020 conference 20-24 June 2020	2020	<a href="#">PRMC-0073-CIRA-DTS-20-1582</a>	13/07/2020	PRMC
Tesi di laurea	A. Oliviero	<i>Sviluppo SDR di un trasmettitore ADS-B per sistemi UAV</i>	Tesi di Laurea Specialistica in Ingegneria delle Telecomunicazioni, Università degli Studi di Napoli "Federico II". Candidato: Aniello Oliviero. Relatore: Prof. Giacinto Gelli. Correlatore: Dott. Ing. Ivan Iudice. Discussa il 14/07/2020	2020	<a href="#">TRAD-0008-CIRA-DTS-20-1778</a>	13/07/2020	TRAD
Conferenza	D. Ricci, F. Battista, M. Fragiacomò	<i>Cooling Jacket Thermal Behaviour in a Liquid Oxygen/Liquid Methane Rocket Engine Demonstrator</i>	"Conferenza HEFAT 2020" - 15th International Conference on Heat Transfer, Fluid Mechanics and Thermodynamics - Amsterdam. Energies 2022, 15, 4190 <a href="https://doi.org/10.3390/en15124190">https://doi.org/10.3390/en15124190</a>	2020	<a href="#">HNEW-0032-CIRA-DTS-20-1731</a>	13/07/2020	HNEW

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Tesi di laurea	F. Pafferi	<i>Tecniche di data mining per la detezione automatica di crisi in pazienti epilettici</i>	Universita' Federico II, Scuola politecnica delle scienze di base, D.I.E.T.I. Tesi di laurea in Ingegneria Biochimica; candidato: Francesca Pafferi, relatore: prof. Paolo Bifulco, correlatori: dr. G. Zazzaro , ing. L. Pavone A.A. 2019/2020	2020	<a href="#">SICA-0014-CIRA-DTS-20-1770</a>	08/07/2020	SICA
Rivista	D. Quagliarella, E. Morales Tirado, A. Bornaccioni	<i>Risk measures applied to robust aerodynamic shape design optimization</i>	" Lecture Notes in Applied and Computational Mechanics" 2, DOI: <a href="https://doi.org/10.1007/978-3-030-36514-1_9153">https://doi.org/10.1007/978-3-030-36514-1_9153</a> , Springer Nature	2020	<a href="#">APMD-0015-CIRA-DTS-20-1620</a>	06/07/2020	APMD
Conferenza	D. Quagliarella, L. Gentile, E. Morales Tirado, E. Minisci, T. Bartz-Beielstein, R. Tognaccini	<i>High-Lift Devices Topology Optimisation using Structured-Chromosome Genetic Algorithm</i>	"IEEE World Congress on Computational Intelligence 2020" July, 2020, Glasgow (UK) <a href="https://doi.org/10.1109/CEC48606.2020.9185603">https://doi.org/10.1109/CEC48606.2020.9185603</a>	2020	<a href="#">APMD-0016-CIRA-DTS-20-1621</a>	06/07/2020	APMD
Conferenza	D. Quagliarella, M. Diez	<i>An Open-Source Aerodynamic Framework for Benchmarking Multi-Fidelity Methods</i>	"AIAA Aviation 2020 Forum" <a href="https://doi.org/10.2514/6.2020-3179">https://doi.org/10.2514/6.2020-3179</a>	2020	<a href="#">APMD-0017-CIRA-DTS-20-1622</a>	06/07/2020	APMD



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Rivista	A. Schettino, G. Pezzella, M. Marini, S. Di Benedetto, V. F. Villace, J. Steelant, R. Choudhury, A. Gubanov, N. Voevodenko	<i>Aerodynamic database of the HEXAFLY_INT hypersonic glider</i>	"CEAS Space Journal" 12, 295-311(2020); DOI: <a href="https://doi.org/10.1007/s12567-020-00299-4">https://doi.org/10.1007/s12567-020-00299-4</a> ;	2020	<a href="#">ATDI-0009-CIRA-DTS-20-1677</a>	06/07/2020	ATDI
Conferenza	A. Pagano, C. Izzo	<i>A wind tunnel sensor network for a cost-effective evaluation of aircraft drag reduction from riblets</i>	"IEEE 2020-7th International Workshop on Metrology for AeroSpace" MetroAeroSpace 2020 proc. doi: 10.1109/MetroAeroSpace48742.2020.9160078	2020	<a href="#">PTUN-0019-CIRA-DTS-20-1588</a>	29/06/2020	PTUN
Rivista	C. Pirozzi, S. Franchitti, R. Borrelli, A. Chiariello, L. Di Palma	<i>The effect of post processing on the mechanical behavior of Ti6Al4V manufactured by electron beam powder bed fusion for General Aviation primary structural applications</i>	"Aerospace" 2020, 7(6), 75 <a href="https://doi.org/10.3390/aerospace7060075">https://doi.org/10.3390/aerospace7060075</a>	2020	<a href="#">STMA-0037-CIRA-DTS-20-1396</a>	29/06/2020	STMA
Conferenza	C. Purpura	<i>Material Spectral Emissivity Evaluation by Dual-Colour Pyrometer</i>	"IEEE 2020-7th International Workshop on Metrology for AeroSpace" MetroAeroSpace conf., June 22-24, 2020	2020	<a href="#">INPP-0040-CIRA-DTS-20-1558</a>	29/06/2020	INPP

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Rivista	A. Riccio, S. Saputo, A. Sellitto, F. Di Caprio, L. Di Palma	<i>A numerical-experimental assessment on a composite fuselage barrel vertical drop test: Induced damage onset and evolution</i>	"Composite Structures" 248 (2020) 112519 <a href="https://doi.org/10.1016/j.compstruct.2020.112519">https://doi.org/10.1016/j.compstruct.2020.112519</a>	2020	<a href="#">PADI-0020-CIRA-DTS-20-1560</a>	26/06/2020	PADI
Rivista	M. Ciminello, S. Ameduri, F. Romano, A. Concilio	<i>Impact area and debonding line detection assessment by cross-correlation analysis and distributed sensing</i>	"Journal of Optical Fiber Technology" vol. 58, September 2020, 102245 <a href="https://doi.org/10.1016/j.yofte.2020.102245">https://doi.org/10.1016/j.yofte.2020.102245</a>	2020	<a href="#">SMAF-0027-CIRA-DTS-20-1344</a>	05/06/2020	SMAF
Rivista	A. Fedele, R. Gardi, G. Pezzella	<i>Aerothermodynamics and Thermal design for on-ground and in-flight testing of a deployable heat shield capsule</i>	"CEAS Space Journal" 12, 411–428 (2020) <a href="https://doi.org/10.1007/s12567-020-00312-w">https://doi.org/10.1007/s12567-020-00312-w</a>	2020	<a href="#">INSS-0008-CIRA-DTS-20-0766</a>	04/06/2020	INSS
Conferenza	F. Corrado, G. Corrado, G. Cuciniello, L. Garbarino	<i>A Detect and Avoid Concept for Safely Managing Multiple Hazards in Remotely Piloted Aircraft Systems</i>	"IEEE -7th International Conference on Control, Decision and Information Technologies" (CoDIT'20), June 29 - July 2, 2020 <a href="https://doi.org/10.1109/CoDIT49905.2020.9263864">https://doi.org/10.1109/CoDIT49905.2020.9263864</a>	2020	<a href="#">TECV-0010-CIRA-DTS-20-1278</a>	28/05/2020	TECV

Tipo pubblicazione	Autori Pubblicazione	Titolo Pubblicazione	Congresso - Libro - Rivista - Altro	Anno	Rif. Documentale	Data Rif. Doc.le	Archivio
Rivista	F. Bonfante, P. Maggiore, F. Grimaccia, E. Filippone, M. D. L. Dalla Vedova	<i>Full integration of light RPAS into not segregated airspace: preliminary safety analysis for the implementation of a risk model</i>	"Intern.Review of Aerospace Engineering" IREASE 13, No 5 (2020)	2020	<a href="#">SBAT-0030-CIRA-DTS-20-1240</a>	27/05/2020	SBAT
Rivista	D. Darsena, G. Gelli, I. Iudice, F. Verde	<i>Design and performance analysis of channel estimators under pilot spoofing attacks in multiple-antenna systems</i>	"IEEE Transactions on Information Forensics and Security", vol. 15, pp. 3255-3269, 2020, DOI: 10.1109/TIFS.2020.2985548. <a href="https://doi.org/10.1109/TIFS.2020.2985548">https://doi.org/10.1109/TIFS.2020.2985548</a>	2020	<a href="#">TRAD-0003-CIRA-DTS-20-0800</a>	19/05/2020	TRAD
Rivista	M. Cicala, E. D'Amato, I. Notaro, M. Mattei	<i>Scalable Distributed State Estimation in UTM Context</i>	"Sensors" 2020, 20(9), 2682 <a href="https://doi.org/10.3390/s20092682">https://doi.org/10.3390/s20092682</a>	2020	<a href="#">SBAT-0027-CIRA-DTS-20-1163</a>	14/05/2020	SBAT
Conferenza	P.Schmollgruber, A.Lepage, F.Bremmers, H.Jentink, N. Genito, A. Rispoli, M.Huhnd, D.Meissner	<i>Towards Validation of Scaled Flight Testing</i>	" Aerospace Europe Conference" – AEC2020, Bordeaux, France 25-28 febbraio 2020	2020	<a href="#">SBAT-0026-CIRA-DTS-20-1140</a>	13/05/2020	SBAT

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Rivista	G. Zazzaro	<i>COSM: Controlled Over-Sampling Method. A Methodological Proposal to Overcome the Class Imbalance Problem in Data Mining</i>	"Transactions on Machine Learning and Artificial Intelligence " Volume 8 No 2, April 2020 <a href="https://doi.org/10.14738/tmlai.82.7925">https://doi.org/10.14738/tmlai.82.7925</a>	2020	<a href="#">SREV-0023-CIRA-DTS-20-1131</a>	12/05/2020	SREV
Rivista	V. Di Vito, P. Mercogliano, M. Montesarchio, A.L. Zollo, M. Ferrucci, G. Torrano, G. Cerasuolo, I. Iudice, R.V. Montaquila	<i>Single-Pilot Flight Support Technologies</i>	"Platinum magazine", 2020 (year 13, number 36) <a href="https://www.calameo.com/read/00332181013d338f98cc4">https://www.calameo.com/read/00332181013d338f98cc4</a>	2020	<a href="#">SOTA-0011-CIRA-DTS-20-1088</a>	06/05/2020	SOTA
Conferenza	R. Scigliano, V. De Simone, M. Marini, P. Roncioni, R. Fusaro, N. Viola	<i>Preliminary Finite Element Thermal Analysis of STRATOFly Hypersonic Vehicle</i>	" 23rd AIAA Int. Space Planes and Hypersonic Systems and Technologies", DOI: 10.2514/6.2020-2422	2020	<a href="#">TRTC-0006-CIRA-DTS-20-0769</a>	06/04/2020	TRTC
Rivista	M. Ferraiuolo, C. Palumbo, A. Sellitto, A. Riccio	<i>Investigating the Thermo-Mechanical Behavior of a Ceramic Matrix Composite Wing Leading Edge by Sub-Modeling Based Numerical Analyses</i>	"Computation" 2020, 8(2), 22 <a href="https://doi.org/10.3390/computation8020022">https://doi.org/10.3390/computation8020022</a>	2020	<a href="#">TRTC-0005-CIRA-DTS-20-0691</a>	06/04/2020	TRTC

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Rivista	A. Riccio, S. Saputo, A. Sellitto, F. Di Caprio	<i>A Numerical Assessment on the Influences of Material Toughness on the Crashworthiness of a Composite Fuselage Barrel</i>	"Applied Sciences" 2020, 10(6), 2019 <a href="https://doi.org/10.3390/app10062019">https://doi.org/10.3390/app10062019</a>	2020	<a href="#">PADI-0016-CIRA-DTS-20-0916</a>	20/04/2020	PADI
Tesi di Dottorato	A. Fedele	<i>A Deployable Aerobraking System for Atmospheric Re-entry</i>	Università degli Studi di Napoli Federico II . Dottorato di Ricerca in Ingegneria Industriale XXXII Ciclo Candidato: ing. Alberto Fedele, coordinatore: ch.mo prof. M. Grassi tutor: prof. R. Savino, Ing. S. Cantoni	2020	<a href="#">INSS-0009-CIRA-DTS-20-0886</a>	19/04/2020	INSS
Rivista	M. Ciminello, N.D. Boffa, A. Concilio, B. Galasso, F. Romano, E. Monaco	<i>Damage Detection of CFRP Stiffened Panels by Using Cross-Correlated Spatially Shifted Distributed Strain Sensors</i>	"Applied Sciences" 2020, 10(8), 2662 <a href="https://doi.org/10.3390/app10082662">https://doi.org/10.3390/app10082662</a>	2020	<a href="#">SMAF-0016-CIRA-DTS-20-0872</a>	15/04/2020	SMAF
Conferenza	V.R. Baraniello, G. Persechino, R. Borsa	<i>Tools for the conceptual design of a stratospheric hybrid platform</i>	"SAE International" Technical Paper 2020-01-0025, 10.03.2020 <a href="https://doi.org/10.4271/2020-01-0025">https://doi.org/10.4271/2020-01-0025</a>	2020	<a href="#">MEBC-0009-CIRA-DTS-20-0494</a>	20/03/2020	MEBC

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Conferenza	<b>B. Sikorski, P. Leoncini, C. Luongo</b>	<i>A Glasses-based Holographic Tabletop for Collaborative Monitoring of Aerial Missions</i>	"AVR 2020" 7th International Conference, Lecce, Italy, Sept. 2020, <a href="https://link.springer.com/chapter/10.1007/978-3-030-58465-8_26">https://link.springer.com/chapter/10.1007/978-3-030-58465-8_26</a>	2020	<a href="#">RIED-0005-CIRA-DTS-20-0473</a>	13/03/2020	RIED
Conferenza	<b>M. Belardo, B. J. Beretta, A. D. Marano, G. Diodati, N. Paletta, M. Graziano, M. Capasso, F. Di Caprio, L. Di Palma</b>	<i>Design strategy of the wing of the Next Generation Civil Tilt-Rotor Technology Demonstrator</i>	"MEDYNA 2020" 3rd Euro-Mediterranean Conference on Structural Dynamics and Vibroacoustics 17-19 February 2020, Napoli	2020	<a href="#">TWIN-0009-CIRA-DTS-20-0353</a>	03/03/2020	TWIN
Conferenza	<b>F. Di Caprio, F. Ciardiello, A. Chiariello, M. Belardo, L. Di Palma</b>	<i>Numerical Investigation on the Wing Crashworthiness under Bird Impact Conditions</i>	"MEDYNA 2020": 3rd Euro-Mediterranean Conference on Structural Dynamics and Vibroacoustics 17-19 February 2020, Napoli (Italy)	2020	<a href="#">TWIN-0010-CIRA-DTS-20-0457</a>	23/03/2020	TWIN
Conferenza	<b>F. Di Caprio, A. Sellitto, S. Saputo, M. Guida, A. Riccio</b>	<i>Crashworthy Design of an Aircraft Wing Leading Edge to Withstand Bird Impact Events</i>	"MEDYNA 2020": 3rd Euro-Mediterranean Conference on Structural Dynamics and Vibroacoustics 17-19 February 2020, Napoli (Italy)	2020	<a href="#">PADI-0011-CIRA-DTS-20-0347</a>	03/03/2020	PADI

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Conferenza	F. Di Caprio, A. Sellitto, S. Saputo, M. Guida, A. Riccio	<i>Dynamic Buckling Investigation of Aircraft Composite Stanchions Subjected to Cyclic Loading Conditions</i>	"MEDYNA 2020": 3rd Euro-Mediterranean Conference on Structural Dynamics and Vibroacoustics 17-19 February 2020, Napoli (Italy)	2020	<a href="#">PADI-0012-CIRA-DTS-20-0349</a>	03/03/2020	PADI
Rivista	R. Sepe, S. Franchitti, R. Borrelli, F. Di Caprio, E. Armentani, F. Caputo	<i>Correlation between real geometry and tensile mechanical behaviour for Ti6Al4V Electron Beam Melted thin specimens</i>	"Theoretical and Applied Fracture Mechanics"107 (2020) 102519 doi <a href="https://doi.org/10.1016/j.tafmec.2020.102519">https://doi.org/10.1016/j.tafmec.2020.102519</a>	2020	<a href="#">PRMM-0010-CIRA-DTS-20-0471</a>	11/03/2020	PRMM
Rivista	R. Borrelli, S. Franchitti, C. Pirozzi, L. Carrino, L. Nele, W. Polini, L. Sorrentino, A. Corrado	<i>Ti6Al4V Parts Produced by Electron Beam Melting: Analysis of Dimensional Accuracy and Surface Roughness</i>	"Journal of Advanced Manufacturing Systems" Vol. 19, No. 1 (2020), pp.107-130 <a href="https://doi.org/10.1142/S0219686720500067">https://doi.org/10.1142/S0219686720500067</a>	2020	<a href="#">PRMM-0009-CIRA-DTS-20-0470</a>	11/03/2020	PRMM
Conferenza	D. Cristillo, F. Di Caprio, C. Pezzella, C. Paciello, M. Belardo, L. Di Palma	<i>Comparison of Numerical Models for the Prediction of Bladder Tank Crashworthiness</i>	"MEDYNA 2020" : 3rd Euro-Mediterranean Conference on Structural Dynamics and Vibroacoustics 17-19 February 2020, Napoli (Italy )	2020	<a href="#">PADI-0013-CIRA-DTS-20-0350</a>	10/03/2020	PADI

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Rivista	D. Peretto, G. Lamanna, M. Manzo, <b>A. Chiariello, F. Di Caprio, L. Di Palma</b>	<i>Numerical and Experimental Investigation on the Energy Absorption Capability of a Full-Scale Composite Fuselage Section</i>	"Key Engineering Materials", Vol. 827, pp 19-24 ISSN: 1662-9795, Vol. 827, pp 19-24 doi:10.4028/www.scientific.net/KEM.827.19	2020	<a href="#">PADI-0009-CIRA-DTS-20-0338</a>	10/03/2020	PADI
Rivista	R. Camussi, A. Di Marco, C. Stoica, M. Bernardini, F. Stella, <b>F. De Gregorio</b> , F. Paglia, L. Romano, D. Barbagallo	<i>Wind tunnel measurements of the surface pressure fluctuations on the new VEGA-C space launcher</i>	"Aerospace Science and Technology" 99 (2020) 105772 <a href="https://doi.org/10.1016/j.ast.2020.105772">https://doi.org/10.1016/j.ast.2020.105772</a>	2020	<a href="#">VECP-0002-CIRA-DTS-20-0322</a>	18/02/2020	VECP
Rivista	<b>G. Ceglia, F. De Gregorio</b>	<i>Flow Characterization of Heavy-Lift Helicopter Rear Fuselage with Pulsed Jets for Separation Control</i>	"AIAA Journal" 12 Jan 2020 02058:4, pp. 1458–1475 <a href="https://doi.org/10.2514/1.J058066">https://doi.org/10.2514/1.J058066</a>	2020	<a href="#">PGRC-0001-CIRA-DTS-20-0085</a>	21/01/2020	PGRC
Rivista	<b>A. Vigliotti</b> , F. Auricchio	<i>Automatic Differentiation for Solid Mechanics</i>	"Archives of Computational Methods in Engineering" 8, 875–895 (2021). <a href="https://doi.org/10.1007/s11831-019-09396-y">https://doi.org/10.1007/s11831-019-09396-y</a>	2020	<a href="#">STMA-0011-CIRA-DTS-20-0154</a>	23/01/2020	STMA



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Rivista	F. Piscitelli, A. Chiariello, D. Dabkowski, G. Corrado, F. Marra, L. Di Palma	<i>Superhydrophobic Coatings as Anti-Icing Systems for Small Aircraft</i>	Aerospace 2020, 7(1), 2; 9th EASN Conf. DOI. <a href="https://doi.org/10.3390/aerospace7010002">https://doi.org/10.3390/aerospace7010002</a>	2020	<a href="#">STMA-0005-CIRA-DTS-20-0060</a>	21/01/2020	STMA
Conferenza	M. Ferraiuolo, C. Palumbo, A. Sellitto, A. Riccio	<i>Global/local finite element analyses supporting the design of a ceramic matrix composite wing leading edge of a re-entry vehicle</i>	Materials Today: Proceedings Volume 34, Part 1, 2021, Pages 31-35 .Proc. of 12th Int. Conference on Composite Science and Technology <a href="https://doi.org/10.1016/j.matpr.2019.12.124">https://doi.org/10.1016/j.matpr.2019.12.124</a>	2020	<a href="#">TRTC-0001-CIRA-DTS-20-0009</a>	10/01/2020	TRTC
Conferenza	B. Mele, R. Tognaccini, P. Catalano, D. de Rosa	<i>Analysis of riblets performance in pressure gradient flow by Large Eddy Simulation</i>	AIAA SciTech 2020 Forum conf. Proc. Orlando, Florida, Jan 6 - 10, 2020	2020	<a href="#">MOFL-0001-CIRA-DTS-20-0011</a>	08/01/2020	MOFL