

Ph. D thesis:

- “Numerical Simulation of the Unsteady Aerodynamics of Flapping Flight,” University of Genoa, 2009. For a digital copy, please refer to <http://www3.dicca.unige.it/guerrero/pubs/myphdthesis.html>

Webpage:

- http://www.dicat.unige.it/guerrero/index_clean.html

Peer-Reviewed Journal Articles:

- C. Caccia, G. Bailardi, **J. Guerrero**, D. Marini, “Fluid Structure Interaction in Marine Applications Using Open-Source Tools,” *Technology and Science for the Ships of the Future. Proceedings of NAV 2022: 20th International Conference on Ship & Maritime Research. Progress in Marine Science and Technology*, Volume 6, pp. 486-493, Sep. 2022. <https://doi.org/10.3233/PMST220058>
- **J. Guerrero**, “Pressurized turbulent premixed CH₄/H₂/air flame validation using OpenFOAM,” *AIP Advances* 12, 075103 (2022); <https://doi.org/10.1063/5.0098715>
- M. Cavaiola, S. Olivieri, **J. Guerrero**, A. Mazzino, M. E. Rosti, “Role of barriers in the airborne spread of virus-containing droplets: A study based on high-resolution direct numerical simulations,” *Physics of Fluids* 34, 015104, 2022. <https://doi.org/10.1063/5.0072840>
- H. Kutkan, **J. Guerrero**, “Turbulent Premixed Flame Modeling Using the Algebraic Flame Surface Wrinkling Model: A Comparative Study between OpenFOAM and Ansys Fluent,” *Fluids*, 6(12), 462, Dec. 2021. <https://doi.org/10.3390/fluids6120462>
- E. Alinovi, **J. Guerrero**, “FLUBIO – An unstructured, parallel, finite-volume based Navier-Stokes and convection-diffusion like equations solver for teaching and research purposes,” *SoftwareX*, Volume 13, January 2021, 100655. <https://doi.org/10.1016/j.softx.2020.100655>
- **J. Guerrero**, M. Sanguineti, K. Wittkowski, “Variable cant angle winglets for improvement of aircraft flight performance,” *Meccanica*, Sep. 2020. <https://doi.org/10.1007/s11012-020-01230-1>
- **J. Guerrero**, L. Mantelli, S. Naqvi, “Cloud based CAD parametrization for design space exploration and design optimization in CFD,” *Fluids*, 5(1), 36, Mar. 2020. <https://doi.org/10.3390/fluids5010036>
- E. Daymo, A. Tonkovich, M. Hettel, **J. Guerrero**, “Accelerating Reactor Development with Accessible Simulation and Automated Optimization Tools,” *Chemical Engineering & Processing – Process Intensification Journal*, vol. 142, 107582, Aug. 2019. <https://doi.org/10.1016/j.cep.2019.107582>
- A. Oleksiak, L. Lefevre, P. Alonso, G. Da Costa, V. De Maio, N. Frasherri, V. M. Garcia, **J. Guerrero**, S. Lafond, A. Lastovetsky, R. Reddy Manumachu, B. Muite, A.-C. Orgerie, W. Piatek, J.-M. Pierson, R. Prodan, P. Stolf, E. SHEME, S. Varrette, “Energy aware ultrascale systems,” *Ultrascale Computing Systems*. Chapter 5, pp. 127-188, Jan. 2019. https://doi.org/10.1049/PBPC024E_ch5
- **J. Guerrero**, M. Sanguineti, K. Wittkowski, “CFD study of the impact of variable cant angle winglets on total drag reduction,” *Aerospace Journal - Special issue on Bio-Inspired Aerospace Systems*, 5(4), 126, Sep. 2018. <https://doi.org/10.3390/aerospace5040126>
- F. Aqilah, M. Islam, F. Juretic, **J. Guerrero**, D. Wood, F. Ani, “Study of mesh quality improvement for CFD analysis of an airfoil,” *IIUM Engineering Journal*, vol. 19, no. 2, pp. 203-212, Dec. 2018. <https://doi.org/10.31436/iiumej.v19i2.905>
- **J. Guerrero**, A. Cominetti, J. Pralits, D. Villa, “Surrogate-based optimization using an open-source framework: the bulbous bow shape optimization case,” *Mathematical and computational applications*, 23(4), 60, Oct. 2018. <https://doi.org/10.3390/mca23040060>
- **J. Guerrero**, “Wake topology and aerodynamic performance of heaving wings,” *Flight Physics – Models, Techniques and Technologies*, IntechOpen, Chapter 7, Dec. 2017. <http://dx.doi.org/10.5772/intechopen.71517>
- **J. Guerrero**, C. Pacioselli, J. O. Pralits, F. Negrello, P. Silvestri, A. Lucifredi, A. Bottaro, “Erratum to: Preliminary design of a small-sized flapping UAV: I. Aerodynamic performance and static longitudinal stability,” *Meccanica* 52 (9), pp. 2245-2245, Jul. 2017. <https://doi.org/10.1007/s11012-016-0571-3>
- F. Negrello, P. Silvestri, A. Lucifredi, **J. Guerrero**, A. Bottaro, “Preliminary design of a small-sized flapping UAV. II. Kinematic and structural aspects,” *Meccanica*, 51(6), pp. 1369-1385, Jun. 2016. <https://doi.org/10.1007/s11012-015-0309-7>

- **J. Guerrero**, C. Pacioselli, J. O. Pralits, F. Negrello, P. Silvestri, A. Lucifredi, A. Bottaro, “Preliminary design of a small-sized flapping UAV. I. Aerodynamic performance and static longitudinal stability,” *Meccanica* 51 (6), pp. 1343-1367, Jun. 2016. <https://doi.org/10.1007/s11012-015-0298-6>
- A. Orchini, A. Mazzino, **J. Guerrero**, R. Festa, C. Boragno, “Flapping States of an Elastically Anchored Plate in a Uniform Flow with Applications to Energy Harvesting by Fluid-Structure Interaction,” *Physics of Fluids*, 25, 097105, 2013. <https://doi.org/10.1063/1.4821808>
- **J. Guerrero**, D. Maestro, A. Bottaro, “Biomimetic Spiroid Winglets for Lift and Drag Control,” *Comptes Rendus Mécanique*, vol. 340, Issues 1-2, pp. 67-80, Jan.-Feb. 2011. <https://doi.org/10.1016/j.crme.2011.11.007>
- **J. Guerrero**, “Wake Signature of Finite-Span Flapping Rigid Wings,” *High-Performance Computing in Science and Engineering '10: Transactions of High-Performance Computing Center, Stuttgart (HLRS) 2010*, pp. 407-427, 2011. https://doi.org/10.1007/978-3-642-15748-6_31
- **J. Guerrero**, “Wake Signature and Strouhal Number Dependence of Finite-Span Root Flapping Rigid Wings,” *Journal of Bionic Engineering*, vol. 7, Supplement 4, pp. S109-S122, Dec. 2010. [https://doi.org/10.1016/S1672-6529\(09\)60224-9](https://doi.org/10.1016/S1672-6529(09)60224-9)
- **J. Guerrero**, “Aerodynamic Performance of Cambered Heaving Airfoils,” *AIAA Journal*, vol. 48, no. 11, pp. 2694-2698, Nov. 2010. <https://doi.org/10.2514/1.J050036>
- **J. Guerrero**, “Effect of Cambering on the Aerodynamic Performance of Heaving Airfoils,” *Journal of Bionic Engineering*, vol. 6, Issue 4, pp. 398-407, Dec. 2009. [https://doi.org/10.1016/S1672-6529\(08\)60134-1](https://doi.org/10.1016/S1672-6529(08)60134-1)

Articles Submitted, Under Review or In Preparation:

- P. Silvestri, A. Canepa, **J. Guerrero**, “Design of a mechanism for roll damping and stabilization of yachts at anchor: hydrodynamic, kinematic design and structural study,” under review, submitted to the *Journal of Marine Science and Technology*.

Research Highlights, Media Appearances and Book Contributions:

- M. Cavaiola, S. Olivieri, **J. Guerrero**, A. Mazzino, M. E. Rosti, “Direct numerical simulations show deficiencies in barriers against airborne viral spread,” *AIP Scilight*, 07 January 2022. <https://doi.org/10.1063/10.0009041>
- M. Giachi, **J. Guerrero**, J. Pralits, “La CFD come strumento predittivo in ambito sportivo per definire i regolamenti tecnici del futuro” (CFD as a predictive tool in the sports field to define the technical requirements of the future), *A & C Analisi e Calcolo* (Italian magazine), No. 96, cover page and pp. 10-11, Jan-Feb. 2020.
- A. Bottaro, **J. Guerrero**, J. Pralits, “Modelli matematici per soluzioni innovative” (Mathematical models for innovative solutions), *Il sole 24 ore* (Italian newspaper), Sanita & Ricerca, p. 1, June 26, 2017.
- **J. Guerrero**, “Box approfondimento 14.1 CFD: esperimenti al computer (Technical box 14.1 CFD: computational experiments), *Meccanica dei fluidi III edizione* (Fluid Mechanics III edition in Italian). McGraw Hill 2015. ISBN: 9788838615153.
- **J. Guerrero**, D. Maestro, “Biomimetic Spiroid Winglets for Lift and Drag control,” *HPC-Europa2. Science and supercomputing in Europe. Research Highlights 2011*.
- **J. Guerrero**, “Wake Signature and Aerodynamic Performance of Finite-Span Root Flapping Rigid Wings,” *HPC-Europa2. Science and Supercomputing in Europe. Research Highlights 2009*.
- A. Bottaro, J. Favier, **J. Guerrero**, D. Venkataraman, H. Wedin, “Sulla Scia di Icaro” (In the wake of Icaro), *Sapere* (Italian magazine), anno 75, numero 5(1064), pp. 66-77, Oct. 2009. <https://hal.archives-ouvertes.fr/hal-01073987>

Other Publications (non peer reviewed):

- **J. Guerrero**, “OpenFOAM advanced training. Turbulence modeling in general CFD and OpenFOAM - Theory and applications,” *figshare. Media*, 2022. <https://doi.org/10.6084/m9.figshare.19310162>
- **J. Guerrero**, “OpenFOAM advanced training. Multi-phase flows modeling in general CFD and OpenFOAM - Theory and applications,” *figshare. Media*, 2022. <https://doi.org/10.6084/m9.figshare.19310483>

- **J. Guerrero**, “OpenFOAM advanced training. Moving meshes, rigid body motion, adaptive mesh refinement, and overset meshes,” figshare. Media, 2022.
<https://doi.org/10.6084/m9.figshare.19310492>
- **J. Guerrero**, “DAKOTA-OpenFOAM advanced training. Design of experiments, space exploration, and numerical optimization using Dakota and code coupling Dakota-OpenFOAM,” figshare. Media, 2022.
<https://doi.org/10.6084/m9.figshare.19310495>
- **J. Guerrero**, “OpenFOAM advanced training. Basic solid modeling for CFD using Onshape and mesh generation using OpenFOAM tools,” figshare. Media, 2022.
<https://doi.org/10.6084/m9.figshare.19309760>
- **J. Guerrero**, “OpenFOAM advanced training. Introduction to the FVM method. Standard practices in general CFD with applications to OpenFOAM,” figshare. Media, 2022.
<https://doi.org/10.6084/m9.figshare.19308740>
- **J. Guerrero**, “OpenFOAM Introductory Training,” figshare. Media, 2021.
<https://doi.org/10.6084/m9.figshare.16783657>
- **J. Guerrero**, “Cloud-based CAD parametrization and image recognition for engineering design work-flows based on OpenFOAM,” Wolf Dynamics White Paper 2021-1. January 2021.
- **J. Guerrero**, L. Mantelli, S. Naqvi, “Cloud-Based Parametrization for Design Space Exploration and Design Optimization in Numerical Simulations,” Preprints 2020, 2020030150 (doi: 10.20944/preprints202003.0150.v1).
- **J. Guerrero**. “Introduction to Computational Fluid Dynamics: Governing Equations, Turbulence Modeling Introduction, and Finite Volume Discretization Basics,” (doi: 10.13140/RG.2.1.1396.4644).
- **J. Guerrero**, M. Sanguineti, K. Wittkowski, “Variable cant angle winglets for improvement of aircraft flight performance,” Preprints 2019, 2019070001 (doi: 10.20944/preprints201907.0001.v1).
- **J. Guerrero**, B. K. Muite. “Optimizing Heat Transfer in a Liquid Cooled Computer: Conduction,” COST (European Cooperation in Science and Technology) Short-Term Scientific Mission (STSM) Technical Report. 2015.
- A. Orchini, A. Mazzino, **J. Guerrero**, R. Festa, C. Boragno. “Flapping States of an Elastically Anchored Wing in a Uniform Flow,” arXiv preprint, arXiv:1202.5390v1 [physics.flu-dyn]. Feb. 2012.

Peer Reviewed Conference Contributions:

- E. Segalerba, J. Pralits, M. Quadrio, **J. Guerrero**, “Comparison of Nasal Anatomies Using Computational Fluid Dynamics,” 17th OpenFOAM workshop. Churchill College, University of Cambridge, Cambridge, UK. July 11-14, 2022.
- C. Caccia, G. Bailardi, **J. Guerrero**, D. Marini, “Fluid Structure Interaction in Marine Applications Using Open-Source Tools,” 20th International Conference on Ship and Maritime Research. University of Genoa, Genoa, Italy. June 15-17, 2022.
- **J. Guerrero**, E. Alinovi, “A Benchmarking and Comparative Study of Different Linear Solvers and Preconditioners in OpenFOAM, PETSC, and FLUBIO-PETSC,” 16th OpenFOAM workshop. University College Dublin, Dublin, Ireland. June 8-11, 2021 (online).
- **J. Guerrero**, L. Mantelli, S. Naqvi, “Cloud-Based Cad Parametrization and Image Recognition For Support of Engineering Design Using Numerical Simulations,” 15th OpenFOAM workshop. Virginia Tech, Arlington, Virginia, USA. June 22-26, 2020 (online).
- **J. Guerrero**, “A comparative assessment and benchmarking study of OpenFOAM® overset meshes capabilities,” 7th OpenFOAM conference. Berlin, Germany. October 15-17, 2019.
- E. Daymo, **J. Guerrero**, M. Hettel, “Accelerating microreactor development with accessible simulations,” International conference on micro reaction technology (IMRET 2018). Karlsruhe, Germany. October 21-24, 2018. Poster presentation.
- **J. Guerrero**, A. Cominetti, J. Pralits, “Shape optimization using an open-source framework: the bulbous bow case,” 5th OpenFOAM conference. Frankfurt, Germany. October 17-19, 2017.
- A. Cominetti, **J. Guerrero**, J. Pralits, “Shape optimization using an open-source framework: the bulbous bow case,” 12th OpenFOAM workshop. University of Exeter, Exeter. UK. July 24-27, 2017.
- M. Islam, F. Aqilah, F. Juretic, **J. Guerrero**, D. Wood, F. Nasir Ani, “Study of mesh quality improvement for CFD analysis of an airfoil,” The 9th International Meeting on Advances in Thermofluids IMAT. UTM, Johor, Malaysia. January 25, 2017.
- **J. Guerrero**, G. Bailardi, H. Kifle, “Visual storytelling and data visualization in numerical simulations,” 11th OpenFOAM workshop. Guimaraes, Portugal. June 26-28, 2016.

- **J. Guerrero**, B. K. Muite, “Optimizing cooling in liquid cooled computers: conduction in the rugged POD,” Summer School on Transport, Fluids and Mixing. Levico Terme, Trento. Italy. July 19-25, 2015. Poster presentation.
- **J. Guerrero**, G. Bailardi, H. Telib, R. Lyulinetsky, “An open-source framework for multi-physics simulations, design space exploration and design optimization,” 10th OpenFOAM workshop. Ann Arbor, MI. USA. June 29 - July 1, 2015.
- G. Bailardi, **J. Guerrero**, “An open-source framework for CFD optimization: the case of sailing yacht daggerboards,” 18th International conference on ships and shipping research – NAV. Lecco, Italy. June 24-26, 2015.
- G. Bailardi, **J. Guerrero**, D. Natali, “On the fluid dynamic design and optimization of sailing yacht hulls and appendages using a complete open-source framework,” VI International conference on computational methods in marine engineering – MARINE. Rome, Italy. June 14-16, 2015.
- A. Di Terlizzi, A. Lucifredi, P. Silvestri, A. Canepa, **J. Guerrero**, A. Bottaro. “Kinematic and structural proposal and study of a new mechanism for the stabilization of yachts at anchor by flying fins,” The Twelfth International Conference on Condition Monitoring and Machinery Failure Prevention Technologies. CM 2015/MFPT 2015. Oxford, UK. June 9-11, 2015.
- M. Islam, F. Langfeldt, F. Juretic, **J. Guerrero**, D. H. Wood, “CFD Analysis of NACA4415 Airfoil with Gamma-Re-theta Model considering Natural Transition,” North American Wind Energy Academy (NAWEA) 2015 Symposium. Virginia Tech. Blacksburg, Virginia, USA. June 9-11, 2015.
- J. M. Nobrega, A. Rajkumar, C. Fernandes, L. L. Ferras, F. Habla, O. Hinrichsen, **J. Guerrero**, O. S. Carneiro, “Using OpenFOAM to Aid the Design of Extrusion Dies for Thermoplastics Profiles,” 9th OpenFOAM workshop. Zagreb, Croatia. June 23-26, 2014.
- F. Negrello, P. Silvestri, A. Lucifredi, **J. Guerrero**, A. Bottaro, “Preliminary Design of a Mechanism for Flapping Flight – Durability Analysis and Vibration Modes,” The Eleventh International Conference on Condition Monitoring and Machinery Failure Prevention Technologies. Manchester, UK. June 10-12, 2014.
- **J. Guerrero**, C. Pacioselli, J. Pralits, F. Negrello, P. Silvestri, A. Bottaro, “Preliminary design of a Small-Sized Flapping UAV. II. Aerodynamic Performance and Flight Stability,” AIMETA Conference. Turin, Italy. September 17-20, 2013.
- F. Negrello, P. Silvestri, A. Lucifredi, **J. Guerrero**, A. Bottaro, “Preliminary design of a Small-Sized Flapping UAV. I. Kinematic and Structural Aspects,” AIMETA Conference. Turin, Italy. September 17-20, 2013.
- **J. Guerrero**, “Wake Signature and Strouhal Number Dependence of Finite-Span Flapping Wings,” International Conference of Bionic Engineering ICBE. Zhuhai, China. September 14-16, 2010.
- **J. Guerrero**, “Wake Signature and Strouhal Number Dependence of Finite-Span Flapping Wings,” Transnational Access Meeting (TAM 2010) HPC-Europa2. CSC-HPC-Europa2, Helsinki, Finland. June 15-17, 2010.
- **J. Guerrero**, “Higher-Order Godunov Schemes on Overlapping Grids,” Third International Conference on High Order Non-Oscillatory Methods for Wave Propagation: Algorithms and Applications. University of Trento, Italy. March 30 - April 02, 2009.
- **J. Guerrero**, “Numerical Simulation of the Unsteady Aerodynamics of Flapping Flight,” 10th Teraflopp Workshop. Applications and systems for future HPC. HLRS, Universität Stuttgart, Germany. March 16-17, 2009.
- **J. Guerrero**, “Higher-Order Godunov Schemes on Overlapping Grids with Adaptive Mesh Refinement,” 5th Transnational Access Meeting (TAM'08) HPC-Europa++. HLRS, Universität Stuttgart, Germany. December 15-18, 2008.
- **J. Guerrero**, “Algebraic Multigrid Methods on Overlapping Grids,” MASCOT08 - 8th Meeting on Applied Scientific Computing and Tools, Grid Generation, Approximation and Visualization. CNR-IAC, Rome, Italy. October 23-25, 2008.
- **J. Guerrero**, “CFD Study of Biologically Inspired Flapping/Oscillating Foils in Forward Motion,” 1st Peer Training Meeting on Applied Scientific Computing and Tools. CNR-IAC, Rome, Italy. October 21-22, 2008.
- **J. Guerrero**, “Efficient Treatment of Complex Geometries and Moving Bodies using Single-Block and Multi-Block Overlapping Grids,” Numerical geometry, grid generation and scientific computing (NUMGRID2008). A.A. Dorodnicyn Computing Center of the Russian Academy of Sciences, Moscow, Russia. June 10-13, 2008.
- **J. Guerrero**, “Efficient Treatment of Complex Geometries and Moving Bodies Using Overlapping Grids,” The 10th International Society of Grid Generation (ISGG) Conference on Numerical Grid Generation. IMACS – ISGG. Crete, Greece. September 16-20, 2007.
- **J. Guerrero**, “Higher-Order Godunov Schemes on Overlapping Grids,” MASCOT07 - 7th Meeting on Applied Scientific Computing and Tools, Grid Generation, Approximation and Visualization. CNR-IAC, Rome, Italy. September 13-14, 2007.

- **J. Guerrero**, “Overset Composite Grids for the Simulation of Complex Moving Geometries,” MASCOT06 - 6th Meeting on Applied Scientific Computing and Tools, Grid Generation, Approximation and Visualization. CNR-IAC, Rome, Italy. October 05-07, 2006.
- **J. Guerrero**, “Overset Composite Grids/Chimera Meshes in a Brief,” EUA4X Computational Field Simulation Days @ MASCOT06. CNR-IAC, Rome, Italy. October 06-07, 2006. Poster presentation.

Invited speaker – Non Peer Reviewed contributions – Conferences:

- **J. Guerrero**, “FDA Blood Pump case. A validation benchmark for the next OpenFOAM workshop,” First Italian OpenFOAM User Group Meeting. Politecnico di Milano, Milan, USA. October 19, 2022.
- **J. Guerrero**, Luca Mantelli, Sahrish Naqvi, “Cloud-based CAD parametrization for engineering design workflows in OpenFOAM,” Fourth Midwest OpenFOAM User Group Meeting. Minneapolis, Minnesota, USA. October 4-5, 2019 (online).
- **J. Guerrero** (invited speaker), “Opportunities and challenges in CFD optimization: Open-Source technology and the Cloud,” The sixth symposium on OpenFOAM® in Wind Energy (SOWE). Gotland, Sweden. June 13-14, 2018.
- **J. Guerrero** (invited speaker), “Agile simulations in the era of cloud computing,” HPC Day. I trend, le architetture, gli applicativi e i nuovi servizi disponibili per l'elaborazione dati ad alte prestazioni (Trends, architectures, applications and new services available for data processing and high performance). Lerici, Italy. September 26, 2017.
- **J. Guerrero** (invited speaker), “Agile simulations in the era of cloud computing,” Workshop in HPC Methods for Engineering. CINECA. Milan, Italy. June 19-21, 2017.
- **J. Guerrero**, H. Telib, “Design optimization and design exploration using an open-source framework on HPC facilities,” Workshop in HPC Methods for Engineering. CINECA. Milan, Italy. June 17-19, 2015.
- **J. Guerrero**, G. Bailardi, “An Open-Source Framework for Multi-Physics Simulations and Optimization,” Workshop in HPC enabling of OpenFOAM for CFD applications. Bologna, Italy. March 25-27, 2015.

Training sessions delivered at conferences:

- **J. Guerrero**, “Optimization methods in CFD - An open-source approach using DAKOTA and OpenFOAM,” training session delivered at the 16th OpenFOAM workshop. University College Dublin, Dublin, Ireland. June 8-11, 2021 (online).
- **J. Guerrero**, “A Crash Introduction to the Finite Volume Method and Discretization Schemes in OpenFOAM,” training session delivered at the 15th OpenFOAM workshop. Virginia Tech, Arlington, Virginia, USA. June 22-26, 2020 (online).
- **J. Guerrero**, “The grammar of overset meshes in OpenFOAM®,” Fourth Midwest OpenFOAM User Group Meeting. Minneapolis, Minnesota, USA. October 4-5, 2019 (online).
- **J. Guerrero**, “Design of experiments, space exploration, and numerical optimization using DAKOTA and OpenFOAM®,” training session delivered at the 11th OpenFOAM workshop. University of Minho, Guimaraes, Portugal. June 26-28, 2016.

Seminars delivered:

- **J. Guerrero**, “Numerical simulations in biofluid dynamics and biomedical engineering. Eye, Nose, and Blood pump applications,” LMFA Laboratoire de Mecanique des Fluides et d'Acoustique, University of Lyon, Lyon, France. July 8, 2022. <http://lmfa.ec-lyon.fr/spip.php?article2069&lang=fr>
- **J. Guerrero**, E. Alinovi, “FLUBIO-PETSC. Yet another CFD solver – In turbulent times –,” Computational Rheology Kaizen Meetings. University of Minho, Guimaraes, Portugal. March 11, 2021 (online).
- **J. Guerrero**, “A Crash Introduction to the Finite Volume Method and Discretization Schemes in OpenFOAM,” Computational Rheology Kaizen Meetings. University of Minho, Guimaraes, Portugal. June 19, 2020 (online).

- **J. Guerrero**, “Visual storytelling and data visualization in numerical simulations,” University of Genoa. Department of Civil, Chemical, and Environmental Engineering. Genoa, Italy. December 11, 2015.
- **J. Guerrero**, “An open-source framework for multi-physics simulations and design exploration/optimization,” University of Tartu. Institute of Computer Science. Tartu, Estonia. May 20, 2015.
- **J. Guerrero**, “An open-source framework for multi-physics simulations and design exploration/optimization,” Tallinn University of Technology. Mechanical Engineering Department. Tallinn, Estonia. May 22, 2015.