Dr. Artem Korobenko
Associate Professor, Associate Head for Research
Department of Mechanical and Manufacturing Engineering, University of Calgary
Co-Director, University of Calgary Aerospace Network (UCAN)
President, Canadian Association for Computational Science and Engineering (CACSE)
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Academic Experience

2021 – present	University of Calgary, Calgary, Alberta, Canada Associate Professor and Associate Head for Research, Department of Mechanical and Manufacturing Engineering
2021 – present	University of Calgary, Calgary, Alberta, Canada Co-founder and Director of Aerospace Engineering Minor, Schulich School of Engineering
2021 – present	University of Calgary, Calgary, Alberta, Canada Co-Founder and Co-Director of the University of Calgary Aerospace Network
2016 – 2021	University of Calgary, Calgary, Alberta, Canada Assistant Professor, Department of Mechanical and Manufacturing Engineering
2015 – 2016	University of California, San Diego, La Jolla, CA, USA Postdoctoral Researcher, Structural Engineering Department

Education

2011 - 2014	University of California, San Diego, La Jolla, CA, USA Ph.D., Structural Engineering Department/Computational Science, Mathematics and Engineering Program (CSME)
2009 – 2011	Clemson University, Clemson, SC, USA M.Sc., Mechanical Engineering Department
2004 - 2009	National Aerospace University “Kharkov Aviation Institute”, Kharkov, Ukraine B.Eng., Department of Aircraft Engines, Graduation with honors

Selected Awards

2025	Schulich School of Engineering Graduate Supervision Excellence Award
2024	J. Tinsley Oden Faculty Fellowship for Visiting Researchers
2024	Schulich Research Chair
2024	Nominee for IACM John Argyris Award for Young Scientists
2022-2023	Alexander von Humboldt Research Fellowship for Experienced Researchers
2021, 2020	Schulich School of Engineering Faculty Fellowship (x2)
2020	Schulich School of Engineering Departmental Research Excellence Award
2019, 2017	Schulich School of Engineering Research Achievement Award (x2)
2018	Schulich School of Engineering Teaching Achievement Award
2018	Teaching Excellence Award from Engineering Student Society

2016	Nominee for 2016 UCSD Chancellor’s Postdoctoral Scholar Award
2015	Nominee for 2015 UCSD Chancellor’s Dissertation Medal
2009 - 2011	Fulbright Graduate Student Fellowship

Professional Service

Member of: American Institute of Aeronautics and Astronautics (AIAA), Canadian Aeronautics and Space Institute (CASI), Engineering Mechanics Institute (EMI), US Association for Computational Mechanics (USACM), International Association for Computational Mechanics (IACM), American Society of Mechanical Engineers (ASME), Canadian Association for Computational Science and Engineering (CACSE)

2025 - present	President of the Canadian Association for Computational Science and Engineering
2023 - 2024	Vice President of the Canadian Association for Computational Science and Engineering
2021 - 2022	Co-founder and Treasurer of the Canadian Association for Computational Science and Engineering
2020 - present	Member-at-Large of TTA on CFD and FSI, USACM
2016-2020	Vice-chair (until 2018) and Chair for Committee on Fluid-Structure Interaction (CFSI) of the Applied Mechanics Division (AMD) of ASME
2016-present	Member of Computational Mechanics TC at EMI
2012-present	Scientific expert for Fulbright Graduate Student Program

Journal Referee

Editor for Special Issue in Eng. with Computers, Intl. J. of Num. Methods for Heat and Fluid Flow, Ocean Engineering, J. of Fluids and Structures, Appl. Sciences, ASME J. of Appl. Mech., Computational Mech., Computer Methods in Appl. Mech. and Eng., Computers & Fluids, Energies, Experimental Techniques, Math. Models and Methods in Appl. Science, Wind Energy, J. of Wind Engineering & Industrial Aerodynamics, Computers & Math. with Applications, J. of Computational Science, Mech. Research Communications, AIAA Journal, J. of Computational Physics

External Reviewer

NSERC Alliance Grant, NSERC Discovery Grant, Compute Canada Resource Allocation Competitions, France-Canada Research Funds, Research Grant Council of Hong-Kong, Mitacs Accelerate, Army Research Office (ARO) Mathematical Sciences Division, National Science Centre of Poland, Czech Science Foundation, Ministry of Science and Technology Chile, Dutch Research Council.

Supervision and Mentorship

Postdoctoral Researcher (2)

2020-2024	Arianna Forneris	co-supervisor
2022-2023	Ahmed Bayram	main supervisor

PhD Students (10)

2025-present	Clayton Gao	main supervisor

2024-2025	Vincenzo Morici (*Mitacs Globalink Research Student from Sapienza University of Rome*)	main supervisor
2023-present	Aabhushan Regmi	main supervisor
2021-present	Sujal Dave	main supervisor
2018-2023	David Codoni	main supervisor
2018-2022	Ahmed Bayram	main supervisor
2022-present	Pak Hin Lo	co-supervisor
2022-present	Adrian Garcia	co-supervisor
2019-present	Derek Lastiwka	co-supervisor
2018-2022	Haoyang Cen	co-supervisor

MSc Students (16)

2025-present	Daniel Cha	main supervisor
2025-present	Ryley Chiasson	main supervisor
2025-present	Marcus Zamzow	main supervisor
2025-present	Jared Crebo	main supervisor
2023-present	Rahul Verma	main supervisor
2022-2024	Vadym Shevtsov	main supervisor
2022-2023	Maryknoll Dsouza	main supervisor
2020-2021	Justin Carron	main supervisor
2020-2022	Musaddik Dhalwala	main supervisor
2018-2020	Carlos Forigua Rodriguez	main supervisor
2017-2019	Michael Ravensbergen	main supervisor
2025-present	Nikolas Daskalopoulos	co-supervisor
2024-present	Mahmoud Mahfouz	co-supervisor
2021-2024	Tyson Migadel	co-supervisor
2019-present	Mohammad Hameed	co-supervisor
2018-2021	Henry Helmut Stoldt	co-supervisor

Undergraduate Students (excluding capstone projects)

2025	Manal Chaudhry, Summer research student (NSERC USRI award)
2025	Ciara Browne, Summer research student (NSERC USRI award)
2024	Hannah Blakeley, Summer research student (PURE award)
2024	Lucas Miller, Summer research student (SSE award)
2024	Mathias Bathe, Summer research student

2021	May Chan, Undergraduate research student
2021	Liana Goodman, Undergraduate research student
2021	Nurgul Akhshataeva, Summer research student (PURE award)
2020	Ethan Kirkby, Summer research student (NSERC USRI award)
2018	Yu Ning Dai, Summer research student
2018	Amnah Saleem, Summer research student (PURE award)
2017	Richard Gao, Summer research student (NSERC USRI award)
2017	Sarah Schmidt, Summer research student (Mitacs Globalink award)
2017	Arthur Nguyen-Cao, Summer research student

Research Funding

26.	Digital Research Alliance of Canada, Resources for Research Groups (RRG)	2025-2026	$145,510	PI
25.	Alberta Innovates CASBE Program	2024-2026	$100,000	PI
24.	NSERC Alliance Grant	2024-2027	$225,000	PI
23.	NSERC Alliance International Catalyst Grant	2024-2025	$25,000	PI
22.	VPR Catalyst Grant	2024-2025	$12,000	PI
21.	2024 NSERC Discovery Grant	2024-2029	$195,000	PI
20.	Digital Research Alliance of Canada, Resources for Research Groups (RRG)	2024-2025	$79,431	PI
19.	Alberta Major Innovation Fund (MIF) on Space and Defence Technologies	2023-2028	$16,082,031	co-I
18.	Digital Research Alliance of Canada, Resources for Research Groups (RRG)	2023-2024	$92,432	PI
17.	CFI John R. Evans Leaders Funds	2022-2027	$262,685	PI
16.	Compute Canada, Resources for Research Groups (RRG)	2022-2023	$123,130	PI
15.	Compute Canada, Resources for Research Groups (RRG)	2021-2022	$30,092	PI
14.	NSERC Alliance Grant	2020-2025	$1,400,000	PI
13.	Alberta Innovates CASBE Stream II	2020-2022	$250,000	PI
12.	Mitacs Accelerate	2020-2023	$165,000	co-PI
11.	Compute Canada, Resources for Research Groups (RRG)	2020-2021	$20,026	PI
10.	NSERC Alliance COVID-19 Grant	2020-2021	$36,000	PI
9.	University of Calgary Faculty Seed Grant	2020-2021	$14,832	PI

8.	Compute Canada, Resources for Research Groups (RRG)	2019-2020	$27,583	PI
7.	NSERC CRD Grant	2019-2024	$5,132,400	co-PI
6.	NSERC Engage Grant	2018-2019	$25,000	PI
5.	Alberta Innovates CASBE	2018-2019	$25,000	PI
4.	Compute Canada, Resources for Research Groups (RRG)	2018-2019	$62,849	PI
3.	Compute Canada, Resources for Research Groups (RRG)	2017-2018	$61,057	PI
2.	NSERC Discovery Grant	2017-2024	$161,000	PI
1.	University of Calgary Start-Up Grant	2016-2019	$100,000	PI

Conference/Symposia Organization

2024 Main organizer and conference chair of the 16th World Congress on Computational Mechanics (WCCM16)

2024 Main organizer and conference chair of the 2nd Conference of the Canadian Association for Computational Science and Engineering

2023 Co-chair of the Special Track Computational Fluid-Structure Interaction: Frontiers in Methods and Applications (CFSI 2023) at Advances in Computational Mechanics Conference (ACM 2023)

2023 Co-organizer of Mini-symposia Session "Fluid-Structure Interaction in Interface and Moving Boundary Problems" at 17th US National Congress on Computational Mechanics (USNCCM17)

2023 Co-organizer of Mini-symposia Session "Fluids and Fluid-Structure Interaction" at 11th International Conference on Isogeometric Analysis (IGA 2023)

2023 Co-organizer of Mini-symposia Session "Advances in immersed/embedded/shifted/unfitted methods for computational fluid dynamics (CFD) and fluid-structure interaction (FSI)" at 22nd Computational Fluids Conference (CFC 2023)

2023 Main organizer and conference chair of the 1st Conference of the Canadian Association for Computational Science and Engineering

2022 Main organizer and conference chair of the 10th International Conference on Isogeometric Analysis (IGA 2022)

2022 Main organizer of Mini-symposia Session "Computational Fluid-Structure Interaction: Methods and Applications" at 15th WCCM

2020 Main organizer of the Conference on Isogeometric Analysis (VIGA 2020)

2019 Main organizer of Mini-symposia Session "Computational Fluid-Structure Interaction and Moving Boundaries and Interfaces" at 15th US National Congress on Computational Mechanics (USNCCM15)

2018 Main organizer of Mini-symposia Session "Computational Fluid-Structure Interaction" at ASME's International Mechanical Engineering Congress and Exposition (IMECE 2018)

2018 Main organizer of Mini-symposia Session "Industrial Applications of IGA Methods" at IGA 2018: Integrating Design and Analysis Conference

2018 Main organizer of the Conference on Advances in Fluid-Structure Interaction (AFSI 2018)

2017 Main organizer of Mini-symposia Session "Computational Fluid-Structure Interaction: Methods and Applications" at 14th US National Congress on Computational Mechanics (USNCCM14)

2017 Main organizer of Mini-symposia Session "Isogeometric Methods in Computational Mechanics" at 2017 EMI Conference.

2017 Co-organizer of Mini-symposia Session "Stabilized, Multiscale, and Isogeometric Methods in CFD" at IACM 19th International Conference on Finite Elements in Flow Problems (FEF 2017)

2016 Co-organiser of Mini-symposia Session “Industrial applications of IGA and Meshfree methods” at 2016 USACM Conference on Isogeometric Analysis

Refereed Journal Articles

(May 2025: Citations 2549, h-index 24, i10-index 35)
* - Corresponding author; Underlined - supervised HQP

2025 (3)

43. J. Kramer*, D. Lastiwka, J. Edwards, **A. Korobenko**, C. Johansen, “Ejector recirculation and entrainment”*, Journal of Propulsion and Power,* 2025, *accepted.*

42. S. Dave and **A. Korobenko***, “Consistent reduced order modeling for wind turbine wakes using variational multiscale method and actuator line model”, *Computer Methods in Applied Mechanics and Engineering,* 2025, *under review.*

41. S. Dave and **A. Korobenko***, “Predicting smooth body flow separation with finite-element-based variational multiscale method”, *Computational Mechanics,* 2025, *accepted.*

2024 (3)

40. M. Rajanna, M. Jaiswal, E. L. Johnson, N. Liu, **A. Korobenko**, Y. Bazilevs, J. Lua, N. Phan, M.-C. Hsu*, “Fluid–structure interaction modeling with non-matching interface discretizations for compressible flow problems: simulating aircraft tail buffeting”, *Computational Mechanics,* 74(2), pp. 367-377, 2024.

39. H. Cen, **A. Korobenko**, Q. Zhou*, “Quantifying and predicting near-wall global intermittency in stably stratified channel flow”, *Physics of Fluids,* 9(1), 014803, 2024.

38. D. Codoni, A. Bayram, M. Rajanna, C. Johansen, M.-C. Hsu, Y. Bazilevs, **A. Korobenko***, “Heat flux prediction for hypersonic flows using stabilized formulation”*, Computational Mechanics,* 73(2), pp. 419-426, 2024.

2023 (3)

37. A. Bayram and **A. Korobenko***, “Modelling of multi-phase, multi-fluid flows with applications to marine hydrokinetic turbines”, *Computer Methods in Applied Mechanics and Engineering,* 417 (Part A), 116433, 2023.

36. Y.Bazilevs, K.Takizawa, T.Tezduyar, **A.Korobenko**, T. Kuraishi, Y. Otoguro* ,“Computational aerodynamics with isogeometric analysis”, *Journal of Mechanics,* 39*,* pp. 24-39, 2023.

35. A. Bayram, M. Dhalwala, P. Oshkai, **A. Korobenko*** ,“Numerical simulations of a vertical-axis hydrokinetic turbine with different blade-strut configurations under free-surface effects”, *Engineering with Computers,* 39, pp. 1041-1054, 2023.

2022 (8)

34. M. Rajanna, E. L. Johnson, N. Liu, **A. Korobenko**, Y. Bazilevs, M.-C. Hsu*, “Fluid–structure interaction modeling with non-matching interface discretizations for compressible flow problems: computational framework and validation study”, *Mathematical Models and Methods in Applied Sciences,* 32(12), pp. 2497-2528, 2022.

33. M. Rajanna, E. L. Johnson, D. Codoni, **A. Korobenko**, Y. Bazilevs, N. Liu, J. Lua, N. Phan, M.-C. Hsu[*], "Finite Element Methodology for Aircraft Aerodynamics: Development, Simulation, and Validation", *Computational Mechanics,* 70(3), pp. 549-563, 2022.

32. H. Cen, Q. Zhu, **A. Korobenko**[*] ,"Isogeometric variational multiscale modeling of stably stratified flows over complex terrains", *Mathematical Models and Methods in Applied Sciences,* 32(12), pp. 2371-2399, 2022.

31. D. Codoni, C. Johansen, **A. Korobenko**[*] ,"A Streamline-Upwind Petrov-Galerkin stabilized method for the analysis of nonionized reacting hypersonic flows in thermal nonequilibrium", *Computer Methods in Applied Mechanics and Engineering,* 398, 115185, 2022.

30. M. Dhalwala, A. Bayram, P. Oshkai, **A. Korobenko**[*] ,"Performance and near-wake analysis of a vertical-axis hydrokinetic1turbine under a turbulent inflow", *Ocean Engineering,* 257, 111703, 2022.

29. G. Doerksen, P. Ziade, **A. Korobenko**, C. Johansen[*] ,"A Numerical Investigation of Recirculation in Axisymmetric Confined Jets", *Chemical Engineering Science*, 254, 117603, 2022.

28. A. Bayram and **A. Korobenko**[*] ,"Modeling of expiratory particles transport using an Eulerian approach and the variational multiscale method", *Atmospheric Environment*, 271, 118857, 2022.

27. H. Cen, Q. Zhu, **A. Korobenko**[*] ,"Wall-function-based weak imposition of Dirichlet boundary condition for stratified turbulent flows", *Computers & Fluids,* 234, 105257, 2022.

2021 (4)

26. H. Stoldt, **A. Korobenko**, P. Ziade, C. Johansen[*] ,"Verification and Validation of High-Fidelity Open-Source Simulation Tools for Supersonic Aircraft Aerodynamic Analysis", *Journal of Verification, Validation and Uncertainty Quantification*, 6(4), 041005 (11 pages), 2021.

25. A. Bayram and **A. Korobenko**[*] **,**"A numerical formulation for cavitating flows around marine propellers based on variational multiscale method", *Computational Mechanics*, 68, 405-432, 2021.

24. D. Codoni, G. Moutsanidis, M.-C. Hsu, Y. Bazilevs, C.T. Johansen, **A. Korobenko**[*],"Stabilized methods for high-speed compressible flows: towards hypersonic simulations" *Computational Mechanics*, 67(3), 785-809, 2021.

23. H. Cen, Q. Zhu, **A. Korobenko**[*] ,"Simulation of stably stratified turbulent channel flow using residual-based variational multiscale method and isogeometric analysis", *Computers & Fluids,* 214, 104765, 2021.

2020 (5)

22. K. Takizawa[*], Y. Bazilevs, T. Tezduyar, **A. Korobenko**, "Computational Flow Analysis in Aerospace, Energy and Transportation Technologies with the Variational Multiscale Methods", *Journal of Advanced Engineering and Computation*, 4(2), pp. 83-117, 2020.

21. M. Ravensbergen, T.A. Helgedagsrud, Y. Bazilevs, **A.Korobenko***, "Variational multiscale framework applied to atmospheric flow over complex environmental terrain", *Computer Methods in Applied Mechanics and Engineering,* 368, 113182, 2020.

20. A. Bayram and **A. Korobenko***, "Variational multi-scale framework for cavitating flows", *Computational Mechanics*, 66, pp. 49-67, 2020.

19. M. Ravensbergen, A. Bayram, **A.Korobenko***,"The Actuator Line Method for Wind Turbine Modelling Applied in a Variational Multiscale Framework", *Computers & Fluids,* 201, 104465, 2020.

18. A. Bayram, C. Bear, M. Bear, **A. Korobenko***, "Performance analysis of a vertical-axis hydrokinetic turbines array", *Computers & Fluids*, 200, 104432, 2020.

2019 (3)

17. T.A. Helgedagsrud*, Y. Bazilevs, **A.Korobenko**, K.M. Mathisen, O.A. Øiseth, "Using ALE-VMS to compute aerodynamic derivatives of bridge section", *Computers & Fluids,*179, pp. 820-832, 2019.

16. Y.Bazilevs*, J.Yan, X.Deng, **A.Korobenko**, "Computer modeling of wind turbines: 2. Free-surface FSI and fatigue-damage", *Archives of Computational Methods in Engineering*, 26(4), pp. 1101-1115, 2019.

15. **A.Korobenko***, Y.Bazilevs, K.Takizawa, T.Tezduyar, "Computer modeling of wind turbines: 1. ALE-VMS and ST-VMS aerodynamic and FSI analysis", *Archives of Computational Methods in Engineering,* 26(4), pp.1059-1099, 2019.

2017 (2)

14. **A.Korobenko*,** J.Yan, S.M.I.Gohari, S.Sarkar, Y.Bazilevs, "FSI Simulation of two back-to-back wind turbines in atmospheric boundary layer flow", *Computers & Fluids,* 158, pp.167-175, 2017.

13. J.Yan*, **A.Korobenko**, A.Tejada-Martinez, R.Golshan, Y.Bazilevs,"A new variational multiscale formulation for stratified incompressible turbulent flows", *Computers & Fluids,* 158, pp.150-156, 2017.

2016 (3)

12. J.Yan*, X.Deng, **A.Korobenko**, Y.Bazilevs "Free-surface flow modeling and simulation of horizontal-axis tidal-stream turbines", *Computers & Fluids,* 155, pp.157-166, 2016.

11. Y.Bazilevs*, **A.Korobenko**, X.Deng, J.Yan, "Fluid–Structure Interaction Modeling for Fatigue-Damage Prediction in Full-Scale Wind-Turbine Blades", *Journal of Applied Mechanics*, 83(6), 061010 (9 pages), 2016.

10. J.Yan*, **A.Korobenko**, X.Deng, Y.Bazilevs, "Computational free-surface fluid-structure interaction with application to offshore floating wind turbines", *Computers & Fluids*, 141, pp.155-174, 2016.

2015 (6)

9. J.Yan, B.Augier, **A.Korobenko**, J.Czarnowski, G.Ketterman, Y.Bazilevs* ,"FSI modeling of a propulsion system based on compliant hydrofoils in a tandem configuration", *Computers & Fluids,* 141, pp.201-211, 2015.

8. Y.Bazilevs*, X.Deng, **A.Korobenko**, F.Lanza di Scalea, S.G.Taylor, M.D.Todd, "Isogeometric Fatigue Damage Prediction in Large-Scale Composite Structures Driven by Dynamic Sensor Data", *Journal of Applied Mechanics*, 82(9), 091008, 2015.

7. Y.Bazilevs*, **A.Korobenko,** J.Yan, A.Pal, S.M.I.Gohari, S.Sarkar, "ALE-VMS Formulations for Stratified Turbulent Incompressible Flows with Applications", *Mathematical Models and Methods in Applied Science,* 25(12), pp. 2349-2375, 2015.

6. B.Augier, J.Yan, **A.Korobenko**, J.Czarnowski, G.Ketterman, Y.Bazilevs* ,"Experimental and numerical FSI study of compliant hydrofoils", *Computational Mechanics*, 55(6), pp.1079-1090, 2015.

5. X.Deng*, **A.Korobenko**, J.Yan and Y.Bazilevs, "Isogeometric Analysis of Continuum Damage in Rotation-Free Composite Shells", *Computer Methods in Applied Mechanics and Engineering*, 284, pp.349 372, 2015.

4. Y.Bazilevs*, **A.Korobenko**, X.Deng, J.Yan, "Novel Structural Modeling and Mesh Moving Techniques for Advanced FSI Simulation of Wind Turbines", *International Journal for Numerical Methods in Engineering*, 102(3-4), pp.766-783, 2015.

2014 (2)

3. Y.Bazilevs*, **A.Korobenko**, X.Deng, J.Yan, M.Kinzel, J.O.Dabiri, "FSI Modeling of Vertical-Axis Wind Turbines", *Journal of Applied Mechanics*, 81(8), 081006, 2014.

2. **A.Korobenko***, M.-C.Hsu, I.Akkerman, Y.Bazilevs, "Aerodynamic simulation of vertical-axis wind turbines*", Journal of Applied Mechanics*, 81(2), 021011, 2014.

2013 (1)

1. **A.Korobenko***, M.-C.Hsu, I.Akkerman, J.Tippmann, Y.Bazilevs, "Structural mechanics modeling and FSI simulation of wind turbines", *Mathematical Models and Methods in Applied Science*, 23, pp.249-272, 2013 **(Highly cited paper)**

Refereed Book Chapters

2023 (1)

8. **A.Korobenko***, A. Bayram, M. Dhalwala, "Variational Multi-Scale Method for High-Fidelity Simulation of Hydrokinetic Energy Applications", *Frontiers in Computational Fluid-Structure Interaction and Flow Simulation: Research from Lead Investigators under 40 - 2022*, edited by T.Tezduyar , Birkhäuser/Springer, pp. 223-254, 2023.

2021 (2)

7. **A.Korobenko***, M.Pigazzini, X.Deng, Y. Bazilevs, "Multiscale DDDAS Framework for Damage Prediction in Aerospace Composite Structures", *Handbook of Dynamic Data Driven Applications Systems*, edited by Erik P. Blasch, Frederica Darema, Sai Ravela, Alex J. Aved, Springer, pp. 693-712, 2021

6. **A.Korobenko***, M.-C. Hsu, Y. Bazilevs, "A Computational Steering Framework for Large-Scale Composite Structures: Part I—Parametric-Based Design and Analysis", *Handbook of Dynamic Data Driven Applications Systems*, edited by Erik P. Blasch, Frederica Darema, Sai Ravela, Alex J. Aved, Springer, pp. 163-180, 2021

2018 (4)

5. Y.Bazilevs*, J.Yan, X.Deng, **A.Korobenko**, “Simulating Free-Surface FSI and Fatigue-Damage in Wind-Turbine Structural Systems”, *Frontiers in Computational Fluid-Structure Interaction and Flow Simulation*, edited by T.Tezduyar, Birkhäuser/Springer, pp. 1-28, 2018

4. **A.Korobenko***, Y.Bazilevs, K.Takizawa, T.Tezduyar “Recent Advances in ALE-VMS and ST-VMS Computational Aerodynamic and FSI Analysis of Wind Turbines”, *Frontiers in Computational Fluid-Structure Interaction and Flow Simulation*, edited by T.Tezduyar , Birkhäuser/Springer, pp. 253-336, 2018

3. **A.Korobenko***, M.-C.Hsu, Y.Bazilevs, “A Computational Steering Framework for Large-Scale Composite Structures”, *Handbook of Dynamic Data Driven Applications Systems*, edited by Erik P. Blasch, Sai Ravela, Alex J. Aved, Springer, pp. 155-171, 2018

2. **A.Korobenko***, M.Pigazzini, X.Deng, Y. Bazilevs, “Multiscale DDDAS Framework for Damage Prediction in Aerospace Composite Structures”, *Handbook of Dynamic Data Driven Applications Systems*, edited by Erik P. Blasch, Sai Ravela, Alex J. Aved, Springer, pp. 677-696, 2018

2016 (1)

1. **A.Korobenko***, X. Deng, J.Yan, Y.Bazilevs, “Recent Advances in Fluid-Structure Interaction Simulations of Wind Turbines”, in *Advances in Computational Fluid-Structure Interaction and Flow Simulation*, A Tribute to Tayfun Tezduyar on the Occasion of his 60th Birthday, edited by K. Takizawa and Y. Bazilevs, Springer, pp. 489-500, 2016 (**most downloaded Birkhauser book in 2017**)

Due to page limit required (no more than 10 pages) the rest of dissemination of research activities are only summarized:

- Gave **more than 75 Invited Talks with Presentations**, including recent **plenary talk** at 12th International Conference on Isogeometric Analysis – IGA2024 (St. Augustine, FL, USA, October 27-30, 2024), **semi-plenary talk** to be given at 4th International Conference on Computational Engineering and Science for Safety and Environmental Problems - COMPSAFE2025 (Kobe, Japan, July 1-4, 2025) and **plenary talk** to be given at Artificial Intelligence and Digital Twins for Earth Systems Conference – AIDT4ES (Austin, TX, USA, September 22-24, 2025)

- Contributed to **more than 40** Conference Proceedings and Presentations at various international conferences, mainly delivered by my trainees (i.e. HQPs).