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**CV: Branko GLIŠIĆ, Civ. Eng. B.C.E., Ph.D., Math. B.Sc.**

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**EDUCATION**

1996-2000: **Ph.D. in Civ. Eng.**, Swiss Federal Institute of Technology, Lausanne (EPFL)

1989-1996: **B.Sc. in Theoretical Mathematics**, University of Belgrade, Faculty of Mathematics

1989-1994: **B.C.E. in Civil Engineering**, University of Belgrade, Faculty of Civil Engineering

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**EMPLOYMENT HISTORY**

2015-present: **Associate Professor**, Princeton University, Dept. of Civil and Environmental Eng.

2009-2015: **Assistant Professor**, Princeton University, Dept. of Civil and Environmental Eng.

2000-2008: **Solutions & Services Manager / R&D Manager**, SMARTEC SA, Switzerland

1996-2000: **Ph.D. Student, Teaching Assistant, Project Manager**, EPFL, Switzerland

1994-1996: **Teaching Assistant**, University of Belgrade, Faculty of Civil Engineering

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**RESEARCH TOPICS**

- **Structural Health Monitoring (SHM)** for sustainable and resilient future cities based on advanced sensing, data analysis, and structural modeling, and emerging digital technologies
  - Advanced SHM technologies: fiber optic sensors (**FOS**), 2D sensing sheets based on large area electronics (**LAE**), 3D sensing using **GPR** and embedded **RF-sensors**, conductive polymers
  - Adv. SHM data analysis: **physics-** and **data-based** diagnostics and prognostic by combined **analytical and numerical modelling** (FEM, DEM) with **machine learning** (CNN, EMD, etc.)
  - Advanced data and metadata management: documentation, integration, and visualization using Photogrammetry, Virtual Tours, Information Modelling, and Augmented Reality (**VT/IM/AR**)
  - SHM decision-making: **Bayesian** inference, cognitive and organizational bias of **heuristics**, expected utility theory (**EUT**), prospect theory (**PT**), and value of information (**VOI**)
  - **Cyber-Physical Systems** based on true **Smart Structures** (kinetic, deployable, and adaptable)
  - **Heritage structures, structural art**: holistic analysis for sustainable preservation and reuse
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**TEACHING SUBJECTS**

CEE521 Continuum Mechanics	CEE521 Continuum Mechanics
CEE312 Statics of Structures	EGR156 Foundations of Eng.: Multivariable Calc.
CEE439/537 Structural Health Monitoring	EGR102 Engineering in the Modern World (precept)
CEE463/263/GLS263 A Social and Multi-Dimensional Exploration of Structures	EGR194 An Introduction to Engineering (one lesson)
CEE538/ART538 Holistic Analysis of Heritage Structures	ELE547C Selected Topics in Solid-State Electronics: Large Area Electronics (one lesson)
	Short Courses on SHM using Fiber Optic Sensors

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**TEACHING SKILLS**

Courses followed and completed in Pedagogy, Psychology, and Methods of Education

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**LANGUAGES**

Serbian (also Croatian, Bosnian, and Montenegrin) Mother tongue  
English, French, Italian, Macedonian Fluent

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## TWO-PAGE SUMMARY

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This section summarizes the most important professional achievements, **focusing on period July 2015-present**. Details are given in **expanded CV, in subsequent pages**.

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### SELECTED AFFILIATIONS

- PIIRS**      **Faculty Associate**, Princeton Institute for International and Regional Studies, Princeton University, 2019 – present
- DUT**        **Visiting Professor (3-year term)**, Dalian U. of Technology, China, 2018-2021
- CAIT**       **Affiliated Faculty**, Center for Advanced Infrastructure and Transportation, Rutgers University, 2009 – present
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### SELECTED PROFESSIONAL MEMBERSHIPS (LEADERSHIP ROLES 2015-PRESENT)

- ISHMII**    **Vice-President for Education, Council Member**, International Society for Structural Health Monitoring of Intelligent Infrastructure
- SPIE**      **Lifetime Member, Conference Co-Chair:** Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems, within SPIE Smart Struct. & Non-Destructive Eval., Int’l Soc. for Optics and Photonics
- ACI**        **Voting Member**, Committee 444: Structural Health Monitoring, American Concrete Institute
- TRB**        **Inaugural Committee Member**, Bridge Preservation Committee (AKT60), Transportation Research Board of the National Academies  
**Member**, Joint Subcommittee on Structural Health Monitoring (AHD30(3))
- IRD/ASCE** **Member**, Emerging Technologies Committee, Infrastructure Resilience Division of American Society of Civil Engineers
- IEC**        **Member, Technical Advisory Group** for Int’l Standards Developments, IEC SC86C: *Fibre Optics Systems & Active Devices*, Int’l Electrotech. Commission
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### SELECTED HONORS AND AWARDS (2015-PRESENT)

- 2021:**      **ASCE Moisseiff Award**, “...to an important paper published in a print issue of an ASCE journal ... dealing with the broad field of structural design, including applied mechanics...”, by Structural Engineering Institute of American Soc. of Civ. Eng.
- 2019:**      **ISHMII Fellow**, “...*highest class of membership*... achieved a position of high responsibility and have contributed significantly to the advancement of the field through research or practice or both.”, by Int’l Soc. for SHM of Intelligent Infrastr.
- 2019:**      **SPIE Community Champion**, “for commitment to SPIE, its mission, and broader optics and photonics community”, by International Society for Optics and Photonics
- 2019&20:** **Three journal papers**<sup>H4,H5,H6</sup> cited as **10% most downloaded / most read papers** in *Comput-Aided Civ Inf*, *Struct. Control Hlth*, and *J. Struct. Eng.(ASCE)*
- 2016&17:** **Princeton Engineering Commendation List for Outstanding Teaching**, (Fall 2017 CEE 521 ‘Continuum Mechanics’ and Fall 2016 CEE 539 ‘SHM’)
- 2017&21:** **Two Literary Achievement Awards**, by International Bank Note Society (*hobby*)
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### SUMMARY OF RESEARCH FUNDING (2015-PRESENT)

	Awarded	Pending
External grants:	\$697,585	\$4,503,523 (as lead \$2,000,000)
Internal grants:	\$510,360	\$133,000 (as lead \$90,000)
In-kind:	\$694,884	
<b>Total:</b>	<b>\$1,902,829</b>	<b>\$4,636,523 (as lead \$2,090,000)</b>

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## SELECTED COLLABORATIVE PROJECT AND INITIATIVES (2015-PRESENT)

### OUTSIDE PRINCETON UNIVERSITY

**USDOT-UTC Program:** The United States Department of Transportation University Transportation Center (UTC), ‘Region 2’, consortium of ten US colleges and universities, 2018-2022; **Princeton Project Director**

**Future Cities Laboratory (Singapore – ETH Centre): *Responsive Cities*;** numerous international collaborators, 2015-2019; **Cyber Civil Infrastruct. Advisory Committee**

**The Getty Foundation: *Keep it modern*;** consort. of eight institutions aiming at restoring and preserving The Nat’l School of Arts, Havana, 2019-2020; **Princeton Coordinator**

### WITHIN PRINCETON UNIVERSITY

**Heritage Structures Program: *Holistic Analysis of Heritage Structures*;** in development with Department of Art & Archaeology, 2015-present; **Co-Founder**

**Engineering and the Arts Initiative:** *university wide movement (informal mini-center) that focuses on research challenges at intersection of the two*, 2018-present; **Co-Founder**

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**INVITED, KEYNOTE, AND GUEST LECTURES:** 32 lectures at events 2015-2021, 57 in total

**SPONSORED VISITS, WORKSHOPS, AND LECTURES:** 13 events 2015-2021, 27 in total

**SPECIAL EVENTS, NEWS, AND OUTREACH:** 16+ instances 2015-2021, 27+ in total

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### SELECTED SERVICES OUTSIDE PRINCETON UNIVERSITY (2015-PRESENT)

**Advisory Board Member: Federal Highway Administration** Exploratory Advanced Research Project “Virtual Nondestructive Evaluation (NDE) for Highway Structures”; **University of Perugia**, Italy, the International Faculty Board of the Doctoral Program in CEE

**Tenure / Promotion Referee** for two international and three national cases

**Editorial Board Member** of six journals (including *Sensors*) and guest editor of five special issues; **Executive Editorial Board Member**, Engineering Research Express

**Scientific Advisory or Program Committee Member** of numerous events, incl. **IWSHM, SPIE, SHMII, IABSE**, etc.; **Organized / Chaired** of 18 mini-symposia and spec. sessions

**Reviewer of research proposals** (incl. NSF, NSERC, SNF) and numerous **journal papers**

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### SELECTED SERVICES TO PRINCETON UNIVERSITY (2015-PRESENT)

**University Research Board** (2020-present), **Committee on Library and Computing** (2019-present), **Faculty Council on Teaching and Learning** (2017-2019), **Chair** (2018-2019)

**Executive Committee**, Programs in Archaeology (2018-2021) and Arc. and Eng. (2017-2020)

**Director of Undergraduate Studies**, Department of CEE (2015-present)

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### MENTORING (2015-PRESENT)

**UNDERGRADUATE: Summer:** 10 students; **Independent study:** 18 stud.; **Senior thesis:** 22 stud.

Outcomes: *12 journal papers, 15 students awarded; 2 advisees work in academia*

**GRADUATE: M.S.E.:** 6 stud.; **Ph.D.:** 9 stud. (6 grad., 3 to grad. 2022-24); **VSRC:** 4 int’l stud.

Outcome: *37 journal papers, 1 book chapter, 9 awards; 3 grad. Ph.D.s work in academia*

**POSTDOCTORAL:** 2 postdocs; Outcome: *6 journal papers; 1 postdoc works in academia*

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### PUBLICATIONS 2015-PRESENT (METRICS FOR ALL TIMES AS OF DECEMBER 31, 2021)

**Books:** 1 in prep.; **Book chapters:** **3 published**; **Papers:** **57 published**; **Conferences:** 70 publ.

**Citations (all times):** Scopus = 3712; (Scopus no self-citations = 2804); Google scholar = 5095

**h-index (all times):** Scopus = 30; (Scopus no self-citations = 27); Google scholar = 36

## EXPANDED CV (2009-PRESENT)

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### OTHER AFFILIATIONS

- Keller Ctr.** **Associated Faculty**, The Keller Center for Innovation in Engineering Education, Princeton University, 2020 – present
- PIIRS** **Faculty Associate**, Princeton Institute for International and Regional Studies, Princeton University, 2019 – present
- ACEE** **Associated Faculty**, The Andlinger Center for Energy and Environment, Princeton University, 2019 – present
- DUT** **Visiting Professor**, Dalian University of Technology, China, 2018-2021
- PRISM** **Associated Faculty**, Princeton Institute for the Science and Technology of Materials, 2015 – present
- CAIT** **Affiliated Faculty**, Center for Advanced Infrastructure and Transportation, Rutgers University, 2009 – present
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### PROFESSIONAL MEMBERSHIPS AND SERVICES

- fib** **Member**, Task Group TG3.5 – Forensic Engineering, Fédération internationale du béton / International Federation for Structural Concrete
- ISHMII** **(L)Vice-President for Education, Council Member**, International Society for SHM of Intelligent Infrastructure
- SPIE** **Lifetime Member, (L)Conference Co-Chair**: Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems, within SPIE Smart Struct. & Non-Destructive Eval., Int’l Soc. for Optics and Photonics
- ACI** **(L)Voting Member**, Committee 444: Structural Health Monitoring, American Concrete Institute
- TRB** **(L)Inaugural Committee Member**, Standing Committee on Bridge Preservation (AKT60) and **Member**, Joint Subcommittee on Structural Health Monitoring (AHD30(3)), Transportation Research Board of the National Academies
- ASCE** **Member**, Emerging Technologies Committee of Infrastructure Resilience Division (**IRD**), Structural Health Monitoring and Control Committee of Engineering Mechanics Institute (**EMI**), Structural Engineering Institute (**SEI**), American Society of Civil Engineers
- IEC** **(L)Member, Technical Advisory Group** for International Standards Developments, IEC SC86C: *Fibre Optics Systems & Active Devices*, International Electrotechnical Commission
- ASTM** **International: (L)Member of Committee F36, TG F36.10** for standardization of *Distributed Optical Fiber Sensing Systems (DOFSS)* (2013-2016)
- IABSE** **Member**, International Association of Bridge and Structural Engineers
- IABMAS** **Member**, International Association for Bridge Maintenance and Safety

**(L) = Leadership Role**

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### HONORS AND AWARDS

#### RESEARCH HONORS AND AWARDS

- 2021: ASCE Moisseiff Award**, “...to an important paper ... dealing with the broad field of structural design, including applied mechanics...”, by SEI of ASCE.
- 2019: ISHMII Fellow**, “... **highest class of membership** ... achieved a position of high responsibility and have contributed significantly to the advancement of the field ...”.
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- 2019: **SPIE Community Champion**, “for commitment to SPIE, its mission, and broader optics and photonics community”, by International Society for Optics and Photonics.
  - 2014: **Highly Commended Award**, CIOB International Innovation & Research Awards 2013 in the Innovation Achiever’s Award category, “...celebrate the best in research and development, both in academic institutions and out in the industry...”, by The Chartered Institute of Building (CIOB), UK
  - 2014: **E. Lawrence Keyes, Jr. / Emerson Electric Co. Faculty Advancement Award (‘Junior faculty advancement award’)**, “recognizing excellence in teaching and scholarship”, by the School of Engineering and Applied Science, Princeton University
  - 2013: **The Structural Health Monitoring Person of the Year Award**, “...made an outstanding contribution to the field of SHM that will benefit society...”, by the editorial board, associate editors, and editors of Structural Health Monitoring: An International Journal
  - 2012: **First place, 7<sup>th</sup> Annual Innovation Forum**, by Keller Center, Princeton University

#### PAPER HONORS AND AWARDS

- 2020: **Journal paper<sup>HA</sup>** the **most read paper** in the month in which it was published in ASCE “*Journal of Structural Engineering*”, **also see above ASCE Moisseiff Award**
- 2019: **Journal paper<sup>H5</sup>** among top 10% of **most downloaded** papers in the 12 months following online publication in journal “*Computer-Aided Civil and Infrastruct. Eng.*”
- 2019: **Journal paper<sup>H4</sup>** among top 10% of **most downloaded** papers in the 12 months following online publication in journal “*Structural Control and Health Monitoring*”
- 2019: **Journal paper<sup>C2</sup>**: figure from paper **selected as cover page** of journal issue (*Heritage*, vol. 2, issue 1)
- 2015: **Journal paper<sup>C1</sup>**: figure from paper **selected as cover page** of journal issue (*Journal of the International Association for Shell and Spatial Structures*, vol. 56, issue 4)
- 2014: **Journal paper<sup>F3</sup>** included in the list of ‘**featured articles**’, “*recent articles of high-interest across IOP content*” (IOP = Institute of Physics, London)
- 2014: **Journal paper<sup>F2</sup>** included in the list of ‘**featured articles**’, “*recent articles of high-interest across IOP content*” (IOP = Institute of Physics, London)
- 2014: **Journal paper<sup>H3</sup>** included in the ‘**Highlights of 2013**’ collection “*on the basis of referee endorsement, novelty and scientific impact*”, by the editors of the journal “**Smart Materials and Structures**”
- 2013: **Journal paper<sup>F1</sup>** included in the list of ‘**featured articles**’, “*recent articles of high-interest across IOP content*” (IOP = Institute of Physics, London)
- 2013: **Journal paper<sup>H2</sup>** included in the ‘**Highlights of 2012**’ collection “*which also includes articles from the journal’s 90 year archive*”, by the editors of the journal “**Measurement Science and Technology**”
- 2012: **Journal paper<sup>H1</sup>** included in the ‘**Highlights of 2011–2012**’ collection “*on the basis of referee endorsement, novelty and scientific impact*”, by the eds. of “**Meas. Sci. and Tech.**”
- 2007: **Award for Best Paper<sup>A1</sup> in SHM Applications** at SHMII 3<sup>rd</sup> International Conference, recognition for outstanding contribution by **ISHMII** with the JMBT Structures Research Inc.
- 2002: Conference paper<sup>N</sup> nominated for K.B. Woods Award at TRB 81<sup>st</sup> Annual Meeting

**H, F, A, N, I, C = see denoted papers in the list of publications**

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## TEACHING HONORS AND AWARDS

- 2017: Princeton Engineering Commendation List for Outstanding Teaching**, SEAS, Princeton University (for AY 2016/17 Fall Course CEE 521 ‘Continuum Mechanics’)
- 2016: Princeton Engineering Commendation List for Outstanding Teaching**, SEAS, PU (for AY 2015/16 Fall Course CEE 539 ‘Structural Health Monitoring’)
- 2014: Princeton Engineering Commendation List for Outstanding Teaching**, SEAS, PU (for AY 2013/14 Fall Course CEE 539 ‘Structural Health Monitoring’)
- 2014: Nomination for Graduate Mentoring Award, McGraw Center for Teaching and Learning and the Graduate school, Princeton University
- 2013: Princeton Engineering Commendation List for Outstanding Teaching**, SEAS, Princeton University (for AY 2012/13 Spring Course CEE 312 ‘Statics of Structures’)
- 2012: Princeton Engineering Commendation List for Outstanding Teaching**, SEAS, Princeton University (for AY 2011/12 Spring Course CEE 312 ‘Statics of Structures’)
- 2011: Princeton Engineering Commendation List for Outstanding Teaching**, SEAS, Princeton University (for AY 2010/11 Spring Course CEE 312 ‘Statics of Structures’)
- 2011: Excellence in Teaching Award**, Undergraduate and Graduate Engineering Council (E-Council) of Princeton University (for AY 2009/10 Spring Course CEE 312 ‘Statics of Structures’)

## HONORS AND AWARDS WHILE STUDYING

- 1995: Award to Best Graduate of the Faculty of Civil Engineering**, by the University of Belgrade, Serbia
- 1995: Professor Vladimir Korolija Award (best graduate of the Faculty of Civil Engineering)**, by the Faculty of Civil Engineering, University of Belgrade, Serbia
- 1995: Professor Djordje Lazarević Award (best graduate in Structural Engineering)**, by the Faculty of Civil Engineering, University of Belgrade, Serbia

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## FUNDING 2009-PRESENT (AWARDED \$3,007,743, PENDING \$4,636,523)

### EXTERNAL GRANTS (\$1,505,192)

- NSF CMMI-2038761: **\$399,996, Princeton PI**, “CPS: Medium: Collaborative Research: Scalable Intelligent Backscatter-Based RF Sensor Network for Self-Diagnosis of Structures,” (*with Stony Brook University*), 10/01/2021 – 09/30/2024
- USDOT-RITA Region 2 University Transportation Center (UTC) CAIT (\$150,000)**  
CAIT-UTC-REG13/0615, **\$75,000, PI**, “State-of-the-art technologies for structural health monitoring of tunnels: an overview,” 08/01/2021 – 07/31/2022  
CAIT-UTC-REG13/0615, **\$75,000, PI**, “Virtual Tour (VT), Informational Modeling (IM), and Augmented Reality (AR) for Visual Inspections (VI) and Structural Health Monitoring (SHM),” 09/01/2018 – 01/31/2021
- EU H2020-MSCA-IF-2020: **\$41,149, Princeton PI**, “A holistic structural analysis method for cultural heritage structures conservation (HOLAHERIS),” (*with University of Bologna, Italy, and University of Minho, Portugal*), 12/01/2021-05/31/2023

### THE GETTY FOUNDATION: 2018 Keep it Modern Grant (\$12,960)

Subcontract, **\$12,960, PI**, “The National Schools of Art of Havana, Ricardo Porro, Vittorio Garatti, and Roberto Gottardi, 1961-64, Cuba” (*in collaboration with Prof.*

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*Maria Garlock, consortium of eight institutions, lead university: Politecnico di Milano, total amount awarded \$195,000), 09/01/2019 – 08/31/2020*

**NSF CMMI-1434455: \$119,992, Princeton PI, “COLLABORATIVE RESEARCH: Structural Identification & Health Monitoring using Temperature-Driven Data” (with *Texas A&M University*), 08/01/2014 – 07/31/2018**

**NSF CMMI-1362723: \$200,000, PI, “Fiber Optic Method for Bridge Health Assessment Based on Long-Gauge Sensors,” 07/01/2014 – 06/30/2017**

**USDOT-RITA National University Transportation Center (UTC) CAIT (\$187,754)**

DTRT13-G-UTC28/5237, **\$93,480, PI, “Long-term evaluation of prestress losses in concrete bridges using long-gauge fiber optic sensors,” 07/01/2016 – 01/31/2018**

DTRT13-G-UTC28/5237, **\$94,274, PI, “Arrangement of sensors and probability of detection for sensing sheets based on large-area electronics for reliable structural health monitoring,” 07/01/2014 – 01/31/2016**

**USDOT-RITA Tier I University Transportation Center (UTC) CAIT (\$207,000)**

DTRT12-G-UTC16/4650, **\$54,800, PI, “Evaluation of uncertainty in determination of neutral axis and deformed shape of beam structures,” 07/01/2014 – 12/31/2015**

DTRT12-G-UTC16/4650, **\$97,500, PI, “COLLABORATIVE PROPOSAL: Multi-Sensor Sheets Based on Large-Area Electronics for Advanced Structural Health Monitoring of Civil Infrastructure” (with *Columbia University and University of Delaware*), 01/01/2013 – 09/30/2014**

DTRT12-G-UTC16/4650, **\$54,800, PI, “Fiber optic monitoring methods for composite steel-concrete structures based on determination of neutral axis and deformed shape,” 06/15/2012 – 11/30/2013**

**NSF EEC-0855023, subaward #235622: \$86,273, PI, “The Learning Bridge: Data Management Software,” 09/01/2010 – 08/31/2012**

**NSF CMMI-0936493: \$99,968, PI, “NEESR Payload - Fiber Optic (FO) Method for Buried Pipelines Health Assessment after Earthquake-Induced Ground Movement,” 02/01/2010 – 01/31/2012**

**INTERNAL RESEARCH GRANTS AND AWARDS (\$567,829)**

**Campus as a lab – \$55,828.90, PI, “Instrumentation of East Parking structure with Structural Health Monitoring system”, 06/01/2021 – present**

**Metropolis Project grant, \$60,000, Co-PI (with *Prof. M. Garlock, Department of Civil and Environmental Engineering*), “Prototyping and Field Testing of Smart Kinetic Umbrellas for Resilient Cities”, TBD, grant is being finalized**

**Project X – Innovation Proposal, \$150,000, Co-PI (with *Prof. M. Garlock, Department of Civil and Environmental Engineering*), “Kinetic Umbrellas for Storm Surge Protection, a Sustainable Environment, and Solar Energy”, 07/01/2018-06/30/2020**

**Artists and Scientists or Engineers Fund – Collaborative Proposal, \$112,000, PI (with *Prof. M. Koortbojian, Department of Art and Archaeology*), “Integrative Technology for Holistic Analysis of Heritage Structures”, 07/01/2017-06/30/2019**

**Bartlett Family Fund – Innovation Proposal, \$50,000, PI (with *Prof. M. Arafa, Department of Mechanical Engineering, American University of Cairo, and Prof. N. Verma and J. Sturm, Department of Electrical Engineering*), “Vibration-based energy harvesting system for sensing sheets”, 07/01/2017-06/30/2019**

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**Anonymous Fund** – Innovation Proposal, **\$50,000, PI** (*with Prof. L. Loo, Department of Chemical and Biological Engineering*), “PANI Sensing Sheets – advanced sensors for reliable SHM,” 07/01/2014-06/30/2015

**Keller Center** – Innovation Forum Award, **\$25,000, PI** (*in collaboration with Prof. N. Verma, J. Sturm, and S. Wagner, Department of Electrical Engineering*), 2012

**PRISM** – seed grant, **\$65,000, PI** “Sensing Sheets based on Large-Area Electronics”, 2011

#### **INTERNAL TEACHING GRANTS AND AWARDS (\$82,531)**

**Princeton U. and U. of São Paulo Partnership Grant** – Annual Call (*with Prof. Túlio Bittencourt, USP*), **\$5,000**, “Joint Short Course on SHM”, 09/01/2019-08/31/2021

**250<sup>th</sup> Anniversary Fund** – Special Summer 2020 Cycle, **\$10,981**, “Significantly Redesign: EGR 156 Found. of Eng.: Multivariable Calculus” for an online environment, 2020.

**Council on Science and Technology: Annual Call** (*with Prof. M. Koortbojian*), **\$13,000**, “CEE 538 / ART 538 Holistic Analysis of Heritage Structures: An Upgrade of the Course”, Summer 2020, Annual Call (*with Prof. M. Koortbojian, Department of Art and Archaeology*), **\$28,800**, “Modules on Ground Penetrating Radar and Photogrammetry for Archaeological Reconstructions, Geological Investigation, and SHM”, Summer 2017, Annual Call (*w. Prof. M. Garlock*), **\$12,750**, CEE 463, S. 2017

**Keller Center** – innovative teaching grant, **\$8,000**, CEE463/CEE538/CEE312, 2016-2020

**SEAS** – Undergrad Lab Funding, **\$4,000**, “Ground-penetrating radar (GPR) antenna”, 2015

#### **IN-KIND GRANTS (\$852,191)**

Include: four NSF Graduate Research Fellowships; IBM, Leifur Eiriksson, Bjorn Saven, and C.E. Procter fellowships; Yonsei Univ. and EU “Marie Curie” Postdoc. Fellowships.

#### **PENDING FUNDING \$ 4,636,523**

**External: PI**, one NSF proposal, **\$2,000,000**, Co-PI, one NSF proposal, **\$2,503,523**

**Internal: PI**, one SEAS proposal, **\$90,000**, Co-PI, one Humanities proposal, **\$43,000**

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### **SELECTED COLLABORATIVE PROJECTS AND INITIATIVES**

#### **OUTSIDE PRINCETON UNIVERSITY 2009-PRESENT**

**USDOT-UTC Program:** The United States Department of Transportation University Transportation Center (UTC), designated as ‘Tier I’ (2012-2014), ‘National’ (2014-2018), and ‘Region 2’ (2018-2022). *The UTC Consortium (varied for different designations): Rutgers Univ. (Lead), Atlantic Cape Community College, Columbia Univ., Cornell University, New Jersey Institute of Technology, Polytechnic Univ. of Puerto Rico, Princeton Univ., Rowan Univ., SUNY–Farmingdale State College and SUNY–Univ. at Buffalo, Univ. of Delaware, Univ. of South Florida, Univ. of Texas at El Paso, Utah State University, and Virginia Polytechnic Institute and State Univ.;* Awarded funding 2012-2021: **~\$8.5 M** with possibility of renewal

**- Role: Princeton Project Director**

**Future Cities Laboratory (Singapore – ETH Centre): *Responsive Cities*;** “The Responsive Cities scenario aims to harness the power of information technology to support an integrated transdisciplinary planning approach that engages the large scale and complexity of future city systems;” numerous international collaborators including **ETHZ** and **EPFL**, 2015-2019

**- Role: Case-Study Collaborator, Cyber Civil Infrastructure Advisory Committee**



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**The Getty Foundation: Keep it modern;** Consortium of eight institutions aiming at restoring and preserving The National School of Arts of Havana, Cuba; *participants: Politecnico di Milano (three departments), Vittorio Garatti Committee for the Havana National Schools of Art, Assorestauro - Italian Association for Architectural, Artistic and Urban Restoration (with A.P.T.I. - Association for Preservation Technology International), and Universita degli Studi di Parma, 2019-2020*  
**- Role: Princeton Coordinator**

#### **WITHIN PRINCETON UNIVERSITY 2009-PRESENT**

**Heritage Structures Program: Holistic Analysis of Heritage Structures:** in development with Department of Art & Archaeology, invited speakers' series, graduate course, graduate research  
**- Role: Co-Founder**

**Engineering and the Arts Initiative: creating movement with potential transformation into mini-center or similar that will focus on challenges at intersection of the two and mutual cross-fertilizing of research;** in development with colleagues from Departments of Civil and Environmental Engineering, Mechanical and Aerospace Engineering, and Computer Science  
**- Role: Co-Founder**

**Princeton-Sao Paolo: Joint Short Course on Structural Health Monitoring, Strategic Partnership between Princeton and University of Sao Paolo, Brazil;** Princeton participant from: *Department of CEE; Sao Paolo participant from Department of CEE*  
**- Role: Princeton PI**

#### **WHILE AT SMARTEC SA, SWITZERLAND 2000-2008 (ROLE: PROJECT MANAGER)**

- EC NMP2-CT-2006-026789, total ~€6,6 M (26 project partners), “**POLYTECT:** Polyfunctional Technical Textiles against Natural Hazards,” 6th FWP, 09/01/2006 – 08/31/2010
- EC G1RD-CT-2001-00543: total ~€1,4 M (5 project partners), “**ZEM:** Zero-hazard gas storage by multisensing optical monitoring system,” 5th FWP, 10/01/2001 – 02/28/2005
- EC ENK6-CT-2000-00074 and 13570, €2,1 M (5 project partners), “**PDT-COIL:** Research and development of an intelligent power and data transmission composite coiled tubing for the exploration of hydrocarbons,” 5th FWP, 09/01/2000 – 08/31/2005

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#### **INVITED, KEYNOTE, AND GUEST LECTURES (2009-PRESENT)**

- 57 Invited lecture** “Innovative Technologies and Advanced Data Analytics for Transformative Strain-Based Structural Health Monitoring”, Henry L. Pierce Laboratory Seminar Series, **MIT**, November 10, 2021.
- 56 Invited talk** “Innovation in Strain-Based Structural Health Monitoring”, Advanced Technology Group Meeting, HNTB, November 5, 2021.
- 55 Invited speaker** “Fiber Optic Sensing and Machine Learning for Infrastructure Reliability and Resilience”, **ASCE TechTalks**, CTA Session #1: Emerging Technologies for Infrastructure Resilience, October 12, 2021.

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- 54 **Guest lecture**, “Structural Health Monitoring Applications” in PEF6005 Structural and Geotechnical Health Monitoring of Infrastructure Works, University of Sao Paolo, Brazil, August 18, 2021.
  - 53 **Invited presentation** “SHM for Resilient Communities: Resourcefulness and Responsiveness”, 2021 Virtual Infrastructure Resilience Forum: Emerging Technologies for Resilient Infrastructure, American Society of Civil Engineers (ASCE), May 25, 2021.
  - 52 **Invited course** “Structural Health Monitoring Using Fiber Optic Sensors”, **SHMII-10** – 10<sup>th</sup> International Conference on SHM of Intelligent Infrastructure, pre-conference event, Porto, Portugal, June 23-25, 2021.
  - 51 **Guest lecture**, “Long-term Monitoring of Civil Structures Using Fiber Optic Sensors” in CE 549 Structural Health Monitoring, Iowa State University, November 12, 2020.
  - 50 **Invited panelist**, “Things I learned as a first-year faculty member”, Pathways into Academy Program of SEAS, Princeton University, November 11, 2020.
  - 49 **Invited talk**, “Structural Health Monitoring: can we extend the lifespan of concrete structures?”, Rethinking Concrete: Material Conventions in the Anthropocene, School of Architecture, Princeton University, October 22, 2020.
  - 48 **Conference-track invited talk** “Long-term Monitoring of Civil Structures and Infrastructure Using Long-Gauge Fiber Optic Sensors”, **2019 IEEE Sensors**, Montreal, Canada, October 27, 2019
  - 47 **Invited course** “Strain-Based Structural Health Monitoring Using Fiber Optic Sensors”, **SHMII-9** – 9<sup>th</sup> International Conference on SHM of Intelligent Infrastructure, pre-conference event, St. Louis, MO, August 4, 2019.
  - 46 **Invited lecturer**, Asian-Pacific-Euro Summer School on Smart Structures Technology (**APSS 2019**), Sapienza University, Rome, Italy, July 16, 2019
  - 45 **Guest seminar**, **Rensselaer Polytechnic Institute**, “Innovation in Strain-Based Structural Health Monitoring using Advanced Technologies”, Troy, NY, 03/27/2019.
  - 44 **Invited seminar** “Augmented Reality for Structural Inspection and Management” New York State Department of Transportation (**NYSDOT**) 2019 Bridge Inspectors Meeting, Albany, NY, March 26, 2019
  - 43 **Invited seminar**, **Dalian University of Technology**, “Innovation in Strain-Based Structural Health Monitoring” Dalian China, January 23, 2019
  - 42 **Invited presenter** “SHM-based Virtual and Augmented Reality for Visual Inspection and Nondestructive Evaluation”, **TRB Webinar**: Augmented Reality for Structural Inspections, Transportation Research Board of National Academies, November 29, 2018 (co-lecturer with Ph.D. advisee Rebecca Napolitano).
  - 41 **Invited speaker** “Long-term SHM data and metadata management using informational modeling and virtual reality environments” 7<sup>th</sup> World Conference on Structural Control and Monitoring (**WCSCM2018**), Qingdao, China, July 24, 2018.
  - 40 **Invited lecturer**, “Case Histories and Lessons Learned: Learning from long-term structural health monitoring of the Streicker Bridge”, 5th International Course on Geotechnical and Structural Monitoring (**IcGSM**), NHAZCA S.R.L Rome (in collaboration with Sapienza University), Rome, Italy, May 24, 2018

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- 39 **Invited speaker** “Creativity in Cuban thin shell structures”, **LA HABANA 2018** Lista de Espera – International Convention on Architecture and Heritage of Havana, Politecnico di Milano, Italy, March 16, 2018 (co-lecturer with Prof. Maria Garlock)
  - 38 **Invited speaker** “Structural Health Monitoring Based on Long-Gauge and Distributed Strain Sensors”, **CORE studio Thornton & Tomasetti**, AEC Tech Symposium, Cornell Tech, October 20, 2017
  - 37 **Invited seminar** “Introduction to Structural Health Monitoring: Basic notions and examples”, Internet of Things in Construction Industry: Structural Health Monitoring, industry-academia initiative, VMS Belgrade and University of Belgrade, Faculty of Civil Engineering, July 06, 2017
  - 36 **Keynote lecture** “Integration of new technologies for data acquisition, analysis, and visualization”, 7<sup>th</sup> Workshop on Civil Structural Health Monitoring – **CSHM-7**, EAFIT University, Medellin, Columbia, June 22-23, 2017
  - 35 **Guest seminar, Northeastern University**, “Formalized Methods for Strain-Based Structural Health Monitoring”, April 13, 2017
  - 34 **Guest seminar, Portland State University**, “Strain-Based Structural Health Monitoring of Bridges Using Fiber Optic Sensors”, March 28, 2017
  - 33 **Guest seminar, Worcester Polytechnic Institute**, “Universal Strain-Based Structural Health Monitoring Methods”, October 12, 2016
  - 32 **Guest seminar, Stevens Institute of Technology**, “Strain-Based Structural Health Monitoring using Advanced Sensing Technologies”, September 7, 2016
  - 31 **Guest seminar, Georgia Tech**, “Universally Applicable Strain-Based Structural Health Monitoring Methods”, August 29, 2016
  - 30 **Plenary session** “Performance and Health Monitoring of Civil Structures and Infrastructure using Long-Gauge and Distributed Fiber Optic Sensors”, 18th International Conference on Transparent Optical Networks – **ICTON 2016**, University of Trento, Italy, 11-14 July 2016
  - 29 **Guest seminar, North Carolina State University**, “Innovation in Strain-Based Structural Health Monitoring”, March 18, 2016
  - 28 **Invited seminar, University of Pittsburg**, “Strain-Based Structural Health Monitoring using Long-Gauge Fiber Optic Sensors”, November 4, 2015
  - 27 **Invited tutorial**, “Methods for Structural Health Monitoring Based on Long-Gauge and Distributed Fiber Optic Sensors”, XXXI meeting of Frontiers in Optics 2015/Laser Science (**FiO/LS**), FiO 4: Fiber Optics and Optical Communications 4.2 Optical Fiber Sensors, San Jose, California, USA, October 18-22, 2015.
  - 26 **Invited presenter**, “SHM-based lifetime extension of 70-year old bridge in Gothenburg, Sweden”, **TRB Webinar: Strain-based SHM for an Informed Extension of Bridge Lifetime**, Transp. Research Board of Nat’l Academies, 10/7/2015.
  - 25 **Guest seminar, ETHZ, Switzerland**, “Advances in Strain-Based Structural Health Monitoring”, June 25, 2015.
  - 24 **Guest seminar, University of Exeter, UK**, “Innovative Strain-Based Structural Health Monitoring”, April 27, 2015.
  - 23 **Keynote lecture** “Very Dense Arrays of Sensors for Reliable and Accurate Damage Identification in Real-Life Settings”, **SHMII-7** – 7<sup>th</sup> International Conference on Structural Health Monitoring of Intelligent Infrastructure, Turin, Italy, July 1-3, 2015

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- 22 **Invited lecturer, Summer School, Chandolin, Switzerland**, “Distributed sensing: Application to large civil structures” within COST Action TD1001 “Novel and Reliable Opt. Fib. Sens. Syst. for Future Security and Safety Applic.”, Sept. 1-3, 2014.
  - 21 **Invited lecturer, University of Trento, Italy**, 3<sup>rd</sup> International Summer School on Smart Structures – From nano- to macro-scale, July 21-25, 2014
  - 20 **Invited lecturer**, “Performance of distributed fiber optic sensors in real-life and close-to-real-life settings”, **Fibre Optic Sensing Conference**, Cambridge University, UK, June 30-July 1, 2014
  - 19 **Invited seminar, Dalian University of Technology, China**, “Integrity monitoring based on 1D and 2D distributed sensing”, May 28, 2014
  - 18 **Invited lecturer, SHMII-6**, 6<sup>th</sup> International Conference on SHM of Intelligent Infrastructure, Hong-Kong, China, December 9-12, 2013
  - 17 **Invited lecturer, University of Trento, Italy**, 2<sup>nd</sup> International Summer School on Smart Structures – A Cross-Disciplinary Perspective, July 22-26, 2013
  - 16 **Guest lecturer, Tongji University, China**, Joint Seminar on SHM, January 28, 2013
  - 15 **Invited international speaker, DPRI, Kyoto University, Japan**, Intl’ Symp. of Young Researchers for “Advances in Disaster Responses to Seismic Hazards in Tall Buildings”, Dec. 18-19, 2012
  - 14 **Invited lecturer, University of Trento, Italy**, 1<sup>st</sup> International Summer School on Smart Structures – New Technologies from a Civil and Mechanical Engineering Perspective, September 3-7, 2012
  - 13 **Invited seminar, Harbin Institute of Technology, China**, “Fiber optic sensors for direct damage detection, localization, and quantification”, July 2, 2012
  - 12 **Invited speaker, Roctest/SMARTEC Webinar Series, Canada/Switzerland**, “Lessons learned: ten-year struct. health monit. of high-rise buildings”, June 06, 2012
  - 11 **Invited seminar, University of Delaware, Newark**, “Long-gauge and distributed fiber optic sensors, principles, advantages, applications”, April 16, 2012
  - 10 **Invited seminar, Swiss Federal Institute of Technology – EPFL, Lausanne, Switzerland**, “SHM Methods based on Long-gauge and Distributed FOS”, 04/02/2012
  - 9 **Keynote lecture, MEMSCON (EU), Athens, Greece**, “Monitoring Civil Structures using Fiber Optic Sensors”, the workshop “Toward Intelligent Civil Infrastructure”, March 29, 2012
  - 8 **Invited seminar, Corning Incorporated, Sullivan Park, Corning, NY**, "Long-gauge and truly distributed Fiber Optic Sensors: powerful tools for Structural Health Monitoring", January 31, 2012
  - 7 **Invited course** “Structural Health Monitoring using Fiber Optic Sensors”, **SHMII-5** – 5<sup>th</sup> International Conference on SHM of Intelligent Infrastructure, pre-conference event, Cancun, Mexico, December 11, 2011
  - 6 **Invited seminar, University of Michigan, Ann Arbor**, “Structural Health Monitoring using long-gauge and truly distributed Fiber Optic Sensors”, November 18, 2011
  - 5 **Invited seminar, IBM T.J. Watson Research Center, Yorktown Heights, NY**, “Fiber-Optic Method for Long-Term SHM of Concrete High-Rise Buildings”, Green Planet seminar series, November 4, 2011

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- 4 **Guest lecturer University of Trento, Italy**, graduate course, “Smart Structures: New technologies from a structural engineering perspective”, July 27-29, 2011
  - 3 **Invited seminar, Environmental Protection Agency (EPA)**, Edison, NJ, “Integrity monitoring of lifelines using distributed fiber optic sensors”, November 22, 2010
  - 2 **Invited lecture and paper, 2010 SPIE Smart Structures and Materials / NDE Symposium**, San Diego, CA, “SHM process as perceived through 350 projects”, March 9, 2010
  - 1 **Invited lecture**, seminar “Mesurer la performance des structures”, **EPFL, Switzerland**, Oct. 15, 2009
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#### **SPONSORED VISITS, WORKSHOPS, AND LECTURES (2009-PRESENT)**

- 27 **8<sup>th</sup> International Course on Geotechnical and Structural Monitoring (IcGSM), Fiber Optics Master Class**, NHAZCA S.R.L Rome (in collaboration with Sapienza University), Rome, Italy, December 2, 2021
- 26 **APESS 2019 – Asian-Pacific-Euro Summer School on Smart Structures Technology**, Sapienza University, Rome, Italy, July 15 – August 3, 2019
- 25 **ASCE civil engineering educational summit**, organized by American Society of Civil Engineers at Southern Methodist University, Dallas, TX, May 28-30, 2019
- 24 **One-week visit to Dalian University of Technology**, Dalian, China, Jan. 21-27, 2019
- 23 **Half-of-a-week visit to EPFL’s Future Cities Laboratory (Singapore – ETH Centre)**, Singapore, January 11-15, 2019
- 22 **7<sup>th</sup> International Summer School on Smart Structures – A Cross-Disciplinary Perspective**, University of Trento, Italy, July 16-19, 2018
- 21 **5<sup>th</sup> International Course on Geotechnical and Structural Monitoring (IcGSM)**, NHAZCA S.R.L Rome (in collaboration with Sapienza University), Rome, Italy, May 22-25, 2018
- 20 **6<sup>th</sup> International Summer School on Smart Structures – A Cross-Disciplinary Perspective**, University of Trento, Italy, July 25-28, 2017
- 19 **7<sup>th</sup> Workshop on Civil Structural Health Monitoring (CSHM-7)**, EAFIT University, Medellin, Colombia, Jun 22-23, 2017
- 18 **5<sup>th</sup> International Summer School on Smart Structures – A Cross-Disciplinary Perspective**, University of Trento, Italy, July 14-16, 2016
- 17 **FHWA – Federal Highway Administration Workshop** “Nondestructive Evaluation and Structural Health Monitoring: Implementation Guidance, Research Needs, and Integration,” NAS (Nat’l Acad. of Science) Building, Washington, DC, June 1-3, 2016
- 16 **FOEE – Frontiers of Engineering Education Symposium**, organized by *National Academy of Engineering (NAE)*, National Academies' Beckman Center, Irvine, CA, October 25-28, 2015
- 15 **4<sup>th</sup> International Summer School on Smart Structures – A Cross-Disciplinary Perspective**, University of Trento, Italy, July 6-9, 2015
- 14 **NY/NJ Regional Workshop on Critical Infrastructure Security and Resilience**, sponsored by Princeton University in collaboration with U.S. Department of Homeland Security and National Institute of Standards and Technology, May 20, 2015

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- 13 **Using Information about Buildings To Improve Cities**, organized by *NSF Research Collaboration Network on Sustainable Cities*, Rutgers University, Oct. 10-11, 2014
  - 12 **Summer school on optical fiber sensors: from research to real world**, organized by **COST** – *European Cooperation in Science and Technology*, Chandolin, Switzerland, September 1-3, 2014
  - 11 **3<sup>rd</sup> International Summer School on Smart Structures** – From nano- to macro-scale, University of Trento, Italy, July 21-25, 2014
  - 10 **One-week visit, Dalian University of Technology**, Dalian, China, May 26-30, 2014
  - 9 **2<sup>nd</sup> International Summer Schools on Smart Structures** – A Cross-Disciplinary Perspective, University of Trento, Italy, July 22-26, 2013
  - 8 **Princeton-Fung Global Forum “The Future of the City”**, Shanghai, China, January 30 – February 01, 2013
  - 7 **International Symposium of Young Researchers for “Advances in Disaster Responses to Seismic Hazards in Tall Buildings”**, organized by Disaster Prevention Research Institute (DPRI), **Kyoto University**, Japan, December 18-19, 2012
  - 6 **One-week visit, Harbin Institute of Technology**, Harbin, China, 06/30-07/05, 2012
  - 5 **1<sup>st</sup> International Summer School on Smart Structures** – New Technologies from a Civil and Mechanical Engineering Perspective, Univ. of Trento, Italy, Sep. 3-7, 2012
  - 4 **One-week visit to University of Maribor**, Slovenia, June 25-29, 2012
  - 3 **Two-month visit to University of Trento**, Italy, summer 2011
  - 2 **Grand Challenges in Earthquake Engineering Research: A Community Workshop**, organized by *National Research Council of The National Academies*, UC Irvine, CA, March 14-16, 2011
  - 1 **Government-University-Industry Research Roundtable (GUIRR) “Sensors: From Sea to Space – Innovations and Implications for the Future”**, organized by *The National Academies*, Washington, DC, February 22-23, 2010
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## SPECIAL EVENTS, NEWS, AND OUTREACH (2009-PRESENT)

- 27 **Princeton News:** research and teaching featured in Princeton’s website or Bulletin, April 2010 (**cover page**), December 2012, July 2013 (**cover page**), June 2014, March 2015, May 2017 (**cover page**), June 2018 (**cover page**), May 2019, April 2020, May 2021 (**cover page**).
- 26 **Immense media coverage** on research on Smart Kinetic Umbrellas which was highlighted numerous news outlets, including Gizmodo, Science Daily, EurekAlert!, Environmental News Network, **The Weather Channel** and **The USA Today**, 2020.
- 25 **Global Seminar GLS 263 / CEE 263 / CEE 463** “Two millennia of structural architecture in Italy” was featured in **Scientific American**, **Scala Foundation** (two articles), and Princeton Int’l (A Supplement to Princeton Alumni Weekly), Fall 2019.
- 24 **EQuad News:** research and teaching featured in the magazine and website of School of Engineering and Applied Science, Summer 2010, Summer 2013, Winter 2013, Summer 2015, Summer 2016, Winter 2017
- 23 **SHM in Action Event:** Method and associated software for integrating, accessing, and visualizing heterogeneous SHM data and metadata of structures using virtual

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- environments (with R. Napolitano \*20 and A. Blyth '18), International Workshop on Structural Health Monitoring, IWSHM2019, Stanford University, September 2019
- 22 **Building the Future – New Technological Frontiers in Cities:** Guest research presentation on Structural Health Monitoring and Heritage Structures Lab, Princeton University, Princeton, NJ, May 6, 2019
  - 21 **SHM in Action Event:** Virtual Environments for Structural Health Monitoring, Morris Island Lighthouse (with R. Napolitano \*20 and A. Blyth '18), European Workshop on SHM, EWSHM2018, Manchester, UK, July 2018
  - 20 **Living at the Intersection Symposium – Engineering and the Arts:** Heritage Structures Lab – Live Interactive Demo on Augmented Reality and Ground Penetrating Radar (with I. Morris \*20, R. Napolitano \*20, and A. Blyth '18), hosted by the Council on Science and Technology, co-sponsored by the Lewis Center for the Arts and the School of Engineering and Applied Science, April 2018
  - 19 **Princeton Innovation Forum:** Augmented Reality Software for Infrastructure Health & Performance Assessment (with graduate student R. Napolitano \*20 and undergraduate student A. Blyth '18), Keller Center, February 2018
  - 18 **Art of Science Gallery:** “Inspiration and creation” (with Prof. M. Garlock, graduate student R. Napolitano \*20 and undergraduate student I. Douglas '17), mosaic of photographs taken during the CEE 463 class trip to Cuba, 2017-2019.
  - 17 **Smart Beam**, presented at K-12 event “Materials science / nano day” as a part of Princeton Center for Complex Materials (PCCM) Fall Outreach Program, Princeton Public Library, October 28, 2017
  - 16 **SHM in Action Event:** Virtual Environments – Virtual Tour and Informational Modelling for Structural Health Monitoring, Streicker Bridge (with R. Napolitano \*20 and A. Blyth '18) IWSHM2017, Stanford University, September 2017.
  - 15 **Exhibition:** Creativity in Cuban Thin Shell Structures (co-curated with Prof. M. Garlock), Princeton Eng. Library (2017-2020). <https://cubanshells.princeton.edu/>
  - 14 **Stopping the Bridge Collapses:** New ways to detect when bridges are in trouble, **The Economist**, October 2016
  - 13 **“Life of Mind”:** Engineering: Sensing Weakness, Princeton Alumni Weekly, 2016
  - 12 **Art of Science Gallery:** “Structural Connections” (with Prof. S. Adriaenssens and undergraduate student Bennu Boyner '13), mosaic of photographs taken during the CEE 463 class trip to Germany, 2013-2014.
  - 11 **SHM in Action Event:** The Streicker Bridge Data Management (**with IBM Research**) IWSHM2013, Stanford University, September 2013.
  - 10 **Exhibition:** Evolution of German Shells – Efficiency in Form (co-curated with Prof. S. Adriaenssens), Princeton University Engineering Library (February 2013 – February 2015), *Website:* <http://shells.princeton.edu/>
  - 9 **Cover story**, Optics & Photonics News, (on research in Fiber Optic Sensors and the Streicker Bridge), in the March issue 2013
  - 8 **Green Tour Video:** Streicker Bridge monitoring project, made by Student Environmental Communication Network (SECN) for the Office of Sustainability's Green Tour for the iPrinceton App., 2013
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- 7 **Exhibition:** Conquering the Sky (co-curated with Prof. S. Adriaenssens and M. Garlock), Princeton-Fung Global Forum, Shanghai (January 2013).
  - 6 **Art of Science Gallery:** “Smiley Jack” (with graduate student Y. Yao \*15), photo of preliminary tests of Large Area Electronics based sensor, 2011-2013.
  - 5 **Breaking Ground:** Detecting when to fix a bridge, Princeton Alumni Weekly, 2012
  - 4 **Celebrate Princeton Innovation:** Sensing Sheet for High-resolution Structural Health Monitoring Over Large Structures (with Prof. N. Verma, J. Sturm, and S. Wagner), Keller Center, November 2012
  - 3 **Princeton Innovation Forum:** Sensing Sheet for High-resolution Structural Health Monitoring Over Large Structures (with Prof. N. Verma, J. Sturm, and S. Wagner), Keller Center, February 2012
  - 2 **SHM in Action Event:** The Learning Bridge – Monitoring of Tacony-Palmyra Bridge (with Drexel University), IWSHM2011, Stanford University, September 2011.
  - 1 **Smart Deployable Mast** (in collaboration with Prof. S. Adriaenssens) presented at K-12 events “Making Stuff Expo” and “Annual SEExpo”, March 2011.
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## SERVICES OUTSIDE PRINCETON UNIVERSITY (2009-PRESENT)

### SERVICES TO PROFESSIONAL SOCIETIES

For services to various professional societies, please see Page 4, Section “Professional Memberships and Services”; to avoid duplication these services are not repeated here.

### ADVISORY BOARD MEMBER

**Federal Highway Administration** Exploratory Advanced Research Project “Virtual Nondestructive Evaluation (NDE) for Highway Structures” (cooperative agreement DTFH6115H00007 with Drexel University)

**University of Perugia, Italy**, the International Faculty Board of the Doctoral Program in Civil and Environmental Engineering

### TENURE / PROMOTION CASE REFEREE

Referee for 3 national (2016, 2018, and 2020) and 2 international (2018 and 2020) tenure / promotion cases

### RESEARCH PROPOSAL AND PROJECT REVIEWER

Proposal Reviewer, *Swedish Research Council – Vetenskapsrådet, Sweden* (2021)

Proposal Reviewer, *Swiss National Science Foundation – SNF, Switzerland* (2018)

Proposal Reviewer, *Le Fonds de la Recherche Scientifique – FNRS, Brussel, Belgium* (2018)

Proposal Reviewer, Technology Gap Fund, **University of Houston, USA** (2018)

Proposal Reviewer, *Swiss National Science Foundation – SNF, Switzerland* (2016)

Proposal Reviewer, *Nat’l Office for Science & Technology Awards – NOSTA, China* (2016)

Proposal Reviewer, *Fonds de Recherche, Nature et technologie – Quebec, Canada* (2016)

Proposal Reviewer, *Natural Sci. and Eng. Research Council of Canada – NSERC* (2016)

Proposal Reviewer, CAREER proposal, *National Science Foundation - NSF* (2015)

Proposal Reviewer, Unsolicited Panel on Structural Health Monitoring, *National Science Foundation - NSF* (2015)

Proposal Reviewer, *Le Fonds de la Recherche Scientifique, FNRS, Brussels, Belgium* (2015)

Proposal Reviewer, *University of Wisconsin-Milwaukee’s Research Growth Initiative* (2015)



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Proposal Reviewer, FY 15 ERDC Program of the **US Army Corps of Engineers** (2014)  
Proposal Reviewer, Unsolicited Panel on Structural Health Monitoring, *National Science Foundation - NSF* (2014)  
Proposal Reviewer, Program Maestro-5, **National Science Center, Krakow, Poland** (2013)  
Proposal Reviewer, FY 14 ERDC Program of the **US Army** (2013)  
Proposal Reviewer, **ETH Zurich Research Grants**, Swiss Federal Institute of Technology, Zurich, Switzerland (2012)  
Proposal Reviewer, FY 12 ILIR Program of the **US Army Research Office** (2011)  
Member, *The Crazy Horse Memorial* advising group for structural health monitoring (2011)  
**Advising / consulting / collaborating with industry:** *Eloque Pty Ltd., Australia, New York City Transit, Garatti Foundation, NJ DOT, COWI, Mistras Group, Inc., IBM T.J. Watson Research Center, Corning Incorporated, SMARTEC/Roctest Inc., Weidlinger Associates, Inc., Intelligent Infrastructure Systems – Pennoni Associates Inc., PD-LD, Inc., Micron Optic, Inc., Housing and Development Board, Singapore*

## EDITOR

**Editorial Board Member**, *ASME Journal of Nondestructive Evaluation, Diagnostics and Prognostics of Engineering Systems*, 2020 – present  
**(L)Executive Editorial Board Member**, *Engineering Research Express*, 2021 – present  
**(inaugural Editorial Board Member 2019 – 2021)**  
**Editorial Board Member** of journal *Sensors*, Section for Sensor Networks, 2018 – present  
**Associate Editor** of journal *Frontiers in Built Environment*, Structural Sensing Specialty Section, *EPFL Innovation Park*, 2015-present  
**Editorial Board Member (inaugural)** of journal *Structural Monitoring and Maintenance, An International Journal*, 2014 – present  
**Editorial Board Member** of journal *Advances in Structural Engineering*, 2015 – 2019  
**(L)Editor-in-chief** of ISHMII's e-newsletter magazine "*The Monitor*", 2014-2017  
**(L)Guest Editor** of Special Issue of *Journal of Civil Structural Health Monitoring (JCSHM): Distributed and Quasi-Distributed Monitoring of Civil Infrastructure*, 2021-2022  
**(L)Guest Editor** of Special Issue of journal *Frontiers in Built Environment: Structural Health Monitoring of Bridges*, 2019  
**(L)Guest Editor** of Special Issue of journal *Sensors: Sensors and Sensor Networks for Structural Health Monitoring*, 2018  
**Guest Editor** of *Special feature on dense sensor networks for mesoscale Structural Health Monitoring, Measurement Science and Technology*, 2016-2017  
**(L)Guest Editor** of Special Issue of *JCSHM: Probabilistic SHM*, 2014-2015  
**(L)Leading Editor** of *American Concrete Institute Special Publication: Structural Health Monitoring Technologies (ACI SP-292)*, 2011-2013

**(L) = Leadership Role**

## SCIENTIFIC ADVISORY, BOARD, OR PROGRAM COMMITTEE MEMBER

**Program Committee Member**, *SPIE* Conf. on Sensors and Smart Structures Tech. for Civil, Mech., and Aerospace Systems, San Diego, CA, March 9-13, **2014**, Las Vegas, NV, March 8-12, **2015**, Portland, OR, March 25-29, **2017**, Denver, CO, 4 - 8 March **2018**, Denver, CO, 3 - 7 March **2019**, Anaheim, CA, 26 - 30 April **2020**, Long Beach, CA, 7 - 11 March **2021**, **Co-Chair 2022-2026**

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**Scientific Committee Member** of the European Workshop on Structural Health Monitoring (*EWSHM*), Bilbao, Spain, July 5-8, **2016**, Manchester, UK, July 10-13, **2018**, Palermo, Italy, July 4-7, **2022** (postponed from 2020)

**International Scientific Committee Member**, The International Conference on Structural Health Monitoring of Intelligent Infrastructure (*SHMII*), Hong Kong, China, December 10-12, **2013**, Turin, Italy, July 1-3, **2015**, Brisbane, Australia, December 5-8, **2017**, St. Louis, MI, USA, August 4-7, **2019**, Porto, Portugal, Jun 30 – July 2, **2021**

**International Organizing / Academic Technical Committee Member**, International Workshop on Structural Health Monitoring (*IWSHM*), Stanford University, September 9-11, **2011**, September 10-12, **2013**, September 1-3, **2015**, September 12-14, **2017**, September 10-12, **2019**, December 7-9, **2021**

**Scientific Board Member**, *International Summer School on Smart Structures*, Trento, Italy, 1<sup>st</sup> Edition, September 3-7, **2012**, 2<sup>nd</sup> Edition, July 22-26, **2013**, 3<sup>rd</sup> Edition, July 21-25, **2014**, 4<sup>th</sup> Edition, July 6-9, **2015**, 5<sup>th</sup> Edition, July 14-16, **2016**, 6<sup>th</sup> Edition, July 25-28, **2017**, 7<sup>th</sup> Edition, July 16-19, **2018**

**Organizing Committee**, 15th International Workshop on Advanced Smart Materials and Smart Structures Technology (ANCRiSST), July 23-26, **2021** (postponed from 2020)

**Technical Chair and Scientific Committee Member**, 7th Workshop on Civil Structural Health Monitoring (CSHM-7), EAFIT University, Medellin, Columbia, 6/22-23, 2017

**Scientific Committee Member** of the International Association for Bridge and Structural Engineering (*IABSE*) conferences on Structural Engineering, Geneva, Switzerland, September 23-25, **2015**, Vancouver, Canada, September 19-23, **2017**

**Scientific Advisory Committee Member**, the workshop “Toward Intelligent Civil Infrastructure”, European Commission funded project MEMSCON, Athens, Greece, March 29, **2012**

#### **ORGANIZER OF CONFERENCE SESSIONS, MINI-SYMPOSIA, AND SEMINARS**

- 27 **Probabilistic SHM**, special session (*in preparation*) at IWSHM2021, December 7-9, 2021, Stanford University
- 26 **Distributed and Quasi-distributed Fiber-optic and Electrical Sensors, and Associated Data Analysis and Management**, special session (*in preparation*) at IWSHM2021, December 7-9, 2021, Stanford University
- 25 **Real world applications of fibre optic sensing for infrastructure monitoring**, special session (**9 presentations**), SHMII-10, Jun 30 – July 2, 2021, Porto, Portugal
- 24 **Fiber Optic Sensors**, special session (**33 papers**) at EWSHM2022, July 4-7, 2022 (postponed from 2020), Palermo, Italy
- 23 **Distributed and Quasi-distributed Fiber-optic and Electrical Sensors, and Associated Data Analysis and Management** special session (**8 papers**) at IWSHM2019, September 9-12, 2019, Stanford University
- 22 **Value of SHM Information for Resilient Civil Infrastructure**, special session (**5 papers**) at SHMII-9, August 4-7, 2019, St. Louis, MO
- 21 **Analysis of Heritage Structures: Tools and Methods for Assessing Historic Monuments and Structures**, mini-symposium (**10 papers**) at EMI 2019, June 18-21, California Institute of Technology (Caltech)

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- 20 **Human-Machine Interfaces and Cyber Physical Systems for Visual Inspection, Non-Destructive Examination, and Structural Health Monitoring** mini-symposium (*5 papers*) at EMI 2019, June 18-21, California Institute of Technology (Caltech)
  - 19 **Dense arrays of sensors, distributed and quasi-distributed sensors, and associated data analysis and management**, special session (*6 papers*) at 7<sup>th</sup> WCSCM, July 22-25, 2018, Qingdao, China
  - 18 **Infrastructure system integrity through micro-size defect detection**, mini-symposium (*6 papers*) at EMI 2018, May 29 – June 1, 2018, MIT
  - 17 **Probabilistic SHM**, special session (*13 papers*) at EWSHM 2018, July 10-13, 2018, Manchester, UK
  - 16 **Distributed and Quasi-distributed Fiber-optic and Electrical Sensors, and Associated Ddata Analysis and Management**, special session (*15 papers*) at IWSHM 2017, September 12-14, 2017, Stanford University, Palo Alto, CA
  - 15 **Probabilistic SHM**, special session (*15 papers*) at IWSHM 2017, September 12-14, 2017, Stanford University, Palo Alto, CA
  - 14 **Infrastructure system integrity through damage precursor sensing**, mini symposium at EMI 2017, June 4-7, 2017, University of California, San Diego
  - 13 **Breakthrough technologies in Structural Health Monitoring**, special session (*6 papers*) at IABSE 2015, Geneva, Switzerland
  - 12 **Probabilistic SHM**, special session (*30 papers*) at IWSHM 2015, Stanford University, Palo Alto, CA
  - 11 **Very dense arrays of sensors: 1D, 2D, and 3D distributed and quasi-distributed sensors**, special session (*20 papers*) at IWSHM 2015, Stanford University
  - 10 **Probabilistic SHM**, mini-symposium (*10 papers*), SHMII-7, 2015, Turin, Italy
  - 9 **Probabilistic SHM 2**, invited session (*6 papers*), EWSHM 2014, Nantes, France
  - 8 **Probabilistic SHM**, mini-symposium (*12 papers*), SHMII-6, 2013, Hong-Kong, China
  - 7 **Very dense arrays of sensors**, special session (*5 papers*) at IWSHM 2013, Stanford University, Palo Alto, CA
  - 6 **Monitoring Performance during Construction**, half-day session (*8 presentations*) at American Concrete Institute (ACI) Spring Convention 2013, Minneapolis, MN
  - 5 **SHM: Uncertainty Analysis and Decision Making**, two-day mini-symposium (*32 papers*), at ICOSSAR 2013, Columbia University
  - 4 **SHM Technologies**, full-day session (*16 presentations*), ACI Fall Convention 2011, Cincinnati, OH
  - 3 **UTC Traveling Lecture Series**, three seminars, 2013-2015
  - 2 **MIRTHE Seminar Series**, one seminar, 2013
  - 1 **CEE Seminars**, *40+ seminars*, 2009-2019

#### CONFERENCE SESSION CHAIR AND MODERATOR

Numerous conferences, conventions and symposia (SPIE SS/NDE 2010-2019, SHMII-4 – 10, IWSHM 2011-2021, ICOSSAR 2013, EVACES 2012, ACI Conventions, etc.)

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## JOURNAL PAPER REVIEWER

Numerous journals, SHM, CSHM, MST, SMS, CACAIE, SCHM, ASCE, Sensors, FiBE, etc.

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## SERVICES TO PRINCETON UNIVERSITY (2009-PRESENT)

- PU *University Research Board*, 2020-present
- PU *Committee on Library and Computing*, 2019-present
- PU *Faculty Council on Teaching and Learning*, 2017 – 2019, *Chair*, 2018 – 2019
- PU *Executive Committee* for the Program in Archaeology, 2018-present.
- PU *Executive Committee* for the Program in Architecture and Engineering, 2017-2020.
- PU Panelist, *Freshman Families Weekend w. Princeton Faculty: Think for Yourself*, 2017
- PU Informal Committee Member, Faculty Search for Mech. and Aerospace Eng., 2015
- PU Panelist, *Inspiration Night: Discussion on Andreas Gursky's Shanghai (2000)*, 2015
- PU Informal Committee Member, Faculty Search for ACEE/School of Architecture, 2013
- PU Moderator, *Alumni-Faculty Forums* panel “How to Deal with our Aging Infrastructure”, 2013
- SEAS ACEE postdoctoral fellowship committee member 2021
- SEAS *Undergraduate Affairs Committee*, 2015 - present
- SEAS *Freshmen Advisor*, AY 2010/11, 2011/12, 2012/13, 2014/15, 2015/16, 2016/17, 2017/18
- SEAS Innovation Funds Reviewer (Anonymous and Wilke Family) 2014/15
- SEAS Helen Shipley Fund proposal review committee member for AY 2011/12
- CEE *Director of Undergraduate Studies*, 2015 - present
- CEE Assisting ABET Audit, Fall 2019
- CEE Academic adviser for track “Engineering and Liberal Arts”, 2019
- CEE Committee Member, Faculty Searches 2017, 2019
- CEE *Chair, Faculty Search*, 2015
- CEE Host of *six Departmental Guests* and nine *Visiting Student Research Collaborators*, 2009-2019
- CEE Seminar Series Manager, AY 2012/13 and AY 2013/2014
- CEE Seminar Organizer (*40+ invited and hosted speakers* 2009-present)
- CEE Assisting the upgrade and implementation of ABET procedures, Fall 2011

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PU=Princeton University, SEAS=School of Engineering and Applied Science, CEE=Dpt. of Civ. & Env. Eng.

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## MENTORING (2009-PRESENT)

### UNDERGRADUATE

**Summer research:** adviser to 14 students

**Junior independent work:** adviser to 24 students

Outcome: *9 journal papers and 10 conference presentations*

**Senior thesis:** adviser to 40 students (37 graduated, 3 to graduate in 2022)

Outcome: *11 journal papers and 13 conference presentations*

**Honors and awards:** *22 mentored students awarded by CEE and SEAS (32 awards in total), and honors societies (28 awards in total)*

*Two undergraduate students mentored through both Independent Study and Senior Thesis became tenure-track faculty (TU Delft, Netherlands, and Carnegie Mellon University)*

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## GRADUATE

**M.S.E. thesis:** adviser to 11 graduated students

Outcome: *8 journal papers published, and 27 conference presentations*

**Ph.D. thesis:** adviser to 11 students (8 graduated, 3 to graduate 2021-2024), co-advisor of 1 student (to graduate in 2022)

Outcome: *47 journal papers and 52 conference presentations*

**Visiting Student Research Collaborator:** host and co-advisor to 9 int'l graduate students

Outcome: *4 journal papers and 10 conference presentations*

**Honors and awards:** *11 mentored Ph.D. students won awards (15 awards in total), fellowships (8 awards in total) and attended sponsored summer schools or internships (9 awards in total)*

**Ph.D. thesis reader or committee member:** 17 students at Princeton University, 3 students at other national universities and 12 international students

*Two graduate students became tenure-track faculty (Penn State U. and New Mexico Tech.), and one graduate student served as adjunct professor (American U. in Dubai, UAE)*

## POSTDOCTORAL

**Postdoctoral researchers:** 2 postdoctoral researchers (1 of which starts on 12/01/21)

Outcome: *6 journal papers published*

*One postdoctoral researcher became tenure-track faculty (Kyungil University, Korea)*

## CURRENT COMPOSITION OF RESEARCH GROUP (AY2021-2022)

**Adviser to** 3 Ph.D. students, 1 MEng student (Electrical and Computer Engineering), 3 undergrads, 1 postdoc; **Co-adviser to** 1 Ph.D. student

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## HOBBIES

**Numismatics and history:** Research in numismatics, notaphily, and scripophily (*see the list of published papers*), Member of International Bank Note Society (IBNS), Member of Association of Friends of State Monetary Museum in Lausanne, Switzerland, and Member of Serbian and Macedonian Numismatics Societies; recipient of:

**2021: Literary Achievement Award**, paper “Alleged US forgery of 50 Serbian dinars 1942”, by International Bank Note Society

**2017: Literary Achievement Award**, Book of the Year 4<sup>th</sup> Place, by International Bank Note Society

**2016: Diploma** honoring 20 years of membership, and gratitude for outstanding contributions to the advance of numismatics and the Serbian Numismatic Society, by the Serbian Numismatic Society, Belgrade, Serbia

**2008: Medal** for significant contributions to the advance of numismatics and the Serbian Numismatic Society, by the Serbian Numismatic Society, Belgrade, Serbia

**Mathematics:** Non-Euclidian and Multi-dimensional geometries, Philosophy of Mathematics

**Graphic novels:** Pratt, Ferri, Bilal, Jodorowsky, Moebius, De Crecy, Schuiten etc.

**Travelling:** More than 40 countries

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## PUBLICATIONS

### METRIX AS OF DECEMBER 31, 2021

**Citations (all times):** Scopus: 3712; (Scopus no self-citations: 2804); Google scholar: 5095  
**h-index (all times):** Scopus: 30; (Scopus no self-citations: 27); Google scholar: 36

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## BOOKS

### IN PREPARATION (EXPECTED IN 2022)

- 3 Glisic, B. (2022). **Introduction to Strain-Based Structural Health Monitoring**, *John Wiley & Sons, Inc., Chichester*.  
- Role: Sole author

### BOOKS PUBLISHED

#### PROFESSIONAL

- 2 Glisic, B., Inaudi, D. (2007). **Fibre Optic Methods for Structural Health Monitoring**, *John Wiley & Sons, Inc., Chichester, p276 (ISBN: 978-0-470-06142-8), (2008 in USA)*.  
- Role: Lead author, corresponding author

#### HOBBY

- 1 Glisic, B. (2016). **Pečati i pečaćene novčanice notafilije Srbije 1916-1921. – Handstamps and banknotes with the handstamps of the notaphily of Serbia 1916-1921**, *Valjevo, Serbia, p436 (ISBN: 978-86-920179-0-2). Awarded by IBNS*  
- Role: Sole author
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## BOOK CHAPTERS

### PUBLISHED

- 6 Napolitano, R., Reinhart, W., Glisic, B. (2021). **Unsupervised data-driven methods for damage identification in discontinuous media**, in *Structural Health Monitoring Based on Data Science Techniques* (Cury, A., Ribeiro, D., Ubertini F., Todd, M. editors), *Springer, p474, (ISBN: 978-3-030-81715-2)*.  
- Role: Co-author
  - 5 Glisic, B., Kundu, T. (2021). **Sensing Solutions for Assessing and Monitoring Pipeline Systems**, in *Sensor technologies for civil infrastructures: performance assessment and health monitoring* (Wang, M.L., Lynch, J.P., Sohn, H., editors), 2<sup>nd</sup> Edition, *Woodhead Publishing Ltd., p875, (ISBN: 978-0-08102-706-6)*.  
- Role: Lead author, corresponding author
  - 4 Glisic, B., Verma, N. (2016). **Sensing sheets based on large-area electronics and integrated circuits**, in *Innovative Developments of Advanced Multifunctional Nanocomposites in Civil and Structural Engineering* (Loh, K.J., Nagarajaiah, S., editors), Chapter 12, pp. 281-302, *Woodhead Publishing Ltd. (Elsevier), p404, (ISBN: 978-1-78242-326-3)*.  
- Role: Lead author, corresponding author
  - 3 Glisic, B. (2014). **Sensing Solutions for Assessing and Monitoring Pipeline Systems**, in *Sensor technologies for civil infrastructures: performance assessment and health monitoring* (Wang, M.L., Lynch, J.P., Sohn, H., editors), Volume 2, Chapter 14, pp. 422-460, *Woodhead Publishing Ltd, p738, (ISBN 978-1-78242-242-6)*.  
- Role: Sole author
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- 2 Glisic, B. (2013). **Fibre optic sensors for subsea structural health monitoring**, in *Subsea Optics and Imaging* (Watson, J., Zielinski, O., editors), Chapter 17, pp. 434-470, Woodhead Publishing Ltd., p608, (ISBN: 978-0-85709-341-7).  
- Role: Sole author
  - 1 Enckell, M., Andersen, J.E., Glisic, B., Silfwerbrand, J. (2013). **New Measurement Techniques in Structural Health Monitoring**, in *Handbook of Measurement in Science and Engineering* (Kutz, M., editor), Volume 1, pp. 3-78, First Edition, John Willey & Sons, Inc., New York, p2096, (ISBN: 978-1-1183-8463-3).  
- Role: Co-author responsible for section on fiber optic sensors and applications
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## SPECIAL PUBLICATIONS

### IN PROGRESS (EXPECTED IN 2021/2022)

- 6 Feng, X., Glisic, B., Inaudi, D. (2021). **Distributed and Quasi-Distributed Monitoring of Civil Infrastructure**, *Journal of Civil Structural Health Monitoring* (articles are being submitted and reviewed).  
- Role: Leading co-editor and corresponding editor

### PUBLISHED

- 5 Glisic, B., Hoult, N.A. (2019). **Structural Health Monitoring of Bridges**, *Frontiers in Built Environment*, collection of articles in Vol. 5.  
- Role: Co-editor and corresponding editor
  - 4 Glisic, B., Zonta, D., (2018). **Sensors and Sensor Networks for Structural Health Monitoring**, *Sensors*, collection of articles in Vol. 17 and 18.  
- Role: Leading co-editor and corresponding editor
  - 3 Ubertini, F., Laflamme, S., Chatzi, E., Glisic, B., Magalhaes, F., (2016/17). **Special feature on dense sensor networks for mesoscale Structural Health Monitoring**. *Measurement Science and Technology*, collection of articles in Vol. 27 and 28.  
- Role: Co-editor
  - 2 Zonta, D., Glisic B. (guest editors), (2015). **Probabilistic Structural Health Monitoring**. *Special Issue of Journal of Civil Structural Health Monitoring*, Vol. 5, Issue 3.  
- Role: Co-editor
  - 1 Glisic, B., Suksawang, N., Malhas, F. (editors), (2013). **Structural Health Monitoring Technologies**. *ACI Special Publication SP-292*, American Concrete Institute, Reston, VA, p164 (ISBN: 978-0-87031-846-7).  
- Role: Leading co-editor and corresponding editor
- 

## PATENTS

- 1 N. Verma, B. Glisic, J. Sturm, S. Wagner, (2016). **System and method for interfacing large-area electronics with integrated circuit devices**, United States Patent, No. US 9,391,220 B2.  
- Role: Co-author responsible for the part of patent related to sensors
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## REFEREEED JOURNAL PAPERS

### ACCEPTED FOR PUBLICATION (VOLUME TO BE ASSIGNED)

- 102 Wang, S., Garlock, M., Deike, L., Glisic, B. (2022). **Feasibility of Kinetic Umbrellas as Deployable Flood Barriers during Landfalling Hurricanes**, *Journal of Structural Engineering* (*accepted, in press*).  
- Role: Co-advisor and secondary contributor

### PUBLISHED ONLINE FIRST (VOLUME TO BE ASSIGNED)

- 101 Valkonen, A., Glisic, B. (2022). **Evaluation Tool for Assessing the Influence of SHM on Decision-Maker Risk Preferences**, *Structural Health Monitoring* (Online First 2021).  
<https://doi.org/10.1177/1475921721992016>  
- Role: Advisor and secondary contributor

### PUBLISHED

- 100 Wang, S., Garlock, M., Glisic, B. (2022). **Geometric and area parameterization of N-edged hyperbolic paraboloidal umbrellas**, *Engineering Structures* 250:113499.  
<https://doi.org/10.1016/j.engstruct.2021.113499>  
- Role: Co-advisor and secondary contributor
- 99 Kumar, V., Acot, B., Aygun, L.E., Wagner, S., Verma, N., Sturm, J., Glisic, B. (2021). **Detecting, Localizing, and Quantifying Damage using Two-Dimensional Sensing Sheet: Lab Test and Field Application**, *Journal of Civil Structural Health Monitoring* 11:1055–1075. <https://doi.org/10.1007/s13349-021-00498-5>  
- Role: Advisor and secondary contributor
- 98 Morris, I., Kumar, V., Glisic, B. (2021). **Predicting material properties of concrete from ground penetrating radar attributes**, *Structural Health Monitoring* 20(5):2791-2812.  
<https://journals.sagepub.com/doi/pdf/10.1177/1475921720976999>  
- Role: Advisor and secondary contributor
- 97 Venuti, F., Domaneschi, M., Lizana, M., Glisic, B. (2021). **Finite Element Models of a Benchmark Footbridge**, *Applied Sciences* 11(19):9024.  
<https://doi.org/10.3390/app11199024>  
- Role: Secondary contributor
- 96 Hallee, M.J., Napolitano, R.K., Reinhart, W.F., Glisic, B. (2021). **Crack Detection in Images of Masonry Using CNNs**, *Sensors*, 21: 4929. <https://doi.org/10.3390/s21144929>  
- Role: Advisor, secondary contributor, and corresponding author
- 95 Wang, S., Garlock, M., Glisic, B. (2021). **Kinematics of Deployable Hyperbolic Paraboloid Umbrellas**, *Engineering Structures* 244: 112750.  
<https://doi.org/10.1016/j.engstruct.2021.112750>  
- Role: Co-advisor and secondary contributor
- 94 Oh, B.K., Glisic, B., Park, H.S. (2021). **Convolutional neural network-based damage detection method for building structures**, *Smart Structures and Systems, An International Journal*, 27(6): 903-916.  
<http://www.techno-press.org/content/?page=article&journal=sss&volume=27&num=6&ordernum=2#>  
- Role: Advisor and secondary contributor



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- 93 Kumar, V., Morris, I.M., Lopez, S.A., Glisic, B. (2021) **Identifying Spatial and Temporal Variations in Concrete Bridges with Ground Penetrating Radar Attributes**. *Remote Sensing*, 13, 1846. <https://doi.org/10.3390/rs13091846>  
- Role: Advisor and secondary contributor
- 92 Xiong, Z., Glisic, B. (2021). An inverse elastic method of crack identification based on sparse strain sensing sheet, *Structural Health Monitoring*, 20(2):532–545. <https://journals.sagepub.com/doi/abs/10.1177/1475921720939518>  
- Role: Advisor and secondary contributor
- 91 Wang, S., Notario, V., Garlock, M., Glisic, B. (2021). **Parameterization of hydrostatic behavior of deployable hyper umbrellas as flood barriers**, *Thin-Walled Structures*, 163:107650. <https://doi.org/10.1016/j.tws.2021.107650>  
- Role: Co-advisor and secondary contributor
- 90 Oh, B.K., Park, H.-S., Glisic, B. (2021). **Prediction of long-term strain in concrete structure using convolutional neural networks, air temperature and time stamp of measurements**, *Automation in Construction*, 126: 103665. <https://doi.org/10.1016/j.autcon.2021.103665>  
- Role: Advisor and secondary contributor
- 89 Wang, S., Garlock, M., Glisic, B. (2021). **Parametric Modeling of Depth-Limited Wave Spectra under Hurricane Conditions with Applications to Kinetic Umbrellas against Storm Surge Inundation**, *Water*, 13, 251. <https://doi.org/10.3390/w13030251>  
- Role: Co-advisor and secondary contributor
- 88 Oh, B.-K., Glisic, B., Kim, Y., Park, H.-S., (2020). **Convolutional neural network-based data recovery method for structural health monitoring**, *Structural Health Monitoring* 19(6): 1821–1838. <https://journals.sagepub.com/doi/full/10.1177/1475921719897571>.  
- Role: Advisor and secondary contributor
- 87 Glisic, B. (2020). **New in old: simplified equations for linear-elastic symmetric arches and insights on their behaviors**, *Journal of the International Association for Shell and Spatial Structures*, 61(3): 227-240. <https://doi.org/10.20898/j.iass.2020.006>  
- Role: Sole author
- 86 Napolitano, R., Hess, M., Glisic, B. (2020). **Quantifying the differences in documentation and modeling levels for building pathology and diagnostics**, *Archives of Computational Methods in Engineering* 27: 1135–1152. <https://doi.org/10.1007/s11831-019-09350-y>.  
- Role: Advisor and secondary contributor
- 85 Garlock, M., Glisic, B. (2020). **Thin Shell Concrete Structures of Félix Candela and Max Borges Jr.**, *Journal of the International Association for Shell and Spatial Structures*, 61(1): 51-58. <https://doi.org/10.20898/j.iass.2020.203.031>  
- Role: Secondary contributor
- 84 Napolitano, R., Glisic, B. (2020). **Hybrid physics-based modeling and data-driven method for diagnostics of masonry structures**, *Computer-Aided Civil and Infrastructure Engineering*, 35(5): 483-494. <https://onlinelibrary.wiley.com/doi/full/10.1111/mice.12548>.  
- Role: Advisor and secondary contributor
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- 83<sup>HA</sup> Wang, S., Garlock, M., Glisic, B. (2020). **Hydrostatic Response of Deployable Hyperbolic Paraboloid 1 Umbrellas as Coastal Armor**, *Journal of Structural Engineering* 146(6), art. no. 04020096 (17pp) (*the most read paper in the month in which it was published; ASCE Moisseiff Award*). <https://ascelibrary.org/doi/abs/10.1061/%28ASCE%29ST.1943-541X.0002619>  
- Role: Co-advisor and secondary contributor
- 82 Aygun, L.E., Kumar, V., Weaver, C., Gerber, M.J., Wagner, S., Verma, N., Glisic, B., Sturm, J.C. (2020), **Large-area resistive strain sensing sheet for structural health monitoring**, *Sensors* 20, art. no. 1386 (15pp). <https://www.mdpi.com/1424-8220/20/5/1386>  
- Role: Advisor and secondary contributor
- 81 Oh, B.-K., Glisic, B., Park, S., Park, H.-S. (2020). **Neural network-based seismic response prediction model for building structures using artificial earthquakes**, *Journal of Sound and Vibration*, 468, art. No. 115109.  
- Role: Advisor and secondary contributor
- 80 Douglas, I., Napolitano, R., Garlock, M., Glisic, B. (2020). **Cuba's National School of Ballet: Redefining a Structural Icon**, *Engineering Structures* 204, art. no. 110040 (10pp). <https://doi.org/10.1016/j.engstruct.2019.110040>.  
- Role: Advisor and secondary contributor
- 79 Napolitano, R., Jennings, C., Feist, S., Rettew, A., Sommers, G., Smagh, H., Hicks, B., Glisic, B. (2019). **Tool development for digital reconstruction: A framework for a database of historic Roman construction materials**, *Journal of Cultural Heritage* 40: 113–123. <https://doi.org/10.1016/j.culher.2019.05.007>.  
- Role: Advisor and secondary contributor
- 78 Kliewer, K., Glisic, B. (2019). **A comparison of strain-based methods for the evaluation of the relative displacement of beam-like structures**, *Frontiers in Built Environment* 5, art. no. 118 (18pp). <https://doi.org/10.3389/fbuil.2019.00118>.  
- Role: Advisor and secondary contributor
- 77 Napolitano, R., Hess, M., Glisic, B. (2019). **The foundation walls of the Baptistery di San Giovanni: A combination of laser scanning and finite-distinct element, modeling to ascertain damage origins**, *Journal of Architectural Heritage* 13(7): 1180–1193. (*paper featured in "Princeton News"*)  
- Role: Advisor and secondary contributor
- 76<sup>HS</sup> Oh, B.K, Glisic, B., Kim, Y., and Park, H.S. (2019). **Convolutional Neural Network-based Wind-induced Response Estimation Model for Tall Buildings**, *Computer-Aided Civil and Infrastructure Engineering*, 34: 843–858 (*among top 10% of most downloaded papers in the 12 months*). <https://doi.org/10.1111/mice.12476>.  
- Role: Advisor and secondary contributor
- 75 Napolitano, R., Glisic, B. (2019). **Understanding the function of bonding courses in masonry construction: An investigation with mixed numerical methods**, *Journal of Cultural Heritage*, 39: 120–129.  
- Role: Advisor and secondary contributor
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- 74 Blyth, A., Napolitano, R., Glisic, B. (2019). **Documentation, Structural Health Monitoring, and Numerical Modeling for Damage Assessment of the Morris Island Lighthouse under Environmental Loading**, *Philosophical Transactions A*, 377: 20190002 (19pp).  
- Role: Advisor and secondary contributor
- 73<sup>H4</sup> Abdel-Jaber, H., Glisic, B. (2019). **Monitoring of prestressing forces in prestressed concrete structures - an overview**, *Structural Control and Health Monitoring*, 26(8):e2374 (27pp) (*among top 10% of most downloaded papers in the 12 months*). <https://doi.org/10.1002/stc.2374>.  
- Role: Advisor and secondary contributor
- 72 Glisic, B. (2019). **Comparative study of distributed sensors for strain monitoring of pipelines**, *Geotechnical Engineering (SEAGS)*, 50(2):28-35.  
- Role: Sole author
- 71 Morris, I., Cleary, J., Gonciar, A., Glisic, B. (2019). **Ground Penetrating Radar Investigation of Corvin Castle (Castelul Corvinilor)**, *Heritage*, 2, 1316–1349.  
- Role: Advisor and secondary contributor
- 70 Napolitano, R., Liu, Z., Sun, C., Glisic, B. (2019). **Combination of image-based documentation and augmented reality as a cyber physical system for infrastructure**, *Frontiers in Built Environment*, 8, art. no. 50 (14 pp).  
- Role: Advisor and secondary contributor
- 69 Morris, I., Abdel-Jaber, H., Glisic, B. (2019). **Quantitative Attribute Analyses with Ground Penetrating Radar for Infrastructure Assessments and Structural Health Monitoring**, *Sensors*, 19(4), art. no. 1637 (17 pp).  
- Role: Advisor and secondary contributor
- 68 Oh, B.K., Glisic, B., Lee, S.H., Chob, T., Park, H.S. (2019). **Comprehensive investigation of embodied carbon emissions, costs, design parameters, and serviceability in optimum green construction of two-way slabs in buildings**, *Journal of Cleaner Production*, 222:11-128.  
- Role: Advisor and secondary contributor
- 67 Li, X., Glisic, B. (2019). **Integrating finite element modeling with sensing system for monitoring composite structures using the method of neutral axis**, *Structural Engineering International*, 29(1): 8-17.  
- Role: Advisor and secondary contributor
- 66 Abdel-Jaber, H., Glisic, B. (2019). **Monitoring of long-term prestress losses in prestressed concrete structures using fiber optic sensors**, *Structural Health Monitoring*, 18(1): 254-269.  
- Role: Advisor and secondary contributor
- 65<sup>C2</sup> Napolitano, R., Hess, M., Glisic, B. (2019). **Integrating Non-Destructive Testing, Laser Scanning, and Numerical Modeling for Structural Health Assessment: The Room of the Elements**, *Heritage*, 2(1), 151–168 (*figure from paper used as cover page of issue*).  
- Role: Advisor and secondary contributor
- 64 Napolitano, R., Glisic, B. (2019). **Methodology for diagnosing crack patterns in masonry structures using photogrammetry and distinct element modeling**,
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- Engineering Structures*, 181(1): 519-528.  
- Role: Advisor and secondary contributor
- 63 Bolognani, D., Verzobio, A., Tonelli, D., Cappello, C., Glisic, B., Zonta, D., Quigley, J. (2018). **IWSHM 2017: Quantifying the benefit of SHM: what if the manager is not the owner?** *Structural Health Monitoring*, 17(6): 1393-1409.  
- Role: Secondary contributor
- 62 Gerber, M., Weaver, C., Aygun, L.E., Verma, N., Sturm, J.C., Glisic, B. (2018). **Strain Transfer for Optimal Performance of Sensing Sheet**, *Sensors*, 18(6),art.no.1907 (16pp).  
- Role: Advisor and secondary contributor
- 61 Napolitano, R., Glisic, B. (2018). **Minimizing the adverse effects of bias and low repeatability precision in photogrammetry software through statistical analysis**, *Journal of Cultural Heritage*, 31: 46–52.  
- Role: Advisor and secondary contributor
- 60 Reilly, J., Glisic, B. (2018). **Identifying time periods of minimal thermal gradient for temperature driven structural health monitoring**, *Sensors*, 18(3), art. no. 734. (21pp).  
- Role: Advisor and secondary contributor
- 59 Cappello, C., Zonta, D., Ait Laasri, H., Glisic, B., Wang, M. (2018). **Calibration of elasto-magnetic sensors on in-service cable-stayed bridges for stress monitoring**, *Sensors* 18(2), art. no. 466 (15pp).  
- Role: Advisor and secondary contributor
- 58 Napolitano, R., Scherer, G., Glisic, B. (2018). **Virtual tours and informational modeling for conservation of cultural heritage sites**, *Journal of Cultural Heritage*, 29: 123–129.  
- Role: Advisor and secondary contributor
- 57 Napolitano, R., Blyth, A., Glisic, B. (2018). **Virtual Environments for Visualizing Structural Health Monitoring Sensor Networks, Data, and Metadata**, *Sensors*, 18(1), art. no. 243 (14pp).  
- Role: Advisor and secondary contributor
- 56 Pour-Ghaz, M., Wilson, J., Spragg, R., Nadukuru, S.S., Kim, J., O'Connor, S.M., Byrne, E.M., Sigurdardottir, D.H., Yao, Y., Michalowski, R.L., Lynch, J.P., Green, R.A., Bradshaw, A.S., Glisic, B., Weiss, J., (2018). **Performance and Damage Evolution of Plain and Fiber Reinforced Segmental Concrete Pipelines subjected to Transverse Permanent Ground Displacement**, *Structure and Infrastructure Eng.*, 14(2): 232–246.  
- Role: Secondary contributor
- 55 Kliewer, K., Glisic, B. (2017). **Normalized Curvature Ratio for Damage Detection in Beam-Like Structures**, *Frontiers in Built Environment - Structural Sensing*, 3, art. no. 50 (13pp).  
- Role: Advisor and secondary contributor
- 54 Michiels, T., Napolitano, R., Adriaenssens, S., Glisic, B. (2017). **Comparison of thrust line analysis, limit state analysis and distinct element modeling to predict the collapse load and collapse mechanism of a rammed earth arch**, *Engineering Structures*, 148, 145–156.  
- Role: Secondary contributor
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- 53 Sigurdardottir, D.H., Stearns, J., Glisic, B. (2017). **Uncertainty in determination of the deformed shape of prismatic beams using double integration of curvature**, *Smart Materials and Structures*, 26, art. no. 075002 (12pp).  
- Role: Advisor and secondary contributor
- 52 Domaneschi, M., Sigurdardottir, D., Glišić, B. (2017). **Damage detection on output-only monitoring of dynamic curvature in composite decks**, *Structural Monitoring and Maintenance*, 4(1): 1-16.  
- Role: Secondary contributor
- 51 Li, X., Glisic, B. (2017). **Evaluating early-age shrinkage effects in steel-concrete composite beam-like structures**, *Steel Construction*, 10(1):47-53.  
- Role: Advisor and secondary contributor
- 50 Abdel-Jaber, H, Glisic, B. (2016). **Systematic method for the validation of long-term temperature measurements**, *Smart Materials and Structures*, 25, art. no. 125025 (12pp).  
- Role: Advisor and secondary contributor
- 49 Tung, S-T., Glisic, B., (2016). **Sensing sheet: the response of full-bridge strain sensors to thermal variations for detecting and characterizing cracks**, *Measurement Science and Technology*, 27, art no. 124010 (16pp).  
- Role: Advisor and secondary contributor
- 48 Abdel-Jaber, H., Glisic, B., (2016). **Structural Health Monitoring Methods for the Evaluation of Prestressing Forces and Prerelease Cracks Methods**, *Frontiers in Built Environment - Structural Sensing*, 2, art. no. 20 (9pp).  
- Role: Advisor and secondary contributor
- 47 Cappello, C., Zonta, D., Glišić, B. (2016). **Expected utility theory for monitoring-based decision making**, *Proceedings of the IEEE*, 104(8): 1647-1661.  
- Role: Secondary contributor
- 46 Glisic, B., Yao, Y., Tung, S-T., Wagner, S., Sturm, J.C., Verma, N. (2016). **Strain Sensing Sheets for Structural Health Monitoring based on Large-area Electronics and Integrated Circuits**, *Proceedings of the IEEE*, 104(8): 1513-1528.  
- Role: Primary contributor
- 45 Sezen, M., Register, J.T., Yao, Y., Glisic, B., Loo, Y-L. (2016). **Eliminating Piezoresistivity in Flexible Conducting Polymers for Accurate Temperature Sensing under Dynamic Mechanical Deformations**, *small*, 12(21): 2832–2838.  
- Role: Secondary contributor
- 44<sup>C1</sup> Mehrotra, A., Glisic, B. (2015). **Deconstructing the Dome: A Structural Analysis of the Taj Mahal**, *Journal of the International Association for Shell and Spatial Structures*, 56(4):269-284 (*figure from paper used as cover page of issue*).  
- Role: Advisor and secondary contributor
- 43 Sigurdardottir, D.H., Glisic, B. (2015). **The neutral axis location for structural health monitoring - an overview**, *Journal of Civil Structural Health Monitoring*, 5(5):703-713.  
- Role: Advisor and secondary contributor
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- Role: Advisor and secondary contributor
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- Role: Secondary contributor
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- Role: Secondary contributor
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- Role: Advisor and secondary contributor
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- Role: Advisor and secondary contributor
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- Role: Advisor and secondary contributor
- 33 Zonta, D., Glisic, B., Adriaenssens, S. (2014). **Value of Information: impact of monitoring on decision making**, *Structural Control and Health Monitoring*, 21(7), pp. 1043–1056.  
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- Role: Advisor and secondary contributor
- 31 Tung, S-T., Yao, Y., Glisic, B. (2014). **Sensing Sheet: The Sensitivity of Thin-Film Full-Bridge Strain Sensors for Crack Detection and Characterization**, *Measurement Science and Technology*, 25(7), art. no. 075602 (14pp).  
- Role: Advisor, secondary contributor and corresponding author
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- Role: Advisor and secondary contributor
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- 26 Rodrigues, C., Inaudi, D., Glisic, B. (2013). **Long-gauge fiber optic sensors: performance comparison and applications**, *International Journal of Lifecycle Performance Engineering*, 1(3), pp. 209 - 233.  
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- Role: Advisor and secondary contributor
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- Role: Advisor and secondary contributor
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- Role: Sole author
- 12 Enckell, M., Glisic, B., Myrvoll, F., Bergstrand, B. (2011). **Evaluation of a large scale bridge strain, temperature and crack monitoring with distributed fibre optic sensors**, *Journal of Civil Structural Health Monitoring* 1, pp. 37-46.  
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- Role: Secondary contributor and corresponding author
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- Role: Co-contributor responsible for experimental part of research
  - 8 Viviani, M., Glisic, B., Scrivener, K.L., Smith, I.F.C. (2008). **Equivalency points: Predicting concrete compressive strength evolution in three days**, *Cement and Concrete Research* 38 (8-9), pp. 1070-1078.  
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  - 7 Viviani, M., Glisic, B., Smith, I.F.C. (2007). **Separation of thermal and autogenous deformation at varying temperatures using optical fiber sensors**, *Cement and Concrete Composites* 29 (6), pp. 435-447.  
- Role: Advisor and secondary contributor
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- Role: Advisor and secondary contributor
  - 4<sup>N</sup> Glisic, B., Inaudi, D., Nan, C. (2002). **Piles monitoring during the axial compression, pullout and flexure test using fiber optic sensors**, *Transportation Research Record* (1808), pp. 11-20 (*Nominated for K.B. Woods Award at TRB 81<sup>st</sup> Annual Meeting*).  
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- Role: Secondary contributor
  - 2 Inaudi, D., Glisic, B., Fakra, S., Billan, J., Perez, J.G., Redaelli, S., Scandale, W. (2001). **Development of a displacement sensor for the CERN-LHC superconducting cryodipoles**, *Measurement Science and Technology* 12 (7), pp. 887-896.  
- Role: Primary contributor (experimental part of research) and corresponding author
  - 1 Glišić, B., Simon, N. (2000). **Monitoring of Concrete at Very Early Age Using Stiff SOFO Sensor**, *Cement and Concrete Composites* 22 (2), pp. 115-119.  
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## NON-REFEREED PAPERS (STANDARDS, REPORTS, MAGAZINES)

- 14 Schumacher, T.,...Glisic, B.,...et. al (ACI Committee 444: Structural Health Monitoring), (2021). **Report on Structural Health Monitoring (SHM) Technologies for Concrete Structures**, *ACI PRC-444.2-21*, American Concrete Institute, Reston, VA (115pp). [https://www.concrete.org/store/productdetail.aspx?ItemID=444221&Language=English&Units=US\\_Units](https://www.concrete.org/store/productdetail.aspx?ItemID=444221&Language=English&Units=US_Units)  
- Role: Sole author on two chapters (*Strain Sensors* and *Fiber Optic Sensors*)
- 13 Daum, W., ... Glisic, B., ... et. al (IEC SC86C Committee on Fibre optic systems and active devices), (2016/2020). **Fibre optic sensors - Part 1-1: Strain measurement - Strain sensors based on fibre Bragg gratings**, *Standard IEC 61757-1-1:2020*, International Electrotechnical Commission, Geneva, Switzerland (108pp). <https://webstore.iec.ch/publication/64212>  
- Role: co-contributor
- 12 Choe, L., Ramesh, S., Hoehler, M., Seif, M., Hoehler, M., Bundy, M., Reilly, J., Glisic, B. (2019). **Compartment Fire Experiments on Long-Span Composite-Beams with Simple Shear Connections. Part 2: Test Results**. *NIST Technical Note 2055*, National Institute of Standards and Technology, U.S. Department of Commerce, Gaithersburg, MD (147pp). <https://doi.org/10.6028/NIST.TN.2055>  
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- 11 Ramesh, S., Choe, L., Seif, M., Hoehler, M., Grosshandler, W., Sauca, A., Bundy, M., Luecke, W., Bao, Y., Klegseth, M., Chen, G., Reilly, J., Glisic, B. (2019). **Compartment Fire Experiments on Long-Span Composite-Beams with Simple Shear Connections. Part 1: Experimental Design and Beam Behavior at Ambient Temperature**, *NIST Technical Note 2054*, Gaithersburg, MD (159pp). <https://doi.org/10.6028/NIST.TN.2054>  
- Role: co-contributor
- 10 Duke, J.C., ... Glisic, B., ... et. al (TRB Joint Subcommittee on Structural Health Monitoring), (2019). **Structural Monitoring**, *Transportation Research Circular E-C246*, Transportation Research Board of National Academies, Washington, D.C. (46pp). <http://onlinepubs.trb.org/onlinepubs/circulars/ec246.pdf>  
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- 9 Daum, W., ... Glisic, B., ... et. al (IEC SC86C Committee on Fibre optic systems and active devices), (2016). **Fibre optic sensors - Part 2-2: Temperature measurement - Distributed sensing**, *Standard IEC 61757-2-2:2016*, International Electrotechnical Commission, Geneva, Switzerland (108pp). <https://webstore.iec.ch/publication/24780>  
- Role: co-contributor
- 8 Jayapalan, J.K., ... Glisic, B., ... et. al (ASTM Committee F36, TG F36.10 for standardization of Distributed Optical Fiber Sensing Systems), (2014/2020). **Standard Practice for Use of Distributed Optical Fiber Sensing Systems for Monitoring the Impact of Ground Movements During Tunnel and Utility Construction on Existing Underground Utilities**, *Standard ASTM F3079 - 14(2020)*, ASTM International, West Conshohocken, PA (19pp). <https://www.astm.org/Standards/F3079.htm>  
- Role: co-contributor
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- 7 **Living laboratory, Bridge Design and Engineering**, B. Glisic, *Issue 59, 2<sup>nd</sup> quarter, May 2010, pp. 76-77.*  
- Role: Sole author
  - 6 **Integrity monitoring of fracture critical bridges**, B. Glisic, D. Inaudi, *Structural Integrity and Life*, Volume 10, No. 2, Pages 135-141, July 2010.  
- Role: Primary contributor
  - 5<sup>A</sup> **Distributed fibre-optic sensing for long-range monitoring of pipeline**, D. Inaudi, B. Glisic, *The Monitor – International Society for Structural Health Monitoring of Intelligent Infrastructure*, pp. 35-41, March 2008 (*paper awarded at SHMII-3 conference*).  
- Role: Co-contributor responsible for experimental part of the research
  - 4 **Distributed Fiber Optic Sensors: Novel Tools for the Monitoring of Large Structures**, D. Inaudi, B. Glisic, *Geotechnical Instrumentation News*, 25(3): 8-12, Sep. 2007.  
- Role: Co-contributor responsible for experimental part of the research
  - 3 **Overview of Fiber Optic Sensing Technologies for Geotechnical Instrumentation and Monitoring**, D. Inaudi, B. Glisic, *Geotech. Instrumentation News*, 25(3): 4-8, Sep. 2007.  
- Role: Secondary contributor
  - 2 **Whole lifespan monitoring of the Versoix Bridge**, B. Glisic, D. Inaudi, S. Vurpillot, in *"Monitoring and safety evaluation of existing concrete structures, state-of-the-art report"*, *fib Bulletin 22, p. 237-243, Int'l Federation for Structural Concrete – fib, March 2003.*  
- Role: Primary contributor
  - 1 **Monitoring A Subterranean Structure with the SOFO System**, B. Glisic, M. Badoux, J.-P. Jaccoud, D. Inaudi, *Tunnel Management International magazine, ITC Ltd, 2(8): 22-27, June 2000.*  
- Role: Primary contributor
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## CONFERENCE PAPERS

### STATEMENT

Prior to my appointment at Princeton University (in 2009), I was employed in industry (2000-2008), where the policy was to publish mostly in conferences where live presentations and face-to-face meetings represented important means of outreach and marketing to potential clients. Journal papers were not considered as important because they were read mostly by the academic community, which represented a relatively small part of my former employer's business. Consequently, during that time, I published 80 conference papers (and only eight journal papers). To make the list of publications concise, emphasizing the contributions created while at Princeton University, only the list of conference papers published since 2009 is included. The complete list can be found in my website or delivered upon request.

### CONFERENCE PAPERS (2009 – PRESENT)

- 126 Hughes, M., Heubner, C., Celli, S., Garlock, M., Ottoni, F., Del Curto, D., Glisic, B. (2021). **Shrouded by time and tile: A structural investigation for preservation of Cuba's historic School of Ballet classroom and theatre domes**, *IASS2020/21 – Annual Symposium of the Int'l Association for Shell and Spatial Structures and Surrey 7<sup>th</sup> Inspiring the Next Generation*, Guildford, UK, August 23-27, 2021.  
- Role: Advisor and secondary contributor
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- 125 Wang, S., Garlock, M., Glisic, B. (2021). **Structural parameterization of Kinetic Umbrellas under hydrostatic inundation**, *IASS2020/21 – Annual Symposium of the Int'l Association for Shell and Spatial Structures and Surrey 7<sup>th</sup> Inspiring the Next Generation*, Guildford, UK, August 23-27, 2021.  
- Role: Co-advisor and secondary contributor
- 124 Venuti, F., Domaneschi, M., Mulas, M.G., Glisic, B., Cimellaro, G.P. (2021). **A benchmark footbridge for SHM and serviceability assessment under pedestrian excitation**, *IABMAS2021 - The Tenth International Conference on Bridge Maintenance, Safety and Management*, Sapporo, Japan, April 11 – 15, 2021.  
- Role: Secondary contributor
- 123 Valkonen, A., Glisic, B. (2021). **Neural Network Survival Analysis of Concrete Bridge Decks**, *SHMII-10 – 10th Int'l Conference on Structural Health Monitoring of Intelligent Infrastructure*, Porto, Portugal, Jun 30- Jul. 2, 2021.  
- Role: Advisor and secondary contributor
- 122 Pereira, M., Glisic, B. (2021). **Long-term Prediction of Rheological Effects in Concrete Structures Using Probabilistic Neural Networks**, *SHMII-10 – 10th Int'l Conference on Structural Health Monitoring of Intelligent Infrastr.*, Porto, Portugal, Jun 30- Jul. 2, 2021.  
- Role: Advisor and secondary contributor
- 121 Xie, B.T., Zhao, X.F., Glisic, B., Li, H. (2021). **Research on strain measurement using smartphone with a mobile phone microscope**, *Earth and Space 2021: Materials, Structures, Dynamics, and Control in Extreme Environments - Selected Papers from the 17th Int'l Conf. on Eng., Sci., Constr., and Operations in Challenging Env.*, pp. 542-547.  
- Role: Secondary contributor
- 120 Morris, I., Kumar, V., Glisic, B. (2021). **Comparing predicted in situ 8-year concrete strength by ground penetrating radar attributes and maturity method**, *Proceedings of SPIE - The International Society for Optical Engineering*, 11592,1159208.  
- Role: Advisor and secondary contributor
- 119 Kumar, V., Aygun, L.E., Gerber, M., Weaver, C., Wagner, S., Verma, N., Sturm, J.C., Glisic, B. (2021). **Field evaluation of sensing sheet prototype exposed to cracking**, *8th Civil Structural Health Monitoring Workshop (CSHM)*, March 29-31, 2021 (postponed from 2020).  
- Role: Advisor and secondary contributor
- 118 Glisic, B. (2021). **Simplified Formulae for Reactions in Typical Linear Elastic Arches**, *12<sup>th</sup> International Conference on Structural Analysis of Historical Constructions - SAHC*, September 29-30, 2021, Barcelona, Spain (postponed from 2020).  
- Role: Sole author
- 117 Morris, I., Kumar, V., Glisic, B. (2019). **Updates on material property estimation for concrete using attribute analysis and ground penetrating radar**, *AGU Fall Meeting*,
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- San Francisco, CA, USA, December 9-13, 2019.  
- Role: Advisor and secondary contributor
- 116<sup>5</sup> Glisic, B. (2019). **Long-term Monitoring of Civil Structures and Infrastructure Using Long-Gauge Fiber Optic Sensors**, *IEEE Sensors Conference 2019*, Montreal, Canada, October 27-30, 2019. (*track invited talk* for Conference Track 5: Optical Sensors)  
- Role: Sole author
- 115 Glisic, B. (2019). **Simplified closed-form expressions for horizontal reactions in linear elastic arches under self-weight**, *60th Anniversary Symposium of the International Association for Shell and Spatial Structures*, Barcelona, Spain, October 7-10, 2019.  
- Role: Sole author
- 114 Garlock, M.E.M., Adriaenssens, S., Glisic, B. (2019). **Quintessentially Billington: The Evolution of Structural Art Teaching at Princeton**, *60th Anniversary Symposium of the Int'l Association for Shell and Spatial Structures*, Barcelona, Spain, Oct. 7-10, 2019.  
- Role: Advisor and secondary contributor
- 113 Kliewer, K., Melcer, E, Glisic, B. (2019). **A Co-Word Analysis of the Structural Health Monitoring Field**, *Proceedings of the 12th International Workshop on Structural Health Monitoring (IWSHM 2019)*, Stanford, CA, USA, September 9-12, 2019.  
- Role: Advisor and secondary contributor
- 112 Reilly, J., Glisic, B. (2019). **Thermal Behavior of a Structure Characterized Through Three-Dimensional Temperature Signatures for a Temperature Driven Method of Structural Health**, *Monitoring Proceedings of the 12th International Workshop on Structural Health Monitoring (IWSHM 2019)*, Stanford, CA, USA, September 9-12, 2019.  
- Role: Advisor and secondary contributor
- 111 Glisic, B. (2019). **Hundred years of strain sensing in civil structural health monitoring**, *Proceedings of the 12th International Workshop on Structural Health Monitoring (IWSHM 2019)*, Stanford, CA, USA, September 9-12, 2019.  
- Role: Sole author
- 110 Valkonen, A. Glisic, B. (2019). **Measurement of Individual Risk Preference for Decision-Making in SHM**, *Proceedings of the 12th International Workshop on Structural Health Monitoring (IWSHM 2019)*, Stanford, CA, USA, September 9-12, 2019.  
- Role: Advisor and secondary contributor
- 109 Morris, I., Kumar, V., White, C.E., Glisic, B. (2019). **Experimental approaches to estimate physical properties of concrete using ground penetrating radar**, *2019 IABSE Congress – International Association for Bridge and Structural Engineers*, New York, NY, USA, September 6-9, 2019.  
- Role: Advisor and secondary contributor
- 108 Blyth, A., Napolitano, R., Glisic, B. (2019). **Quantitative crack assessment through numerical simulation and manifold learning**, *2019 IABSE Congress – International*

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- Association for Bridge and Structural Engineers*, New York, NY, USA, Sept. 6-9, 2019.  
- Role: Advisor and secondary contributor
- 107 Napolitano, R., Moshirfar, A., Liu, Z., Glisic, B. (2009). **Virtual Tours and Augmented Reality for Direct Data Integration**, *2019 IABSE Congress – International Association for Bridge and Structural Engineers*, New York, NY, USA, September 6-9, 2019.  
- Role: Advisor and secondary contributor
- 106 Napolitano, R., Hess, M., Glisic, B. (2019). **Understanding the effects of documentation detail on diagnostics of historic structures**, *Proc. of The International CIPA Conference on Digital Workflows for Heritage Preservation*, Avila, Spain, September 1-4, 2019.  
- Role: Advisor and secondary contributor
- 104<sup>AB</sup> Kumar, V., Glisic, B. (2019). Numerical Modeling of Early Age Cracks in Concrete for Long-Term Evaluation of Structure, *SHMII-9 – 9<sup>th</sup> Int'l Conf. on Struct. Health Monitoring of Intelligent Infrastr.*, St. Louis, MO, USA, Aug. 4-7, 2019 (**3<sup>rd</sup> place, best poster award**).  
- Role: Advisor and secondary contributor
- 103 Blyth, A., Napolitano, R., Glisic, B. (2019). **Structural health monitoring in workflows for preservation engineering**, *SHMII-9 – 9<sup>th</sup> International Conference on Structural Health Monitoring of Intelligent Infrastructure*, St. Louis, MO, USA, August 4-7, 2019.  
- Role: Advisor and secondary contributor
- 102 Vivek Kumar, V., Aygun, L.E., Verma, N., Sturm, J.C., Glisic, B. (2019). **Sensing sheets based on large area electronics for structural health monitoring of bridges**, *Proc. SPIE 10970, Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems 2019*, 10970:109702G.  
- Role: Advisor and secondary contributor
- 101 Napolitano, R., Liu, Z., Sun, C., Glisic, B. (2019). **Virtual tours, augmented reality, and informational modeling for visual inspection and structural health monitoring**, *Proc. SPIE 10970, Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems 2019*, 10970:1097006.  
- Role: Advisor and secondary contributor
- 100 Douglas, I., Napolitano, R., Garlock, M., Glisic, B. (201). **Reconsidering the Vaulted Forms of Cuba's National School of Ballet**, *RILEM Bookseries, Volume 18, Pages 2150-2158 (11th International Conference on Structural Analysis of Historical Constructions - SAHC, September 11-13, 2018, Cusco, Peru)*.  
- Role: Advisor and secondary contributor
- 99 Napolitano, R., Lansing, L., Glisic, B. (2019). **Understanding the Function of Roman Bonding Courses: A Numerical Approach**, *RILEM Bookseries Volume 18, Pages 1798-1806 (11th SAHC, September 11-13, 2018, Cusco, Peru)*.  
- Role: Advisor and secondary contributor
- 98 Napolitano, R., Hess, M., Coe-Scharff, R., Glisic, B. (2019). **Numerical Modeling of Crack Propagation in Masonry Structures**, *RILEM Bookseries, Volume 18, Pages 826-*
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- Role: Advisor and secondary contributor

- 97<sup>14</sup> Napolitano, R., Blyth, A., Glisic, B. (2018). **Long-term SHM data and metadata management using informational modeling and virtual reality environments**, *7th World Conference on Structural Control and Monitoring (WCSCM2018)*, Qingdao, China, July 24, 2018 (*session-opening invited paper*).
- Role: Advisor and secondary contributor
- 96 Sigurdardottir, D., Glisic, B. (2018). **Estimation of error in deformed shape determined using double integration of curvature**, *7th World Conference on Structural Control and Monitoring (WCSCM2018)*, Qingdao, China, July 24, 2018.
- Role: Advisor and secondary contributor
- 95 Morris, I., Glišić, B., Gonciar, A. (2018). **Archaeological Ground Penetrating Radar Surveys under Variable Soil Moisture: Visual and Numerical Results**, *17th International Conference on Ground Penetrating Radar, GPR 2018*, 8441655.
- Role: Advisor and secondary contributor
- 94 Reilly, J., Glisic, B. (2018). **Formulation of 3D temperature signatures for a temperature driven structural health monitoring**, *Proc. of 8<sup>th</sup> European Workshop on Structural Health Monitoring (EWSHM)*, 10-13 July, Manchester, UK.
- Role: Advisor and secondary contributor
- 93<sup>A5</sup> Reilly, J., Glisic, B. (2018). **Tracking changes in coefficient of thermal expansion through the lifespan of a concrete bridge**, *Engineering Mechanics Institute Conference*, Boston, May 29 – June 1 (*2nd place, best paper award*).
- Role: Advisor and secondary contributor
- 92 Marek, R., Glisic, B. (2018). **Response of long-gauge strain sensors in proximity of force application point**, *Proc. SPIE 10598, Sensors and Smart Structures Technologies for Civil, Mechanical, and Aerospace Systems 2018*, 105981H.
- Role: Advisor and secondary contributor
- 91 Napolitano, R., Blyth, A., Glisic, B. (2017). **Spherical Imaging and Virtual Environments for Structural Health Monitoring**, *Proc. of SHMII-8, 8th International Conference on Structural Health Monitoring of Intelligent Infrastructure*, 5-8 December, Brisbane, Australia.
- Role: Advisor and secondary contributor
- 90<sup>A4</sup> Reilly J., Yarnold, M., Murphy, B., Glisic, B. (2017). **Evaluation of the Coefficient of Thermal Expansion for a Temperature Driven Method of Structural Health Monitoring**, *Proc. of SHMII-8, 8th International Conference on Structural Health Monitoring of Intelligent Infrastructure*, 5-8 December, Brisbane, Australia (*best presentation award*).
- Role: Advisor and secondary contributor
- 89 Domaneschi, M., Cimellaro, G-P., Kliewer, K., Glisic, B. (2017). **Modal identification of a flexible footbridge using output-only methods**, *Proc. of SHMII-8, 8th Intl. Conf. on Struct. Health Monitoring of Intelligent Infrastructure*, 5-8 December, Brisbane, Australia.
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- Role: Advisor and secondary contributor
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- Role: Advisor and secondary contributor
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- Role: Advisor and secondary contributor
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- Role: Advisor and secondary contributor
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- 75 Napolitano, R., Blyth, A., Scherer, G., Glisic, B. (2017). **Spherical Imaging and Virtual Environments for Conservation of Heritage Sites**. *National Park Service, National Center for Preservation Technology and Training, 3d Documentation Summit*, 18-20 April, New Orleans, USA.  
- Role: Advisor and secondary contributor
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- Role: Advisor and secondary contributor
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- Role: Advisor and secondary contributor
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- 51<sup>A3</sup> Abdel-Jaber, H., Glisic, B. (2015). **Monitoring of pre-release cracks in prestressed concrete using fiber optic sensors**, *Proceedings of SPIE - The International Society for Optical Engineering 9437-71* (*third award at 2015 SPIE SS/NDE conference*).  
- Role: Advisor and secondary contributor
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- 48 Yao Y., Glisic, B. (2015). **Sensing sheets based on large area electronics for fatigue crack detection**, *Proc. of SPIE - The Int'l Society for Optical Engineering 9435-15*.  
- Role: Advisor and secondary contributor
- 47 Abdel-Jaber, H., Glisic, B. (2014). **Evaluation of Prestressing Forces using Long-Gauge Fiber Optic Sensors**, *6<sup>th</sup> World Conference on Structural Control and Monitoring (6WCSCM)*, July, 15-17, 2014, Barcelona, Spain, paper on conference CD.  
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- 44 Sigurdardottir, D., Glisic, B. (2014). **Examples of damage detection in real-life settings based on the position of the neutral axis**, *7<sup>th</sup> European Workshop on Structural Health Monitoring (EWSHM)*, Nantes, France, July 8-11, 2014, paper on conference CD.  
- Role: Advisor and secondary contributor
- 43 Glisic, B., Garlock, M., Adriaenssens, S. (2014). **Innovative education in engineering: a social and multi-dimensional exploration of structures**, *Structures Congress 2014 - Proceedings of the 2012 Structures Congress*, Boston, Massachusetts, April 3-5, 2014.  
- Role: Co-contributor and corresponding author
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- 41 Tung, S-T.E., Yao, Y., Glisic, B. (2014). **Crack identification based on thin-film full-bridge strain sensors**, *Proceedings of SPIE - The International Society for Optical Engineering 9061 - 33*.  
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- Role: Advisor and secondary contributor
- 35 Sigurdardottir, D., Glisic, B. (2013). **Measures of Structural Art: A Case Study Using Streicker Bridge**, *In 7th New York City Bridge Conference*, New York City, NY.  
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- 33 Zonta, D., Bruschetta, F., Zandonini, R., Pozzi, M., Wang, M., Zhao, Y., Inaudi, D., Glisic, B. (2013). **Analysis of monitoring data from cable-stayed bridge using sensor fusion techniques**, *Proceedings of SPIE - The Int'l Society for Optical Eng.* 8692, 869229.  
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- 28 Yarnold, M., Moon, F., Aktan, A.E., Glisic, B. (2012). **Structural monitoring of the Tacony-Palmyra Bridge using video and sensor integration for enhanced data interpretation**, *Bridge Maintenance, Safety, Management, Resilience and Sustainability - Proceedings of the Sixth International Conference on Bridge Maintenance, Safety and Management*, pp. 2168-2172, July 8-12, Stresa, Italy.  
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- Role: Secondary contributor
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- 21 Glisic, B., Yao, Y., Oberste-Ufer, K. (2011). **Assessment of buried pipelines health condition using distributed fiber optic sensors**, *5th Int'l Conf. on Structural Health Monitoring of Intelligent Infrastructure (SHMII-5)*, December 11-15, Cancún, México.  
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- Role: Advisor, secondary contributor, and corresponding author
  - 15 Zonta, D., Glisic, B., Pozzi, M., Inaudi, D., Lau, J.M., Fong, C.C. (2011). **Analysis of high rise building lifespan monitoring data using Bayesian logic**, *SPIE Smart Structures/NDE 2011*, Paper No. 7981-166, March 6-10, San Diego, CA, USA.  
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- Role: Primary contributor and corresponding author
  - 9 Glisic, B., Inaudi, D., Casanova, N. (2010). **SHM process as perceived through 350 projects**, *Proceedings of SPIE - The International Society for Optical Engineering 7648*, art. no. 76480P, March 7-11, 2010, San Diego, CA, USA (*invited paper and presentation*).  
- Role: Primary contributor and corresponding author
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  - 7 Glisic, B., Inaudi, D. (2009). **Short-gage and long-gage sensors: applicability and interpretation of measurement**, *The 7<sup>th</sup> International Workshop on Structural Health Monitoring – 2009*, pp. 1659-1666, September 9-11, 2009, Stanford University, USA.  
- Role: Primary contributor and corresponding author
  - 6 Inaudi, D., Manetti L., Glisic, B. (2009). **Integrated Systems for Structural Health Monitoring**, D. Inaudi, L. Manetti, B. Glisic, *SHMII-4, The 4<sup>th</sup> International Conference on Structural Health Monitoring of Intelligent Infrastructure*, Paper on CD, July 22-24, 2009, Zurich, Switzerland.  
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- Role: Secondary contributor

#### PAPERS IN NUMISMATICS AND NOTAPHILY (HOBBY)

- 15<sup>A</sup> Glišić, B. (2020). **Alleged US forgery of 50 Serbian Dinars 1942**, *Journal of International Bank Note Society – IBNS*, Vol. 59, No. 4, Pages 44-50 (**Literary Achievement Award, by IBNS**).  
- Role: Sole author
- 14 Glišić, B. (2013). **Classification of hand-stamps from banknotes of foreign countries after the World War I, which belongs to Serbian notaphily III (Klasifikacija pečata sa novčanica stranih zemalja nakon Prvog svetskog rata, koji pripadaju srpskoj notafiliji III)**, "dinar" - *Journal of Serbian Numismatic Society*, No. 32, Pages 32-36, Belgrade (In Serbian).  
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- Role: Sole author
- 12 Glišić, B. (2008). **Valjevo's certificate from 1950's printed in ZIN (Valjevska zahvalnica iz 1950-tih štampana u ZIN-u)**, "dinar" - *Journal of Serbian Numismatic Society*, No. 30, Pages 45-47, Belgrade (In Serbian).  
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