

# Ilias (Elias) DIMITRAKOPOULOS

## Resume

### PERSONAL DATA

#### ADDRESS

Department of Civil and Environmental Engineering  
The Hong Kong University of Science and Technology  
(HKUST), Office: 3587

Clear Water Bay, Kowloon, Hong Kong, China

#### CONTACT INFO

email: [ilias@ust.hk](mailto:ilias@ust.hk)

office phone: (852) 2358 5975

office fax: (852) 2358 1534

home page: <http://ilias.people.ust.hk>

### EDUCATION

(2004 - 2009)

#### DOCTOR OF PHILOSOPHY

Aristotle University of Thessaloniki (AUTH), Greece  
Polytechnic School-Civil Engineering Department.

#### *Thesis title:*

Seismic Response Analysis of Concrete Bridges with  
Unilateral Contact Phenomena

#### *Advisors:*

Prof. Andreas J. KAPPOS and Prof. Nicos MAKRIS

(2002 - 2003)

#### M.Sc. CIVIL ENGINEERING

Seismic Design of Structures and Engineering Seismology  
Aristotle University of Thessaloniki, Greece  
Polytechnic School-Civil Engineering Department.

(1996 - 2002)

#### DIPLOMA CIVIL ENGINEERING

Aristotle University of Thessaloniki, Greece  
Polytechnic School-Civil Engineering Department.  
(5 year-program) Major: Structural engineering

### EMPLOYMENT

(2017- TO DATE)

#### ASSOCIATE PROFESSOR

HKUST, Dept of Civil and Environmental Engineering

(2011 - 2017)

#### ASSISTANT PROFESSOR

HKUST, Dept of Civil and Environmental Engineering

(2010 - 2011)

#### POST-DOCTORAL RESEARCHER

Research Associate, University of Cambridge, UK  
Engineering Department, Structures Group

(2005)

#### VISITING RESEARCHER

Centre of Post-Graduate Training and Research in  
Earthquake Engineering and Engineering Seismology.  
Rose School, Pavia, Italy, Supervisor: Dr. Rui PINHO

### RESEARCH INTERESTS

- (nonlinear) structural dynamics
- Vehicle-Bridge dynamic Interaction
- non-smooth dynamics with unilateral contact.
- bamboo structures and bamboo engineering
- seismic response of structures and earthquake engineering,
- dimensional analysis

## RESEARCH

RECOGNITION  
(2020)

- Ranked within **top 1.8** percentile of career-long citation impact up until the end of 2019 and **top 0.7** percentile of citation impact during the single calendar year 2019 among the top 100,000 researchers across all fields according to Ioannidis et al (2020) “*Updated science-wide author databases of standardized citation indicators*”, PLOS Biology

AWARDS  
(2021)

- **Grand Award** in R&D Award Category of the Hong Kong Institution of Engineers’ Structural Division Excellence Award 2021 for our publication: Stoura CD, Dimitrakopoulos EG\* (2020) “MDOF Extension of the Modified Bridge System method for vehicle-bridge interaction”, *Nonlinear Dynamics*

(2019)

- **Finalist of Structural Excellence Award** 2019, Hong Kong Institution of Engineers - the Structural Division and the Institution of Structural Engineers (Joint Structural Division, JSD) for our publication: Giouvanidis AI, Dimitrakopoulos EG (2018) “Rocking amplification and strong-motion duration” *Earthquake Engineering and Structural Dynamics*

(2017)

- **Commendation Merit** R&D Structural Excellence Award 2017, HKIE - the Structural Division and the Institution of Structural Engineers (Joint Structural Division, JSD) for our publication: Zeng Q, Dimitrakopoulos EG (2016) “Seismic Response Analysis of an Interacting Curved Bridge-Train System Under Frequent Earthquakes” *Earthquake Engineering and Structural Dynamics*

FUNDED  
PROJECTS

1. RGC 16213321 – General Research Fund (2021-2024, 36 months) “*Multi-culm Bamboo Structural Members*”, budget: **911k HK\$**
2. HKUST – Sponsorship Scheme for Targeted Strategic Partnerships (SSTSP) (29/03/2019 - 28/03/2021, 24 months) “*Identification of Dynamic Characteristics of Bridges using Robotic Vehicles*” PIs: Elias DIMITRAKOPOULOS, Lambros KATAFYGIOTIS, and Prof Sriram NARASIMHAN (Univ. of Waterloo), budget: **90k HK\$**
3. RGC 16244116 – General Research Fund (2016-2019, 36 months) “*Reliability of Coupled High-Speed Trains and Bridges Under Earthquakes*”, budget: **675k HK\$**
4. HKUST25Projects– “*Low-cost High-impact Pedestrian Bamboo Bridges*”, (2016-2017, 12 months) amount funded (through crowdfunding) **55k HK\$**.
5. UGC – Direct Allocation Grant. (Nov. 2014 – Oct 2016) “*A hybrid seismic analysis framework for bridges with joints*”, budget: **50k HK\$**

AS PI  
(PRINCIPAL  
INVESTIGATOR)

FUNDED  
PROJECTS

6. RGC 639613 – Early Career Scheme (2014-2016, 36 months) “*Seismic Behaviour of Segmental Bridge Bents Rocking on a Rigid Base*”, budget: **790k HK\$**

AS PI  
(PRINCIPAL  
INVESTIGATOR)

7. UGC – Direct Allocation Grant. (Jun. 2012 – May 2014) “*Seismic Isolation of Bridges*”, budget: **50k HK\$**
8. UGC – Direct Allocation Grant. (Jun. 2012 – May 2013) “*A novel non-smooth approach for the seismic response analysis of skew bridges with in-deck joints*”, budget: **100k HK\$**

AS CO-I  
(CO-  
INVESTIGATOR)

1. RGC – Theme-based Research Scheme (2015-2020, 60 months) “*Smart Urban Water Supply System ([Smart UWSS](#)): Developing a Sustainable Environment*”. Project Coordinator (PC): Chair Professor GHIDAUI Mohamed S. (Civil and Environmental Engineering, HKUST), amount funded overall over 33.225 million HK\$, amount funded for the particular task (fluid-structure interaction) **1.20 million HK\$**

OTHER  
FUNDING  
AS PI  
(2011 -TO  
DATE)

1. Contract Research (2021, 3 months) “*Conventional Material Strength Tests on Two Species of Bamboo*”, budget: **216k HK\$**
2. *Hong Kong PhD Fellowship Scheme* (2017/18, 36 months), total amount **750k HK\$**, Student: Ms. Charikleia STOURA (PF16-07238)
3. *Post-Doctoral Fellowship (PDF) Matching Fund* (2017-2018), total amount **162 HK\$**, Researcher: Dr. Qing ZENG
4. *Hong Kong PhD Fellowship Scheme* (2016/17, 36 months), total amount **750k HK\$**, Student: Mr. Cheng Ning LOONG (co-supervised with Prof. CC Chang)
5. *Post-Doctoral Fellowship (PDF) Matching Fund* (2014-2015), total amount **162 HK\$**, Researcher: Dr. Themelina PARASKEVA

RESEARCH  
JOURNAL  
PUBLICATIONS

- J41 Mouka T, **Dimitrakopoulos EG\***, Lorenzo R (2022) “Insight into the behavior of bamboo culms subjected to bending” *Journal of the Royal Society Interface*, 06 April 2022, 19 (189), 20210913  
DOI: [10.1098/rsif.2021.0913](https://doi.org/10.1098/rsif.2021.0913).
- J40 Pradhan NPN, Paraskeva TS, **Dimitrakopoulos EG\*** (2022) “Simulation and experimental verification of an original full-scale bamboo truss” *Engineering Structures* (Elsevier), vol 256, 1 April 2022, 113965.  
DOI: [10.1016/j.engstruct.2022.113965](https://doi.org/10.1016/j.engstruct.2022.113965)
- J39 Jin N, Dertimanis VK, Chatzi EN, **Dimitrakopoulos EG\***, Katafygiotis L (2022) “Subspace identification of bridge dynamics via traversing vehicle measurements” *Journal of Sound and Vibration* (Elsevier), vol 523, April 2022, 116690. DOI: [10.1016/j.jsv.2021.116690](https://doi.org/10.1016/j.jsv.2021.116690)
- J38 Lorenzo R\*, Mimendi L, Yang D, Li H, Mouka Th, **Dimitrakopoulos EG** (2021) “Non-linear behaviour and failure mechanism of bamboo poles in bending” *Construction & Building Materials* (Elsevier), vol. 305, 25 October 2021, 124747. DOI: [10.1016/j.conbuildmat.2021.124747](https://doi.org/10.1016/j.conbuildmat.2021.124747)
- J37 Stoura CD, Paraskevopoulos E, **Dimitrakopoulos EG\***, Natsiavas S. (2021) “A Dynamic Partitioning Method to solve the vehicle-bridge interaction problem” *Computers & Structures* (Elsevier), vol 251, 15 July 2021, 106547.  
DOI: [10.1016/j.compstruc.2021.106547](https://doi.org/10.1016/j.compstruc.2021.106547)
- J36 Pradhan NPN, **Dimitrakopoulos EG\*** (2021) “Pilot study on capacity based design of multi-culm bamboo axial members with dowel-type connections” *Journal of Structural Engineering* (ASCE), vol. 147 (5).  
DOI: [10.1061/\(ASCE\)ST.1943-541X.0002995](https://doi.org/10.1061/(ASCE)ST.1943-541X.0002995)
- J35 Jin N, Yang YB, **Dimitrakopoulos EG\***, Paraskeva TS, Katafygiotis L (2021) “Application of Short-time Stochastic Subspace Identification to Estimate Bridge Frequencies from a Traversing Vehicle” *Engineering Structures* (Elsevier), vol. 230 111688.  
DOI: [10.1016/j.engstruct.2020.111688](https://doi.org/10.1016/j.engstruct.2020.111688)
- J34 Mouka Th, **Dimitrakopoulos EG\*** (2021) “Simulation of embedment phenomena on bamboo culms via a modified foundation modelling approach” *Construction & Building Materials* (Elsevier), vol. 275 122048.  
DOI: [10.1016/j.conbuildmat.2020.122048](https://doi.org/10.1016/j.conbuildmat.2020.122048)
- J33 Stoura CD, **Dimitrakopoulos EG\*** (2020) “MDOF Extension of the Modified Bridge System method for vehicle-bridge interaction” *Nonlinear Dynamics* (Springer), vol. 102(4), 2103-2123.  
DOI: [10.1007/s11071-020-06022-6](https://doi.org/10.1007/s11071-020-06022-6)
- J32 Stoura CD, **Dimitrakopoulos EG\*** (2020) “A Modified Bridge System method to characterize and decouple vehicle-bridge interaction” *Acta Mechanica*, vol. 231(9), 3825-3845. DOI: [10.1007/s00707-020-02699-3](https://doi.org/10.1007/s00707-020-02699-3)

(name) =  
PG student  
under my  
supervision

(name) =  
Post-Doctoral  
researcher  
under my  
supervision

(name) =  
FYP student  
under my  
supervision

(name)\* =  
corresponding  
author

**RESEARCH  
JOURNAL  
PUBLICATIONS  
(CONT'D)**

(name) =  
PG student  
under my  
supervision

(name) =  
Post-Doctoral  
researcher  
under my  
supervision

(name) =  
FYP student  
under my  
supervision

(name)\* =  
corresponding  
author

- J31 Stoura CD, **Dimitrakopoulos EG\*** (2020) “Additional damping effect on bridges because of vehicle-bridge interaction” *Journal of Sound and Vibration* (Elsevier), vol. 476. DOI: [10.1016/j.jsv.2020.115294](https://doi.org/10.1016/j.jsv.2020.115294)
- J30 Pradhan NPN, Paraskeva TS, **Dimitrakopoulos EG\*** (2020) “Quasi-static reversed cyclic loading testing and characterization of multi-full-culm bamboo to steel connections” *Journal of Building Engineering* (Elsevier), vol. 27, 100983. DOI: [10.1016/j.jobbe.2019.100983](https://doi.org/10.1016/j.jobbe.2019.100983)
- J29 Paraskeva TS, Pradhan NPN, Stoura CD, **Dimitrakopoulos EG\*** (2019) “Monotonic loading testing and characterization of new multi-full culm bamboo to steel connections” *Construction & Building Materials* (Elsevier), vol. 201, 473-483. DOI: [10.1016/j.conbuildmat.2018.12.198](https://doi.org/10.1016/j.conbuildmat.2018.12.198)
- J28 Loong CN, Chang CC\*, **Dimitrakopoulos EG** (2018) “Circuit nonlinearity effect on the performance of an electromagnetic energy harvester-structure system” *Engineering Structures* (Elsevier), vol. 173, 449-45. DOI: [10.1016/j.engstruct.2018.06.090](https://doi.org/10.1016/j.engstruct.2018.06.090)
- J27 Zeng Q\*, **Dimitrakopoulos EG** (2018) “Vehicle-Bridge Interaction Analysis Modelling Derailment during Earthquakes” *Nonlinear Dynamics* (Springer), vol. 93 (4), 2315–2337. DOI: [10.1007/s11071-018-4327-6](https://doi.org/10.1007/s11071-018-4327-6)
- J26 Giouvanidis AI, **Dimitrakopoulos EG\*** (2018) “Rocking amplification and strong-motion duration” *Earthquake Engineering and Structural Dynamics* (Wiley), vol. 15, 2273–2304. DOI: [10.1002/eqe.3058](https://doi.org/10.1002/eqe.3058)
- J25 Zeng Q, Stoura CD, **Dimitrakopoulos EG\*** (2018) “A Localized Lagrange Multipliers Approach for the Problem of Vehicle-Bridge-Interaction” *Engineering Structures* (Elsevier), vol. 168, 82-92. DOI: [10.1016/j.engstruct.2018.04.040](https://doi.org/10.1016/j.engstruct.2018.04.040)
- J24 Shi Z, **Dimitrakopoulos EG\*** (2017) “Comparative evaluation of two simulation approaches of deck-abutment pounding in bridges” *Engineering Structures* (Elsevier), vol. 148, 541-551. DOI: [10.1016/j.engstruct.2017.06.077](https://doi.org/10.1016/j.engstruct.2017.06.077)
- J23 Paraskeva TS\*, Grigoropoulos G, **Dimitrakopoulos EG** (2017) “Design and experimental verification of easily constructible bamboo footbridges for rural areas” *Engineering Structures* (Elsevier), vol. 143, 540-548. DOI: [10.1016/j.engstruct.2017.04.044](https://doi.org/10.1016/j.engstruct.2017.04.044)
- J22 Giouvanidis AI, **Dimitrakopoulos EG\*** (2017) “Seismic Response of Rocking Bridge Bents with Flag-Shaped Hysteretic Behavior” *Journal of Engineering Mechanics* (ASCE), vol. 143 (5), 04017008. DOI: [10.1061/\(ASCE\)EM.1943-7889.0001206](https://doi.org/10.1061/(ASCE)EM.1943-7889.0001206)
- J21 Shi Z, **Dimitrakopoulos EG\*** (2017) “Nonsmooth Dynamics Prediction of Measured Bridge Response Involving Deck-Abutment Pounding” *Earthquake Engineering & Structural Dynamics* (Wiley), vol. 46(9), 1431–1452. DOI: [10.1002/eqe.2863](https://doi.org/10.1002/eqe.2863)

**RESEARCH  
JOURNAL  
PUBLICATIONS  
(CONT'D)**

(name) =  
PG student  
under my  
supervision

(name) =  
Post-Doctoral  
researcher  
under my  
supervision

(name) =  
FYP student  
under my  
supervision

(name)\* =  
corresponding  
author

- J20 Giouvanidis AI, **Dimitrakopoulos EG\*** (2017) “Nonsmooth Dynamic Analysis of Sticking Impacts in Rocking Structures” *Bulletin of Earthquake Engineering* (Springer), vol. 15, 2273–2304. DOI: [10.1007/s10518-016-0068-4](https://doi.org/10.1007/s10518-016-0068-4)
- J19 **Dimitrakopoulos EG\***, Fung EDW (2016) “Closed-form Rocking Overturning Conditions for a Family of Pulse Ground Motions” *Proceedings of the Royal Society A*, vol. 472, 2196. DOI: [10.1098/rspa.2016.0662](https://doi.org/10.1098/rspa.2016.0662)
- J18 Paraskeva TS\*, **Dimitrakopoulos EG**, Zeng Q (2016) “Dynamic Vehicle-Bridge Interaction Under Simultaneous Vertical Earthquake Excitation” *Bulletin of Earthquake Engineering* (Springer), vol. 15 (1), 71–95. DOI: [10.1007/s10518-016-9954-z](https://doi.org/10.1007/s10518-016-9954-z)
- J17 Zeng Q, Yang YB, **Dimitrakopoulos EG\*** (2016) “Dynamic response of high speed vehicles and sustaining curved bridges under conditions of resonance” *Engineering Structures* (Elsevier), vol. 114, 61–74. DOI: [10.1016/j.engstruct.2016.02.006](https://doi.org/10.1016/j.engstruct.2016.02.006)
- J16 Zeng Q, **Dimitrakopoulos EG\*** (2016) “Seismic Response Analysis of an Interacting Curved Bridge-Train System Under Frequent Earthquakes” *Earthquake Engineering and Structural Dynamics* (Wiley), vol. 45 (7), 1129–1148. DOI: [10.1002/eqe.2699](https://doi.org/10.1002/eqe.2699)
- J15 Chrysostomou CZ, Kyriakides N, Papanikolaou V, Kappos AJ\*, **Dimitrakopoulos EG**, Giouvanidis AI (2015) “Vulnerability assessment and feasibility analysis of seismic strengthening of school buildings” *Bulletin of Earthquake Engineering* (Springer), vol. 13 (12), 3809–3840. DOI: [10.1007/s10518-015-9791-5](https://doi.org/10.1007/s10518-015-9791-5)
- J14 **Dimitrakopoulos EG\***, Paraskeva TS (2015) “Dimensionless Fragility Curves for Rocking Response to Near-Fault Excitations” *Earthquake Engineering and Structural Dynamics* (Wiley), vol. 44 (12), 2015–2033. DOI: [10.1002/eqe.2571](https://doi.org/10.1002/eqe.2571)
- J13 **Dimitrakopoulos EG\***, Giouvanidis AI (2015) “Seismic Response Analysis of the Planar Rocking Frame” *Journal of Engineering Mechanics* (ASCE), vol. 141 (7), 04015003. DOI: [10.1061/\(ASCE\)EM.1943-7889.0000939](https://doi.org/10.1061/(ASCE)EM.1943-7889.0000939)
- J12 **Dimitrakopoulos EG\***, Zeng Q (2015) “A Three-dimensional Dynamic Analysis Scheme for the Interaction between Trains and Curved Railway Bridges” *Computers & Structures* (Elsevier), vol. 149; 43–60. DOI: [10.1016/j.compstruc.2014.12.002](https://doi.org/10.1016/j.compstruc.2014.12.002)
- J11 DeJong MJ\*, **Dimitrakopoulos EG** (2014) “Dynamically Equivalent Rocking Structures” *Earthquake Engineering and Structural Dynamics* (Wiley), vol. 43 (10); 1543–1563. DOI: [10.1002/eqe.2410](https://doi.org/10.1002/eqe.2410)
- J10 **Dimitrakopoulos EG** (2013) “Nonsmooth Analysis of the Impact Between Successive Skew Bridge-segments” *Nonlinear Dynamics* (Springer), vol. 74 (4); 911–928. DOI: [10.1007/s11071-013-1012-7](https://doi.org/10.1007/s11071-013-1012-7)

**RESEARCH  
JOURNAL  
PUBLICATIONS  
(CONT'D)**

(name) =  
PG student  
under my  
supervision

(name) =  
Post-Doctoral  
researcher  
under my  
supervision

(name) =  
FYP student  
under my  
supervision

(name)\* =  
corresponding  
author

- J9 **Dimitrakopoulos EG\***, DeJong MJ (2012) “Revisiting the Rocking Block: Closed-form Solutions and Similarity Laws” *Proceedings of the Royal Society A*, 468; 2294-2318. DOI: [10.1098/rspa.2012.0026](https://doi.org/10.1098/rspa.2012.0026)
- J8 **Dimitrakopoulos EG**, DeJong MJ\* (2012) “Overturning of Retrofitted Rocking Structures Under Pulse-type Excitations” *Journal of Engineering Mechanics* (ASCE), vol.138 (8), 963–972. DOI: [10.1061/\(ASCE\)EM.1943-7889.0000410](https://doi.org/10.1061/(ASCE)EM.1943-7889.0000410)
- J7 **Dimitrakopoulos EG** (2011) “Seismic Response Analysis of Skew Bridges with Pounding Deck-Abutment Joints” *Engineering Structures* (Elsevier), vol.33 (3), 813-826. DOI: [10.1016/j.engstruct.2010.12.004](https://doi.org/10.1016/j.engstruct.2010.12.004)
- J6 **Dimitrakopoulos EG\***, Makris N, Kappos AJ (2011) “Dimensional Analysis of the Earthquake-induced Pounding between Inelastic Structures” *Bulletin of Earthquake Engineering* (Springer), vol.9 (2), 561-579. DOI [10.1007/s10518-010-9220-8](https://doi.org/10.1007/s10518-010-9220-8)
- J5 **Dimitrakopoulos EG**, Makris N, Kappos AJ (2010) “Dimensional Analysis of the Earthquake Response of a Pounding Oscillator” *Journal of Engineering Mechanics* (ASCE), vol.136 (3), 299-310. DOI: [10.1061/\(ASCE\)0733-9399\(2010\)136:3\(299\)](https://doi.org/10.1061/(ASCE)0733-9399(2010)136:3(299))
- J4 **Dimitrakopoulos EG** (2010) “Analysis of a Frictional Oblique Impact Observed in Skew Bridges” *Nonlinear Dynamics* (Springer), vol.60, 575-595. DOI: [10.1007/s11071-009-9616-7](https://doi.org/10.1007/s11071-009-9616-7)
- J3 **Dimitrakopoulos EG**, Makris N\*, Kappos AJ (2009) “Dimensional Analysis of the Earthquake-induced Pounding between Adjacent Structures” *Earthquake Engineering and Structural Dynamics* (Wiley), vol.38 (7), 867-886. DOI: [10.1002/eqe.872](https://doi.org/10.1002/eqe.872)
- J2 **Dimitrakopoulos EG\***, Kappos AJ, Makris N (2009) “Dimensional Analysis of the Earthquake Response of Yielding and Pounding Structures for Records Without Distinct Pulses” *Soil Dynamics and Earthquake Engineering* (Elsevier), vol.29 (7), 1170-1180. DOI: [10.1016/j.soildyn.2009.02.006](https://doi.org/10.1016/j.soildyn.2009.02.006)
- J1 Kappos AJ\*, **Dimitrakopoulos EG** (2008) “Feasibility of pre-earthquake strengthening of buildings based on cost-benefit and life-cycle cost analysis, with the aid of fragility curves” *Natural Hazards* (Springer), vol.45, 33-54. DOI: [10.1007/s11069-007-9155-9](https://doi.org/10.1007/s11069-007-9155-9)

- RESEARCH**
- B3 **Shi Z, Dimitrakopoulos EG** (2017) “Comparative study of deck-abutment interaction with different contact models”, Edited By Nawawi Chouw, Rolando P. Orense, Tam Larkin, *Seismic Performance of Soil-Foundation-Structure Systems; Selected Papers from the International Workshop on Seismic Performance of Soil-Foundation-Structure Systems*, Auckland, New Zealand, 21-22 November 2016. Taylor& Francis Group CRC Press
- B2 **Dimitrakopoulos EG, DeJong MJ** (2013) “Seismic Overturning of Rocking Structures with External Viscous Dampers”, M. Papadrakakis et al. (eds.), *Computational Methods in Earthquake Engineering, Computational Methods in Applied Sciences 30*, Springer, Chapter ID: 12, DOI 10.1007/978-94-007-6573-3\_12
- B1 Kappos AJ, **Dimitrakopoulos EG**, (2013) “Analysis and assessment of a seismically isolated bridge”, in *Seismic Control Systems* (edited by S. Syngellakis), WIT Press 2013, 143-152 (ISBN: 978-1-84564-672-1).
- KEYNOTES**
- K2 **Dimitrakopoulos EG** (9-11/Nov/2018) “Experimental Characterization of New Multi-full-culm Bamboo to Steel Connections”, *SBMS1 2018, 1st World Symposium on Sustainable Bio-Composite Materials and Structures*, 9-11 November 2018, Nanjing Forestry University, Nanjing, China
- K1 **Dimitrakopoulos EG** (26/May/2015) “Seismic Response Analysis of a Coupled Vehicle- Bridge System”, *COMPDYN 2015, 5th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering*, 26 May 2015, Crete Island, Greece
- INVITED TALKS**
- T4 **Dimitrakopoulos EG** (1/Oct/2021) “Connections of multi-culm bamboo structural members”, *The 4th Bamboo in the Urban Environment Symposium – Newcastle University UK (invitation only online workshop)* Organizers: Prospective bamboo Research trends for Sustainable and Economical construction (PARSE)
- T3 **Dimitrakopoulos EG** (21-22/Nov/2016) “Comparative Study of Deck-Abutment Interaction with Different Contact Models”, *International Workshop on Seismic Performance of Soil-Foundation-Structure Systems (invitation only workshop)*, the University of Auckland, New Zealand. Organizers: Professors Nawawi CHOUW, Rolando ORENSE, Tam LARKIN and Michael PENDER
- T2 **Dimitrakopoulos EG** (4-8/Sep/2016) “Seismic Response Analysis of a Coupled Vehicle- Bridge System”, Collaborative Conference on Earthquake Science and Engineering 2016 (CCESE2016) Budapest, Hungary. Conference chair Professor Zhiming Wang
- T1 **Dimitrakopoulos EG** (22-25/Jun/2016) “On the Safety of High-Speed Trains Running on Bridges During Earthquakes”, *42nd Risk, Hazard & Uncertainty Workshop*, 22-25 June 2016 Hydra Island, Greece. Workshop organizer Professor Dimitris VAMVATSIKOS (NTUA)



## RESEARCH

INVITED  
SEMINARS

- S6 **Dimitrakopoulos EG** (25/Nov/2021) “Vehicle–Bridge Interaction: high-speed railways and vehicle scanning of bridges”, cive webinar, dept of civil infrastructure and environmental engng, KHALIFA UNI., ABU DABHI
- S5 **Dimitrakopoulos EG** (15/Sep/2017) “On the Nonsmooth Modelling of Rocking Behaviour”, Civil Engineering Seminar Series at the Department of Structures for Engineering and Architecture, UNIVERSITY of NAPLES FEDERICO II, Italy.
- S4 **Dimitrakopoulos EG** (22/Dec/2014) “Seismic Response and Fragility of Rocking Structures”, NTUA, Civil Engineering Department, Athens, Greece.
- S3 **Dimitrakopoulos EG** (19/Dec/2013) “Rocking as a Seismic Isolation Technique for Modern Bridges”, Civil Engineering Seminar Series at EPFL, FACULTÉ DE L’ENVIRONNEMENT NATUREL, ARCHITECTURAL ET CONSTRUIT (ENAC), Lausanne, Switzerland
- S2 **Dimitrakopoulos EG** (17/Dec/2013) “Seismic Response and Nonsmooth Structural Dynamics”, Institute for Structural Engineering (IBK) at ETH, Zürich, Switzerland
- S1 **Dimitrakopoulos EG** (8/Jan/2013) “Rocking as a Seismic Isolation Technique for Modern Concrete Bridges”, M.Sc. program: “Earthquake Resistant Design of Structures”, Aristotle University of Thessaloniki, Civil Engineering Department, Thessaloniki, Greece

PAPERS IN  
REFEREED  
CONFERENCE  
PROCEEDINGS

- C50 Stoura CD\*, **Dimitrakopoulos EG** (2021) “Effect of vehicle–bridge interaction on the vibration of the bridge”, *Proceedings of the 14th World Congress on Computational Mechanics (WCCM 2021)*, Virtual Congress, January 11–15, 2021.
- C49 Stoura CD\*, Paraskevopoulos E, **Dimitrakopoulos EG** (2021) “A systematic approach to solve the vehicle–bridge interaction problem under earthquake“, *Proceedings of the 17th World Conference on Earthquake Engineering (17WCEE 2020)*, Sendai, Japan, September 27–October 2, 2021
- C48 Stoura CD\*, **Dimitrakopoulos EG** (2021) “An Extended Modified Bridge System Method to decouple the vehicle–bridge interaction problem”, *8th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering (COMPDYN 2021)*, Streamed from Athens, Greece, June 28–30, 2021. (abstract and presentation only)
- C47 Stoura CD\*, **Dimitrakopoulos E**, Paraskevopoulos E, Natsiavas S (2021) “A system of ordinary differential equations to solve the vehicle–bridge interaction problem”, *8th ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering (COMPDYN 2021)*, Streamed from Athens, Greece, June 28–30, 2021 (abstract and presentation only)

**RESEARCH PAPERS IN REFEREED CONFERENCE PROCEEDINGS (CONT'D)**

(name) =  
PG student  
under my  
supervision

(name) =  
MSc student  
under my  
supervision

(name) =  
FYP or UG  
student  
under my  
supervision

(name) =  
Post-Doctoral  
researcher  
under my  
supervision

(name)\* =  
Presented  
by ( )

- C46 Pradhan NPN\*, Paraskeva TS, **Dimitrakopoulos EG** (2020) "Experimental characterization of multi-full-culm bamboo to steel connections" *CIGOS 2019, Innovation for Sustainable Infrastructure*, pp. 245-250. Hanoi, Vietnam, 31 October - 1 November, 2019, Lecture Notes in Civil Engineering, Springer Singapore, 2020
- C45 Pradhan NPN\*, Paraskeva TS, **Dimitrakopoulos EG** (2019) "Cyclic behavior of multi-culm bamboo to steel connections" *Advances in Civil Engineering and Materials, Sustainable Bio-composite Materials and Structures*, Fuzhou, China, 25-27 October, 2019
- C44 Pradhan NPN\*, **Dimitrakopoulos EG**, Paraskeva TS (2019) "Characterizing the performance of transversely confined multi-culm bamboo to steel connections" *Sustainable Construction Materials and Technologies*, Kingston upon Thames, United Kingdom, 14-17 July, 2019
- C43 Stoura CD\*, **Dimitrakopoulos EG** "A rational method to decouple the train-bridge interaction problem" *7<sup>th</sup> International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering* (COMPDYN 2019), Crete, Greece, 24-26 June 2019.
- C42 Stoura CD\*, Zeng Q, **Dimitrakopoulos EG** (2019) "Vehicle-Bridge Interaction Analysis Using The Localized Lagrange Multipliers Approach" *7<sup>th</sup> International Conf. on Computational Methods in Structural Dynamics and Earthq Engineering* (COMPDYN 2019), Crete, Greece, 24-26 June 2019.
- C41 Mouka T\*, **Dimitrakopoulos EG** (2019) "Numerical simulation of full-culm bamboo structural member connections" *Proceedings of the CompWood 2019 Conference on Computational Methods in Wood Mechanics*, Växjö, Sweden, June 17-19 (abstract only).
- C40 Grigoropoulos G\*, Louati M, Ghidaoui, MSBH, **Dimitrakopoulos EG** (2018) "Effect of structural vibration in the propagation of high-frequency waves through a fluid-filled elastic pipe" *13<sup>th</sup> International Conference on Pressure Surges*, Bordeaux, France, 14-16 November 2018,
- C39 Pradhan NPN, Mouka T, Lee YM, **Dimitrakopoulos EG** (2018) "Edge bearing induced failure of full culm bamboo" *Global Bamboo and Rattan Congress 2018 (BARC 2018)*, Beijing, China, 25-27 Jun, 2018 (poster only)
- C38 Jin N\*, Paraskeva TS, **Dimitrakopoulos EG** (2018) "Estimation of bridge frequency from a passing vehicle", *9<sup>th</sup> International conference on bridge maintenance, safety and management (IABMAS)*, Melbourne, Australia, 9-13 July 2018
- C37 Jin N\*, Paraskeva TS, **Dimitrakopoulos EG**, Katafygiotis L (2018) "Estimation of bridge frequency from traversing vehicle by short-time stochastic subspace identification", *2<sup>nd</sup> Pan American Congress on Computational Mechanics*, New York, America, Conference date: 22-27 Jul 2018

**RESEARCH  
PAPERS IN  
REFEREED  
CONFERENCE  
PROCEEDINGS  
(CONT'D)**

(name) =  
PG student  
under my  
supervision

(name) =  
MSc student  
under my  
supervision

(name) =  
FYP or UG  
student  
under my  
supervision

(name) =  
Post-Doctoral  
researcher  
under my  
supervision

(name)\* =  
Presented  
by ( )

- C36 Giouvanidis AI\*, **Dimitrakopoulos EG** (2018) “In quest of optimal intensity measures of rocking behavior” *16<sup>th</sup> European Conference on Earthquake Engineering (16ECEE)*, Thessaloniki, Greece, 18-21 June 2018
- C35 Stoura CD\*, Zeng Q, **Dimitrakopoulos EG** (2018) “Seismic analysis between trains and bridges using a localized Lagrange multipliers approach” *The 2018 World Congress on Advances in Civil, Environmental, & Materials Research (ACEM18) and The 2018 Structures Congress (Structures18)*, Incheon, Korea, 28-31 August 2018
- C34 Loong CN\*, Chang CC, **Dimitrakopoulos EG** (2018) “Simultaneous vibration control and energy harvesting using actor-critic based reinforcement learning”, *Proceedings Volume 10595, Active and Passive Smart Structures and Integrated Systems XII*; 105952Q; SPIE Smart Structures and Materials + Nondestructive Evaluation and Health Monitoring, 2018, Denver, Colorado, Un. States. DOI: 10.1117/12.2295304
- C33 Zeng Q\*, **Dimitrakopoulos EG** (2017) “Derailment mechanism of trains running over bridges during strong earthquakes”, *X International Conference on Structural Dynamics, EURO DYN 2017, Procedia Engineering, Volume 199, 2017, Pages 2633-2638*
- C32 Paraskeva TS\*, **Dimitrakopoulos EG**, Katafygiotis L (2017) “Estimation of bridge frequencies from the vibration response of a moving vehicle using an integrated vehicle-bridge interaction analysis”, *6<sup>th</sup> International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering (COMPDYN 2017)*, Rhodes Island, Greece, 15-17 June 2017 (abstract only).
- C31 Giouvanidis AI, Fragiadakis M, **Dimitrakopoulos EG\*** (2017) “Vulnerability Assessment of Flag-Shaped Hysteretic Rocking Bridge Bents”, *6<sup>th</sup> International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering (COMPDYN 2017)*, Rhodes Island, Greece, 15-17 June 2017.
- C30 Giouvanidis AI, **Dimitrakopoulos EG\*** (2017) “Nonsmooth Modelling of Impacts in Rocking Structures with Poisson's Law”, *6<sup>th</sup> International Conference on Computational Methods in Structural Dynamics and Earthquake Engineering (COMPDYN 2017)*, Rhodes Island, Greece, 15-17 June 2017.
- C29 Giouvanidis AI, **Dimitrakopoulos EG\*** (2017) “Seismic Reliability Assessment of Rocking Bridge Bents with Flag-Shaped Hysteretic Behavior”, *16<sup>th</sup> World Conference on Earthquake Engineering, 16WCEE 2017 Santiago Chile*, 9 - 13 Jan 2017.
- C28 Shi Z\*, **Dimitrakopoulos EG** (2017) “Nonsmooth Seismic Response Analysis of a Straight Bridge with Deck Rotation Induced by Abutment Impact”, *16<sup>th</sup> World Conference on Earthquake Engineering, 16WCEE 2017 Santiago Chile*, 9 - 13 Jan 2017.

**RESEARCH  
PAPERS IN  
REFEREED  
CONFERENCE  
PROCEEDINGS  
(CONT'D)**

C27 Zeng Q, **Dimitrakopoulos EG\*** (2017) “Seismic Response Analysis of an Interacting Train-Bridge System considering Derailment”, *16th World Conference on Earthquake Engineering, 16WCEE 2017 Santiago Chile*, 9 - 13 Jan 2017.

C26 Giouvanidis AI, **Dimitrakopoulos EG\*** (2016) “Modelling Contact in Rocking Structures with a Nonsmooth Dynamics Approach”, *ECCOMAS Congress 2016, European Congress on Computational Methods in Applied Sciences and Engineering*, Crete Island, Greece, 5 - 10 June 2016.

C25 Zeng Q, **Dimitrakopoulos EG\*** (2017) “Running Safety Evaluation of High-Speed Trains via Seismic Train-Bridge Interaction Analysis”, *CCESE: Collaborative Conference on Earthquake Science and Engineering*, September 4-8, 2016, Budapest, Hungary (abstract only)

C24 Giouvanidis AI\*, **Dimitrakopoulos EG** (2016) “The Role of the Prestressed Tendons on the Seismic Performance of Hybrid Rocking Bridge Bents”, *ECCOMAS Congress 2016, European Congress on Computational Methods in Applied Sciences and Engineering*, Crete Island, Greece, 5 - 10 June 2016.

C23 Giouvanidis AI, **Dimitrakopoulos EG\***, DeJong MJ (2015) “Seismic response of rocking bridge bents with parameterized flag-shaped hysteretic behavior”, *10<sup>th</sup> Pacific Conference on Earthquake Engineering*, Sydney, Australia, 6-8 November 2015

C22 Zeng Q, **Dimitrakopoulos EG\*** (2015) “Seismic response analysis of a coupled (curved railway) bridge - train system under frequent earthquakes”, *10<sup>th</sup> Pacific Conference on Earthquake Engineering*, Sydney, Australia, 08 November 2015 (poster)

C21 **Dimitrakopoulos EG\*** (2015) “Deterministic and probabilistic assessment of the Seismic Performance of Rocking Behavior Under Near-fault Excitations”, *EMI 2015, Engineering Mechanics Institute Conference*, Stanford University, USA, 16-19 June 2015, (abstract only).

C20 Zeng Q\*, **Dimitrakopoulos EG**, Lo CH (2015) “Three-dimensional Numerical Simulation of the Dynamic Interaction Between High-speed Trains and a Steel-truss Arch Bridge”, *ASEM15, 2015 World Congress on Advances in Structural Engineering and Mechanics*, Songdo Convensia, Incheon, South Korea, 25-29 August 2015

C19 Loong CN\*, Chang CC, **Dimitrakopoulos EG** (2015) “Nonlinear Effects of Energy Harvesting Circuit Topology on a Structure-harvester System”, *11<sup>th</sup> International Workshop on Advanced Smart Materials and Smart Structures Technology*, University of Illinois, Urbana-Champaign, USA, 1-2 August 2015

(name) =  
PG student  
under my  
supervision

(name) =  
MSc student  
under my  
supervision

(name) =  
FYP or UG  
student  
under my  
supervision

(name) =  
Post-Doctoral  
researcher  
under my  
supervision

(name)\* =  
Presented  
by ( )

**RESEARCH PAPERS IN REFEREED CONFERENCE PROCEEDINGS (CONT'D)**

- C18 Zeng Q, **Dimitrakopoulos EG\*** (2015) “Seismic Response Analysis of a Coupled (Curved Railway) Bridge - Train System Under Frequent Earthquakes” *6th IC-EpsMsO*, 6<sup>th</sup> International Conference on “Experiments/ Process/System Modelling/ Simulation/Optimization”, IC-EpsMsO, Athens, 8-11 July 2015
- C17 Zeng Q\*, **Dimitrakopoulos EG**, Guo K, Peng B (2015) “Seismic Response Analysis of an Interacting (Highway) Bridge-Vehicle (Trucks) System under Frequent Earthquakes”, *ICCEASI 2015*, 3<sup>rd</sup> International Conference on Civil Engineering, Architecture and Sustainable Infrastructure, Hong Kong, 1 – 3 July 2015
- C16 **Dimitrakopoulos EG\***, Paraskeva TS (2015) “Seismic Reliability Assessment of Rocking Behaviour Under Near-Fault Excitations” *COMPADYN 2015* 5<sup>th</sup> ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, Crete Island, Greece, 25–27 May 2015
- C15 Zeng Q, **Dimitrakopoulos EG\***, Paraskeva TS (2015) “Seismic Response Analysis of a Coupled Vehicle- Bridge System”, *COMPADYN 2015* 5<sup>th</sup> ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering, Crete Island, Greece, 25–27 May 2015
- C14 Giouvanidis AI\*, **Dimitrakopoulos EG** (2014) “Seismic Analysis of Hybrid Rocking Bridge Bents” *2<sup>nd</sup> European Conference on Earthquake Engineering and Seismology*, Istanbul, Turkey, 25-29 August 2014
- C13 **Dimitrakopoulos EG\***, Zeng Q (2014) “Dynamic interaction between high-speed trains and curved railway bridges”, *IABMAS 2014 International Conference on Bridge Maintenance, Safety and Management, Shanghai*, 7-11 July 2014
- C12 Chrysostomou CZ\*, Kyriakides N, Kappos AJ, Kouris L, Papanikolaou V, **Dimitrakopoulos EG**, Giouvanidis AI, Georgiou E (2014) “Assessment of the Seismic Retrofitting Programme for School Buildings in Cyprus” *4<sup>th</sup> International fib Congress*, Mumbai, India, 10-14 February 2014
- C11 Lu Q\*, Chang CC, **Dimitrakopoulos EG** (2013) “Harvesting Vibration Energy Using a Tuned Mass Damper With an Electromagnetic Energy Harvester”, *6<sup>th</sup> International Conference on Structural Health Monitoring of Intelligent Infrastructure*, Hong Kong, 9-11 Dec 2013
- C10 **Dimitrakopoulos EG\***, DeJong MJ, Giouvanidis AI (2013) “Seismic Assessment of Rocking Bridge Bents Using an Equivalent Rocking Block”, *Advances in Structural Engineering and Mechanics (ASEM)*, Jeju, Korea, 8-12 September 2013.

(name) =  
PG student  
under my  
supervision

(name) =  
MSc student  
under my  
supervision

(name) =  
FYP or UG  
student  
under my  
supervision

(name) =  
Post-Doctoral  
researcher  
under my  
supervision

(name)\* =  
Presented  
by ( )

**RESEARCH  
PAPERS IN  
REFEREED  
CONFERENCE  
PROCEEDINGS  
(CONT'D)**

- C9 **Dimitrakopoulos EG\*** (2013) “Nonsmooth Analysis Of The Earthquake-Induced Pounding In Skew Bridges”, *COMPADYN 2013 4<sup>th</sup> ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering*, Kos Island, Greece, 12–14 June 2013
- C8 DeJong MJ\*, **Dimitrakopoulos EG** (2013) “Towards A Unified Description Of Rocking Structures”, *COMPADYN 2013 4<sup>th</sup> ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering*, Kos Island, Greece, 12–14 June 2013
- C7 DeJong MJ\*, **Dimitrakopoulos EG** (2012) “Equivalent rocking systems: Fundamental rocking parameters”, *15 WCEE*, Lisboa
- C6 Zeng Q, **Dimitrakopoulos EG\*** (2012) “Three-dimensional Numerical Simulation of the Interaction Dynamics of High-speed Trains - Railway Bridges” *5<sup>th</sup> IC-SCCE International Conference from Scientific Computing to Computational Engineering*, Athens, Greece, 4–7 July 2012
- C5 **Dimitrakopoulos EG\***, DeJong MJ (2011) “Seismic Overturning of Damped Rocking Structures” *COMPADYN III ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering*, Corfu, Greece, 26–28 May 2011
- C4 **Dimitrakopoulos EG\***, Kappos AJ, Makris N (2008) “Dimensional Response Analysis of Structures for Records without Distinct Pulses” *Proceedings of the International Scientific Symposium Modelling of Structures*, Mostar, Bosnia & Herzegovina, 13-15 November, 101-117
- C3 **Dimitrakopoulos EG\***, Makris N, Kappos AJ (2008) “Dimensional Analysis of Pounding **Oscillators**” *Proceedings of the 6<sup>th</sup> GRACM International Congress on Computational Mechanics*, Thessaloniki, Greece, 19-21 June, Paper No. 1102.
- C2 Kappos AJ\*, **Dimitrakopoulos EG** (2005) “Analysis and assessment of a seismically isolated bridge”, *Earthquake Resistant Engineering Structures V* (ERES 2005), WIT Press, 625-635.
- C1 **Dimitrakopoulos EG\***, Kappos AJ (2005) “Assessment of a seismically isolated bridge using inelastic time – history analysis” *Proceedings of the 4<sup>th</sup> European Workshop on the Seismic Behaviour of Irregular and Complex Structures*, Thessaloniki, Greece, 26-27 August, Paper No.55

PAPERS IN  
REFEREED  
GREEK  
CONFERENCE  
PROCEEDINGS

- CG5 **Dimitrakopoulos EG\***, Makris N, Kappos AJ (2008) “Dimensional Analysis of the Earthquake Induced Pounding between Adjacent Oscillators”, *3<sup>rd</sup> Hellenic Conf. on Earthquake Engineering and Engineering Seismology*, Athens, Nov. 2008, paper no. 2010. (in Greek)
- CG4 **Dimitrakopoulos EG\***, Kappos AJ (2008) “Estimation of the Optimal Pre-earthquake Strengthening Level based on Life-Cycle-Cost Analysis”, *3<sup>rd</sup> Hellenic Conf. on Earthquake Engineering and Engineering Seismology*, Athens, Nov. 2008, paper no. 2014. (in Greek)
- CG3 Kappos AJ, **Dimitrakopoulos EG\***, Papaioannou Ch (2006) “Feasibility of pre-earthquake strengthening of buildings: Methodology and pilot application”, *15<sup>th</sup> Hellenic Conf. on Concrete*, Alexandroupolis, Oct. 2006. (in Greek)
- CG2 Salonikios TN\*, **Dimitrakopoulos EG** (2006) “Simulation of the flexure - shear interaction in the critical zones of RC walls”, *15<sup>th</sup> Hellenic Conf. on Concrete*, Alexandroupolis, Oct. 2006 (in Greek).
- CG1 Kappos AJ\*, **Dimitrakopoulos EG** (2003) “Application of fluid viscous dampers to the retrofit of existing concrete buildings”, *14<sup>th</sup> Hellenic Conf. on Concrete*, Kos, Oct. 2003, Vol. B, 452-463 (in Greek)

TECHNICAL  
REPORTS

1. Kappos AJ, Athanassiadou Ch, Panagopoulos G, Penelis Gr, Dimitrakopoulos EG (2007) “*Fragility Curves for Reinforced Concrete and Unreinforced Masonry Buildings*”. Report No. 2. Research Program: Seismic vulnerability assessment of existing buildings and development of advances materials and retrofit techniques (acronym: ARISTION), Work Package No.2 (in Greek)
2. Kappos AJ, Dimitrakopoulos EG (2005) “*Cost-Benefit Estimation Methodology for the Pre-earthquake Strengthening of Buildings: Software and Pilot Application*”, Report No. 20. Research Program: Seismic vulnerability assessment of existing buildings and development of advances materials and retrofit techniques (acronym: ARISTION), Work Package No. 6 (in Greek)

CITATION  
METRICSORCID ID: [orcid.org/0000-0003-0341-9512](https://orcid.org/0000-0003-0341-9512)

(11/5/2022)	Citations	h-index	i10-index
<a href="#">Scopus</a>	1406	22	31
<a href="#">Scholar google</a>	1840	22	32

## TEACHING

COURSE INSTRUCTOR	HKUST 2011-2019	i) CIVL2110 “Statics” year 1 undergraduate required course, (every Spring semester)  ii) CIVL4370 “Computer Methods of Structural Analysis” year 3 undergraduate elective course, (every Spring semester) iii) CIVL5350 “Bridge Engineering” postgraduate course, 2012- to date iv) CIVL5390/MECH5930 “Finite Element Methods” post-graduate course
HKUST	2011-TO DATE EVERY OTHER YEAR	v) CIEM6000 “Structural Dynamics” MSc course
HKUST	2019- TO DATE	vi) CIVL 3320 “Reinforced Concrete Design” UG core course
INSTRUCTOR	HKUST 2012-2014	vi) CIVL1010/2010/3010 “Academic and Professional Development I/II/III” course. A series of biweekly sessions every Spring semester aiming to assist students in developing attributes necessary for professional growth. Discussions are led by individual or small groups of students on topics ranging from Civil Engineering practice to student issues.
TEACHING ASSISTANT	CAMBRIDGE UNIVERSITY 2010-2011	“Structural Analysis and Stability” <i>Supervisor (TA)</i> for the 3 <sup>rd</sup> year course (Lent term) of the Engineering Department. Instructors: Mr. F Allan McROBIE and Dr. Fehmi CIRAK
	AUTH FALL 2007	“Seismic Design of Reinforced Concrete Structures”, PG course for MSc. program <i>Earthquake Resistant Design of Structures</i> in AUTH. Instructors: Prof. A. J. KAPPOS, Prof. G. G. PENELIS and Dr. A. SEXTOS
	AUTH 2003- 2007	2 graduate level courses of the Reinforced Concrete and Masonry Structures Laboratory: i) “Reinforced Concrete II” compulsory 7 <sup>th</sup> semester AUTH ii) “Reinforced Concrete III” compulsory 8 <sup>th</sup> semester AUTH



- POSTGRADUATE STUDENTS GRADUATED UNDER MY SUPERVISION
1. Mr. [PRADHAN Nischal](#) (PhD program, Spring 2017 – Fall 2021)  
thesis topic: *Characterization, Analysis and Design of Multi-culm Bamboo Axial Members with Dowel-type Connections for Use in Truss Structures*
  2. Dr. [JIN Nan](#) (PhD, Fall 2015 – Summer 2021) thesis topic: “*Subspace Identification of Bridge Frequencies Utilizing Dynamic Response of Traversing Vehicles*”  
**Postdoctoral Researcher** at Shenzhen Urban Public Safety and Technology Institute, China since 2021
  3. Dr. [STOURA Charikleia](#) (PhD, Fall 2017 – Spring 2021)  
thesis topic: “*Analytical and Numerical Examination of the Vehicle–Bridge Interaction Problem in Railway Bridges*”  
**Postdoctoral Researcher** at ETH, Switzerland since 2022
  4. Mr. [LEUNG Wing Cheong Tom](#) (MPhil, Fall 2018 - Summer 2020)  
thesis topic: “*Crowd-Sensing Based Bridge Modal Identification via Matrix Completion with Smoothness Regularizer*”
  5. Dr. [GIOUVANIDIS Anastasios](#)  
(PhD, Spring 2015 - Spring 2018; MPhil, Spring 2013 - Spring 2015 )  
thesis topic: “*Seismic Response Analysis of Rocking Structures: Hybrid Behavior, Contact Phenomenon and Critical Earthquake Characteristics*”  
**Postdoctoral Researcher** at University of Minho / Institute for Sustainability and Innovation in Structural Engineering, Portugal since 2020
  6. Dr. [ZENG Qing](#) (PhD, Fall 2012- Summer 2016)  
thesis topic: “*Analysis and Simulation of the Vehicle-Bridge Interaction in Horizontally Curved Railway Bridges*”  
**Assistant Professor** in Civil Engineering, School of Civil and Environmental Engineering at Harbin Institute of Technology, Shenzhen (HIT SZ), China since 2019
  7. Mr. [LOONG Cheng Ning](#)  
(MPhil, Fall 2014 - Summer 2016, co-supervised with Prof. CC Chang)  
thesis topic: “*Dimensional Analysis of a Nonlinear Electro–mechanical Structure-harvester System under Ground Motion Excitations*”  
**Postdoctoral Researcher** at HKUST
- POSTGRADUATE STUDENTS UNDER MY SUPERVISION
1. Mr. [MOUKA Theodora](#): PhD program, admitted in Fall 2019  
thesis topic: *Bamboo Engineering*

- PROJECT SUPERVISOR (2011-TO DATE)
- 60 Final Year Projects CIVL 4990 “Civil Engineering Project” (6 credits)
  - 14 CIEM 6980 projects “MSc In Civil Infrastructural Engineering and Management” (6 credits)
  - 6 Undergraduate Research Opportunity Projects

**SERVICE**

GOVERNMENT      2021-TO DATE      *Member of the Technical Committee on the Code of Practice for Structural Use of Concrete Buildings Department*

SCHOOL            2017-2020          *Member of the Engineering Postgraduate Studies Committee (EPSC)*

UNI. AND DEPARTMENTAL

COORDINATOR      2021-TO DATE      *Search & Appointment Committee (Next Generation Infrastructure)*

2017-2020 SEP      *Post-graduate Committee of Civil and Environmental Engineering Department*

MEMBER            2017-TO DATE      *Merit Salary Review Committee of Civil and Environmental Engineering Department*

2014-2017          *Search and Appointment Committee of Civil and Environmental Engineering Department*

2011-2017          *Post-graduate Committee of Civil and Environmental Engineering Department*

2011-2014          *Resource Committee of Civil and Environmental Engineering Department*

2011-2017          *Structural-Engineering-Group review of UG examination papers*

MEMBER OF **PHD** EXAMINATION COMMITTEES

<b>DATE</b>	<b>NAME</b>	<b>UNIVERSITY</b>
MAY 2022	1. Mr. DIAMANTOPOULOS Spyridon	NTUA, Greece
DEC 2021	2. Mr. BARRIOS Gonzalo	Uni. of Auckland, New Zealand
OCT 2021	3. Mr. JIA Xinyu	Uni. of Thessaly, ME Dept., Greece
APR 2021	4. Mr Jose Leonel MIMENDI Cruz	Uni. College London, UK
AUG 2020	5. Mr XU Chi	PolyU, Hong Kong
JAN 2020	6. Mr. AVGENAKIS Evangelos	NTUA, Greece
NOV 2019	7. Mr. ZOUARI Fedi	HKUST
AUG 2019	8. Mr. CHEN Yixin	HKUST
AUG 2019	9. Mr. SEDEHI Omid	HKUST
AUG 2019	10. Mr. YAO Jie	HKUST
MAY 2019	11. Mr. MOGILI Srinivas	HKUST
OCT 2018	12. Mr. WANG Zhilu	PolyU, Hong Kong
AUG 2018	13. Ms. WU Huaran	HKUST
MAY 2018	14. Ms. ZHONG Kaihui	HKUST
MAY 2018	15. Mr. KUN Chern	Uni. of Auckland, New Zealand
JAN 2018	16. Ms. LIM Ellys	Uni. of Auckland, New Zealand
JAN 2018	17. Mr. JAMSHIDI Maziar	HKUST
AUG 2017	18. Mr. SHEN Shanpu	HKUST
JUN 2017	19. Mr. ZHANG Nan	HKUST
JUN 2016	20. Mr. MOEZ Louati	HKUST
JAN 2017	21. Ms. LIPO Blerta	Uni. of Roma Tre, Italy
AUG 2015	22. Mr. MAN Sin Hang	HKUST
AUG 2015	23. Mr. ZHANG Hang Hui	HKUST
AUG 2013	24. Mr. YAN WanJi	HKUST
AUG 2012	25. Mr. TSOI Hiu Fong	HKUST

MEMBER OF **MPHIL** EXAMINATION COMMITTEES

<b>DATE</b>	<b>NAME</b>	<b>UNIVERSITY</b>
AUG 2019	26. Mr. AFZAL Muhammad	HKUST
AUG 2018	27. Mr. LAU Ka Kin	HKUST
DEC 2015	28. Mr. AN Geng	HKUST
JUL 2015	29. Mr. CANCOGNI Fabio	HKUST
AUG 2013	30. Ms. DING Fei	HKUST

ASSOCIATE EDITOR OF	2015- TO DATE	<i>Bridge Engineering</i> journal ( <a href="#">link</a> ), Frontiers in Built Environment
REVIEWER	SCIENTIFIC JOURNALS	<ol style="list-style-type: none"> <li>1. Acta Mechanica; Springer</li> <li>2. Advances in Structural Engng; Multi-Science Publishing</li> <li>3. Applied Mathematical Modelling; Elsevier</li> <li>4. Bulletin of Earthquake Engineering; Springer</li> <li>5. Composites Part B; Elsevier</li> <li>6. Construction &amp; Building Materials; Elsevier</li> <li>7. Earthquake Spectra; EERI*</li> <li>8. Earthquake Engineering; Frontiers in Built Environment</li> <li>9. Earthquake Engineering and Engng Vibration; Springer</li> <li>10. Earthquake Engineering and Structural Dynamics; Wiley</li> <li>11. Earthquakes and Structures; Techno Press</li> <li>12. Engineering Structures; Elsevier</li> <li>13. European Journal of Wood and Wood Products; Springer</li> <li>14. International Journal of Non-Linear Mechanics; Elsevier</li> <li>15. International Journal of Solids and Structures; Elsevier</li> <li>16. International Journal of Structural Stability and Dynamics; World Scientific</li> <li>17. Journal of Bridge Engineering; ASCE*</li> <li>18. Journal of Earthquake Engineering; Taylor &amp; Francis</li> <li>19. Journal of Engineering Mechanics; ASCE*</li> <li>20. Journal of Hydraulic Research; Taylor &amp; Francis</li> <li>21. Journal of Rail and Rapid Transit; SAGE</li> <li>22. Journal of Sound and Vibration; Elsevier</li> <li>23. Journal of Structural Engineering; ASCE*</li> <li>24. Journal of Wood Science; Springer</li> <li>25. Nonlinear Dynamics; Springer</li> <li>26. Nuclear Engineering and Design; Elsevier</li> <li>27. Meccanica; Springer</li> <li>28. Proceedings of the Royal Society A; Royal Society</li> <li>29. Soil Dynamics and Earthquake Engineering; Elsevier</li> <li>30. Structures; Elsevier</li> <li>31. Structures and Buildings; ICE*</li> <li>32. Structural Engineering International; IABSE*</li> <li>33. Vehicle System Dynamics; Taylor &amp; Francis</li> </ol>
<p>ASCE* = American Society of Civil Engineers</p> <p>EERI* = Earthquake Engineering Research Institute</p> <p>IABSE* = International Association for Bridge and Structural Engineering</p> <p>ICE* = Institution of Civil Engineers</p>		
MINI-SYMPOSIA CO-ORGANIZER (INTERNATIONAL CONFERENCES)	2018	<i>“Special Session 12 - Dynamics and Seismic Response of Rocking and Self-centering Structures”</i> , 16 <sup>th</sup> European Conference on Earthquake Engineering Thessaloniki, Greece, 18-21 June 2018
	2017	<i>“MS 30 - Dynamics and Seismic Response of Rocking and Self-centering Structures”</i> , 6 <sup>th</sup> ECCOMAS Thematic Conference on Computational Methods in Structural Dynamics and Earthquake Engineering (COMPdyn 2017), Rhodes Island, Greece 15 – 17/6, 2017

	2016	<i>“MS 1212 - Dynamics and Seismic Response of Rocking and Self-centering Structures”</i> , European Community on Computational Methods in Applied Sciences (ECCOMAS), Crete Island, Greece 5 – 10/6, 2016
	2013	<i>“Advances in Seismic Design and Assessment of Civil Infrastructure”</i> , 2013 World Congress on Advances in Structural Engineering and Mechanics (ASEM), Korea 8-12/9, 2013
SESSION CHAIR		
	2018	<i>SBMS1 2018</i> , 1 <sup>st</sup> World Symposium on Sustainable Bio-Composite Materials and Structures, 9-11 November 2018, Nanjing Forestry University, Nanjing, China
	2018	<i>ECEE 2018</i> , European Conference on Earthquake Engineering Thessaloniki, Greece, 18-21 June 2018
	2016	<i>CCESE: Collaborative Conference on Earthquake Science and Engineering</i> , September 4-8, 2016, Budapest, Hungary
	2016	<i>ECCOMAS Congress 2016</i> , European Congress on Computational Methods in Applied Sciences and Engineering, Crete Island, Greece, 5 - 10 June 2016
	2012	<i>5<sup>th</sup> IC-SCCE International Conference from Scientific Computing to Computational Engineering</i> , Athens, Greece, 4–7 July 2012, Athens, Greece, 2012
PROFESSIONAL AND SCIENTIFIC AFFILIATIONS		
MEMBER	2014-TO DATE	EAAE (European Association of Earthquake Engineering), Working Group 11 <i>“Seismic Design, Assessment, and Retrofit of Bridges”</i>
MEMBER	2010-TO DATE	Greek Union of Theoretical and Applied Mechanics (member of the “International Union of Theoretical and Applied Mechanics”)
MEMBER	2009-TO DATE	Greek Scientific Research Association on Concrete (EΠΕΣ)
MEMBER	2002-TO DATE	Technical Chamber of Greece
FELLOWSHIP	Marie Curie fellow (HPMT-GH-01-00359-16), Fall 2005.	

## APPENDIX A

**Table:** students' evaluation of my teaching

	<b>course</b>	<b>level</b>	<b>Semester</b>	<b>class size/ #of evaluations</b>	<b>course mean/ (depart. mean)</b>	<b>instructor overall mean/ (departmental mean)</b>
i	CIVL2110 "Statics"	Year 1 UG Core	Spring 2012	49/29	78.4% (72.6%)	84.5% (76.0%)
			Spring 2013	51/18	63.9% (71.7%)	59.7% (73.9%)
			Spring 2014	12/7	82.1% (75.5%)	89.3% (78.0%)
			Spring 2015	14/5	85.0% (73.1%)	85.0% (74.2%)
			Spring 2016	14/9	85.7% (74.5%)	89.3% (77.1%)
			Spring 2017	15/7	89.3% (76.9%)	96.4% (79.8%)
			Spring 2018	19/11	83.3% (73.9%)	97.2% (77.5%)
			Spring 2019	13/7	90.0% (70.5%)	95.0% (78.9%)
ii	CIVL3320 "Reinforced Concrete Design"	Year 3 UG core	Spring 2020	52/156	78.8% (67.8%)	89.9% (72.6%)
			Spring 2021	46/167	84.4% (79.8%)	88.2% (81.2%)
iii	CIVL4370 "Computer Methods of Structural Analysis"	Year 3 UG elective	Spring 2012	5/4	93.8% (72.6%)	93.8% (76.0%)
			Spring 2013	11/6	79.2% (71.7%)	79.2% (73.9%)
			Spring 2014	12/9	88.9% (75.5%)	94.4% (78.0%)
			Spring 2015	40/17	83.8% (73.1%)	85.3% (74.2%)
			Spring 2016	30/10	89.3% (76.9%)	89.3% (76.9%)
			Spring 2017	24/10	97.5% (73.9%)	100.0 (77.5%)
			Spring 2018	11/6	100.0% (73.9%)	100.0 (75.1%)
			Spring 2019			
iv	CIVL5350 "Bridge Engineering"	PG	Fall 2012	17/10	87.5% (73.0%)	92.5% (76.4%)
			Fall 2014	11/9	91.7% (74.8%)	94.4% (76.9%)
			Fall 2016	14/8	90.6% (73.6%)	96.9% (77.1%)
v	CIVL5390 MECH5930 "Finite Element Method"	PG	Fall 2011	8/7	100% (74.7%)	100% (78.3%)
			Fall 2013	18/16	85.9% (74.8%)	92.2% (78.5%)
			Fall 2015	16/11	88.6% (72.7%)	93.2% (74.5%)
			Fall 2018	11/9	88.9% (75.7%)	100% (80.4%)
			Fall 2020	4/9	95.0% (89.6%)	95.0% (90.2%)
vi	CIEM6000O "Structural Dynamics"	CIEM (MSc)	Spring 2019	15/11	91.7% (87.0%)	97.2% (89.4%)
			Spring 2020	8/13	97.6% (86.4%)	95.0% (87.2%)