
CURRICULUM VITAE

ARISTOTELIS E. CHARALAMPAKIS
Civil Engineer NTUA, MSc/DIC, PhD

Athens, March 2020

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I. General information



Surname	Charalampakis
Name	Aristotelis
Father's name	Efstratios
Place of birth	Athens, Greece
Date of birth	18/02/1977
Marital status	Married with 1 child
Military service	Completed (Army Corps of Engineers)

Home address	10, I. Metaxa str, 13451, Kamatero, Athens, Greece
Work address	5, Imittou str, 15561, Cholargos, Athens, Greece
Phone numbers	+30 210 23 87 581 (home) +30 6972 00 1993 (mobile) +30 210 65 64 147 (work)
Email	aristotelis.charalampakis@gmail.com (personal) achar@technologismiki.com (work) achar@mail.ntua.gr (academic)
Website	http://www.charalampakis.com (personal) http://www.technologismiki.com (work)

II. Education

2004–2009	<i>Ph.D.</i> National Technical University of Athens (NTUA), Greece. Thesis: “Inelastic dynamic analysis of structures using Bouc–Wen hysteretic models”. Advisor: Professor V. K. Koumousis.
1999–2000	<i>MSc in Concrete Structures.</i> Imperial College, UK (rank: 1 st in class, with distinction). Thesis: “Short and long–term deformation and stressing of slender cylindrical concrete piers due to solar heating”. Advisor: Professor G. L. England.
2000	<i>Diploma of Imperial College – DIC.</i> Imperial College, UK.

1994–1999	<p><i>5-year Degree in Structural Civil Engineering.</i> National Technical University of Athens (NTUA), Greece (grade 8.28/10, rank 11th/216).</p> <p>Thesis: «Design, static and dynamic analysis of buildings made exclusively of concrete shear walls” (grade: 10/10). Advisor: Professor V. K Koumouisis.</p>
1994	Admitted by the faculty of Civil Engineering of NTUA, rank: 22/150, 1 st choice.
1994	Graduation from 4 th Lyceum of Ilion (grade: 19.1/20).

III. Awards

2000	<p><i>J.R. Jenkins Prize for Excellence in Structural Mechanics</i> Imperial College, UK.</p>
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IV. Foreign languages

English	Excellent (Cambridge Certificate of Proficiency in English, grade: A)
French	Good (Certificat de Langue Française, grade: Très Bien)

V. Academic career

2015–2016	<p><i>Assistant Professor.</i> Department of Civil Engineering. Gediz University, Izmir, Turkey.</p>
2014–	<p><i>Postdoctoral researcher.</i> National Technical University of Athens (NTUA), Greece (http://www.ntua.gr).</p>
2010–2015	<p><i>Adjunct Lecturer.</i> MSc in Structural Design and Construction Management (in English). Piraeus University of Applied Sciences (PUAS), Greece /Kingston University, UK.</p>
2016–	<p><i>Adjunct Lecturer.</i> MSc in Civil Engineering and the Built Environment (in English). AMC Metropolitan College, Athens, Greece / University of</p>

2010–	Portsmouth, UK. <i>Adjunct Assistant Professor.</i> Department of Civil Engineering. Previously Piraeus University of Applied Sciences (PUAS) (http://civil.teipir.gr), now University of West Attica (http://uniwa.gr).
2004–2009	<i>Ph.D. Candidate.</i> National Technical University of Athens (NTUA), Greece (http://www.ntua.gr).

VI. Academic activities

A. Teaching experience

Assistant Professor, Department of Civil Engineering, Gediz University, Izmir, Turkey (undergraduate courses taught in English).

Academic period 2015-2016, fall semester:

1. Steel Structures I,
2. Design of Steel Structures.

Academic period 2015-2016, spring semester:

1. Reinforced Concrete II,
2. Steel Structures II,
3. Design of Reinforced Concrete Structures.
4. Civil Engineering Project.

Adjunct Professor at Piraeus University of Applied Sciences (PUAS), Greece / Kingston University, London, UK (postgraduate courses for the MSc in Structural Design and Construction Management, taught in English)

Academic period 2011-2012:

1. Modern methods of structural analysis,
2. Design of structural steel and composite construction.

Academic period 2012-2013:

1. Modern methods of structural analysis,
2. Design of structural steel and composite construction.

Academic period 2013-2014:

1. Modern methods of structural analysis,
2. Design of structural steel and composite construction.

Academic period 2014-2015:

1. Structural design of buildings in concrete and steel.

**Adjunct Assistant Professor at University of West Attica (UNIWA), Greece,
Department of Civil Engineering (undergraduate courses taught in Greek).**

Academic period 2010-2011, fall semester:

1. Structural Mechanics I (Theory, 4 hours/week),
2. Composite Structures (Theory, 4 hours/week).

Academic period 2010-2011, spring semester:

1. Structural Mechanics I (Theory, 4 hours/week),
2. Composite Structures (Theory, 4 hours/week).

Academic period 2011-2012, fall semester:

1. Composite Structures (Theory, 4 hours/week).

Academic period 2011-2012, spring semester:

1. Structural Mechanics I (Theory, 4 hours/week),
2. Composite Structures (Theory, 4 hours/week).

Academic period 2012-2013, fall semester:

1. Composite Structures (Theory, 4 hours/week),
2. Strength of Materials (Laboratories, 4 hours/week, complementary work).

Academic period 2012-2013, spring semester:

1. Structural Mechanics I (Theory, 4 hours/week),
2. Structural Mechanics I (Laboratories, 4 hours/week, complementary work).

Academic period 2013-2014, fall semester:

1. Composite Structures (Theory, 4 hours/week).

Academic period 2013-2014, spring semester:

1. Structural Mechanics I (Theory, 4 hours/week),
2. Structural Mechanics I (Laboratories, 3 hours/week, complementary work).

Academic period 2014-2015, fall semester:

1. Composite Structures (Theory, 4 hours/week),
2. Static Analysis II (Theory, 2 hours/week).

Academic period 2014-2015, spring semester:

1. Structural Mechanics I (Theory, 4 hours/week),
2. Structural Mechanics I (Labs, 10 hours/week).

Academic period 2015-2016, fall semester:

1. Composite Structures (Theory, 10 hours/week).

Academic period 2015-2016, spring semester:

1. Structural Mechanics I (Theory, 10 hours/week).

Academic period 2016-2017, fall semester:

1. Composite Structures (Theory, 10 hours/week),
2. Strength of Materials (Laboratories, 10 hours/week).

Academic period 2016-2017, spring semester:

1. Structural Mechanics I (Theory, 10 hours/week),
2. Structural Mechanics I (Laboratories, 20 hours/week).

Academic period 2017-2018, fall semester:

1. Composite Structures (Theory, 10 hours/week),
2. Strength of Materials (Laboratories, 10 hours/week).

Academic period 2017-2018, spring semester:

1. Structural Mechanics I (Theory, 10 hours/week),
2. Structural Mechanics I (Laboratories, 20 hours/week).

Academic period 2018-2019, fall semester:

1. Dynamics of Solids (Theory, 8 hours/week).

Academic period 2018-2019, spring semester:

1. Mechanics of Deformable Bodies (Theory, 4 hours/week).
2. Strength of Materials (Theory, 4 hours/week).

Academic period 2019-2020, fall semester:

1. Dynamics of Solids (Theory, 4 hours/week).
2. Strength of Materials (Theory, 4 hours/week).

Course supervision, Postgraduate course in the Applied Computational Structural Mechanics, School of Pedagogical and Technological Education.

Academic period 2015-2016, spring semester:

1. Fuzzy logic, neural networks and metaheuristic algorithms (Theory, 2 hours/week).

Adjunct Professor at AMC Metropolitan College, Athens, Greece / University of Portsmouth, UK (postgraduate courses for the MSc Civil Engineering and the Built Environment, taught in English):

Academic period 2016-2017:

1. Civil engineering science.

Academic period 2017-2018:

1. Civil engineering science.

Academic period 2018-2019:

1. Civil engineering science.

Academic period 2019-2020:

1. Civil engineering science.

Hellenic Army Corps of Engineers (STEAMX).

Academic period 2019-2020:

1. Operational Research – Optimization (Theory, 2 hours/week)

B. Supervision of theses

All supervisions were performed stand-alone, unless stated otherwise.

1. Kottari, A., (2009) “Generalized Bouc–Wen models in elastoplastic analysis of structures”, Graduate thesis, Statics and Aseismic Research Laboratory, Department of Structural Engineering, School of Civil Engineering, National Technical University of Athens (NTUA), in Greek (co-supervision, advisor: Professor V. K. Koumouisis).

2. Epitropoulos, K., (2012) “Optimum design of composite poles of outdoor media”, Graduate thesis, Department of Civil Engineering, Piraeus University of Applied Sciences (PUAS) (in Greek).
3. Daravalis, D., (2012) “Strength evaluation of composite members according to the Eurocodes: Development of computational tools and parametric analyses”, Graduate thesis, Department of Civil Engineering, Piraeus University of Applied Sciences (PUAS) (in Greek).
4. Kompotos, K., (2015) “Optimum design of composite members using evolutionary algorithms”, Graduate thesis, Department of Civil Engineering, Piraeus University of Applied Sciences (PUAS) (in Greek).
5. Drogeja, B., (2016) “Optimization of large-scale steel office buildings using Differential Evolution”, Graduation thesis, Gediz University, Izmir, Turkey.
6. Konneh, S., (2016) “Size optimization of steel truss bridge by method of Genetic Algorithm, with application of finite element analysis (FEA)”, Graduation thesis, Gediz University, Izmir, Turkey.
7. Tek, B., (2016) “Discrete optimization of trusses using Differential Evolution”, Graduation thesis, Gediz University, Izmir, Turkey.
8. Maggana, A., Papadaki, P., (2017) “Composite residential structures in Greece – a case study of a house in Cholargos, Athens, Greece” Graduate thesis, Department of Civil Engineering, Piraeus University of Applied Sciences (PUAS) (in Greek).
9. Faka, C., Kavallieratou, A., (2017) “Update of computational tools for the evaluation of the strength of composite members according to EC4 – optimization using Particle Swarm Optimization”, Graduate thesis, Department of Civil Engineering, Piraeus University of Applied Sciences (PUAS) (in Greek).
10. Chatzidimitriou A.-C., (2017) “Structural and Cost Optimization of Industrial Steel Building in Greece”, Postgraduate Thesis, AMC Metropolitan College.
11. Boumpas T.D. (2018) “Optimization of steel components and substructures according to Eurocode 3”, Postgraduate Thesis, AMC Metropolitan College.
12. Benetatos, P. (2018) “Investigation of the effects of multiple repair procedures to S355J2 structural steel”, Postgraduate Thesis, AMC Metropolitan College.
13. Katsiaounis, A. (2018) “Generic FEM Optimization Framework Using Metaheuristics”, Postgraduate Thesis, AMC Metropolitan College.

C. Reviewer of international scientific journals

1. Mechanical Systems and Signal Processing, Elsevier.
2. Computers and Structures, Elsevier.

3. Journal of Vibration and Acoustics, Transactions of the ASME.
4. Journal of Mechanical Science and Technology, Springer.
5. International Journal of Non-Linear Mechanics, Elsevier.
6. Engineering Structures, Elsevier.
7. Journal of Computing in Civil Engineering, ASCE.
8. Advances in Structural Engineering, Multi-Science Publishing.
9. Advances in Engineering Software, Elsevier.
10. Inverse Problems in Science & Engineering, Taylor & Francis.
11. Applied Soft Computing, Elsevier.
12. Earthquake Engineering and Engineering Vibration, Springer.
13. Journal of Vibration and Control, Sage Journals.
14. Probabilistic Engineering Mechanics, Elsevier.
15. Materials, MDPI.
16. International Journal of Geomechanics, ASCE.
17. Archives of Mechanics, Polish Academy of Sciences.
18. Structural Engineering and Mechanics, An International Journal, TechnoPress.

D. Participation in research programs

1. “Modern methods in seismic design of structures”, 2005–2008. Coordinator: Professor V. K. Koumouisis (as PhD candidate).
2. “Aristeia – Stochastic analysis and modeling of post-disaster transport network operations”, 2014–2016. Coordinator: Professor M. G. Karlaftis, Professor A. Stathopoulos (as post-doctoral researcher).

VII. Scientific publications

A. Doctoral theses

1. **Charalampakis, A. E.**, (2009) “[Inelastic dynamic analysis of structures using Bouc–Wen hysteretic models](#)”, PhD thesis, Statics and Aseismic Research Laboratory, Department of Structural Engineering, School of Civil Engineering, National Technical University of Athens, April 2009 (supervisor: professor V. K. Koumouisis).

B. Undergraduate/graduate theses

1. **Charalampakis, A. E.**, (1999) “[Design, static and dynamic analysis of buildings made exclusively of concrete shear walls](#)”, Graduate thesis, Statics and Aseismic Research Laboratory, Department of Structural Engineering, School of Civil Engineering, National Technical University of Athens (supervisor: professor V. K. Koumousis).
2. **Charalampakis, A. E.**, (2000) “[Short and long term deformation and stressing of slender cylindrical concrete piers due to solar heating](#)”, MSc dissertation, Imperial College, London, June 2000 (supervisor: professor G. L. England).

C. Publications in international scientific journals

1. **Charalampakis, A. E.**, Koumousis, V. K., “Ultimate strength analysis of composite sections under biaxial bending and axial load”, *Advances in Engineering Software*, 39 (2008): 923–936, [doi:10.1016/j.advengsoft.2008.01.007](#) (Ranked 3rd in the list of “Top 25 hottest articles” of the journal during the period Jul-Sep 2008).
2. **Charalampakis, A. E.**, Koumousis, V. K., “Identification of Bouc–Wen hysteretic systems by a hybrid evolutionary algorithm”, *Journal of Sound and Vibration*, 314 (2008): 571–585, [doi:10.1016/j.jsv.2008.01.018](#).
3. **Charalampakis, A. E.**, Koumousis, V. K., “On the response and dissipated energy of Bouc–Wen hysteretic model”, *Journal of Sound and Vibration*, 309 (2008): 887–895, [doi:10.1016/j.jsv.2007.07.080](#).
4. Vayas, I., **Charalampakis, A. E.**, Koumousis, V. K., “Inelastic resistance of angle sections subjected to biaxial bending and normal forces”, *Steel Construction*, 2(2) (2009): 138–146, [doi:10.1002/stco.200910018](#).
5. **Charalampakis, A. E.**, Koumousis, V. K., “A Bouc–Wen model compatible with plasticity postulates”, *Journal of Sound and Vibration*, 322 (2009): 954–968, [doi:10.1016/j.jsv.2008.11.017](#).
6. **Charalampakis, A. E.**, Dimou, C. K., “Identification of Bouc–Wen hysteretic systems using Particle Swarm Optimization”, *Computers and Structures*, 88 (2010): 1197–1205, [doi:10.1016/j.compstruc.2010.06.009](#).
7. **Charalampakis, A. E.**, “Full plastic capacity of equal angle sections under biaxial bending and normal force”, *Engineering Structures*, 33(6) (2011): 2085–2090, [doi:10.1016/j.engstruct.2011.02.044](#).
8. **Charalampakis, A. E.**, “Registrar: a complete-memory operator to enhance performance of genetic algorithms”, *Journal of Global Optimization*, 54(3) (2012): 449–483, [doi:10.1007/s10898-011-9770-6](#).
9. **Charalampakis, A. E.**, Dimou, C. K., “Comparison of evolutionary algorithms for the identification of Bouc–Wen hysteretic systems”, *Journal of Computing in Civil Engineering*, ASCE, 29(3) (2015): 04014053, [doi:10.1061/\(ASCE\)CP.1943-5487.0000348](#).

10. Kontou, E., Kepaptsoglou, K., **Charalampakis, A. E.**, Karlaftis, M. G., “The bus to depot allocation problem revisited: a genetic algorithm”, *Public Transport*, 6(3) (2014): 237–255, [doi:10.1007/s12469-013-0078-4](https://doi.org/10.1007/s12469-013-0078-4).
11. Kottari, A., **Charalampakis, A. E.**, Koumousis, V. K., “A consistent degrading Bouc–Wen model”, *Engineering Structures*, 60 (2014): 235–240, [doi:10.1016/j.engstruct.2013.12.025](https://doi.org/10.1016/j.engstruct.2013.12.025).
12. **Charalampakis, A. E.**, “The response and dissipated energy of Bouc–Wen hysteretic model revisited”, *Archive of Applied Mechanics*, 85(9) (2015): 1209–1223, [doi:10.1007/s00419-014-0937-8](https://doi.org/10.1007/s00419-014-0937-8).
13. Tsiatas, G. C., **Charalampakis, A. E.**, “Optimizing the natural frequencies of axially functionally graded beams and arches”, *Composite Structures*, 160 (2017): 256–266, [doi:10.1016/j.compstruct.2016.10.057](https://doi.org/10.1016/j.compstruct.2016.10.057).
14. **Charalampakis, A. E.**, Chatzigiannelis, I. G., “Analytical solutions for the minimum weight design of trusses by cylindrical algebraic decomposition”, *Archive of Applied Mechanics*, 88(1–2) (2018): 39–49, [doi:10.1007/s00419-017-1271-8](https://doi.org/10.1007/s00419-017-1271-8).
15. Tsiatas, G. C., **Charalampakis, A. E.**, “A new Hysteretic Nonlinear Energy Sink (HNES)”, *Communications in Nonlinear Science and Numerical Simulation*, 60 (2018): 1–11, [doi:10.1016/j.cnsns.2017.12.014](https://doi.org/10.1016/j.cnsns.2017.12.014).
16. **Charalampakis, A. E.**, Tsiatas, G. C., “Effects of Hysteresis and Negative Stiffness on Seismic Response Reduction: A Case Study Based on the 1999 Athens, Greece Earthquake”, *Frontiers in Built Environment*, 4 (2018): 23, [doi:10.3389/fbuil.2018.00023](https://doi.org/10.3389/fbuil.2018.00023).
17. **Charalampakis, A. E.**, Tsiatas, G. C., “A simple rate-independent uniaxial Shape Memory Alloy (SMA) model”, *Frontiers in Built Environment*, 4 (2018): 46, [doi:10.3389/fbuil.2018.00046](https://doi.org/10.3389/fbuil.2018.00046).
18. **Charalampakis, A. E.**, Tsiatas, G. C., “Critical Evaluation of Metaheuristic Algorithms for Weight Minimization of Truss Structures”, *Frontiers in Built Environment*, 5 (2019): 113, [doi: 10.3389/fbuil.2019.00113](https://doi.org/10.3389/fbuil.2019.00113).
19. **Charalampakis, A. E.**, Tsiatas, G. C., Tsopelas, P., “A mass-reduction design concept for seismic hazard mitigation”, *Earthquake Engineering & Structural Dynamics*, 49(3) (2020): 301–314, [doi: 10.1002/eqe.3239](https://doi.org/10.1002/eqe.3239).

D. Publications in conference proceedings

1. **Charalampakis, A. E.**, Koumousis, V. K., “[A generic fiber model for the analysis of arbitrary cross sections under biaxial bending and axial load](#)”, Proc. 7th International Conference on Engineering Computational Technology, Lisbon, Portugal; 2004.
2. **Charalampakis, A. E.**, Koumousis, V. K., “[Ultimate strength analysis of arbitrary cross sections under biaxial bending and axial load by fiber model](#)”

- [and curvilinear polygons](#)”, Proc. 5th GRACM International Congress on Computational Mechanics, Limassol, Cyprus; 2005.
3. **Charalampakis, A. E.**, Koumouisis, V. K., “[mySpec: Educational software for structural dynamics and hysteretic systems](#)”, Proc. 8th International Conference on Computational Structures Technology, Las Palmas de Gran Canaria, Spain; 2006.
 4. **Charalampakis, A. E.**, Koumouisis, V. K., “[Parameter estimation of Bouc–Wen hysteretic systems using SawTooth Genetic Algorithm](#)”, Proc. 5th International Conference on Engineering Computational Technology, Las Palmas de Gran Canaria, Spain; 2006.
 5. **Charalampakis, A. E.**, Koumouisis, V. K., “[Robust identification of Bouc–Wen hysteretic systems by SawTooth GA and Bounding](#)”, Proc. Computational Methods in Structural Dynamics and Earthquake Engineering (COMPDYN) 2007, Rethimno, Crete, Greece; 2007.
 6. **Charalampakis, A. E.**, Koumouisis, V. K., “[Implementing an improved Bouc–Wen model to account for plasticity postulates](#)”, Proc. Computational Methods in Structural Dynamics and Earthquake Engineering (COMPDYN) 2009, Rhodes, Greece; 2009.
 7. Kottari, A., **Charalampakis, A. E.**, Koumouisis, V. K., “[Degrading Bouc–Wen models compatible with plasticity postulates](#)”, Proc. 9th HSTAM International Congress on Mechanics, Limassol, Cyprus; 2010.
 8. Dimou, C. K., **Charalampakis, A. E.**, “[Examination of the performance of PSO algorithm with time–varying population](#)”, Proc. 9th HSTAM International Congress on Mechanics, Limassol, Cyprus; 2010.
 9. **Charalampakis, A. E.**, Koumouisis, V. K., “[Parameters of Bouc–Wen model revisited](#)”, Proc. 9th HSTAM International Congress on Mechanics, Limassol, Cyprus; 2010.
 10. **Charalampakis, A. E.**, Dimou, C. K., “[Comparison of Differential Evolution, Particle Swarm Optimization and Genetic Algorithms for the identification of Bouc–Wen hysteretic systems](#)”, Proc. 2nd International Conference on Soft Computing Technology in Civil, Structural and Environmental Engineering (CSC2011), Chania, Greece; 2011.
 11. Dimou, C. K., **Charalampakis, A. E.**, “[Reliability-based optimal design of truss structures using Binary Particle Swarm Optimization with time-varying parameters](#)”, Proc. 2nd International Conference on Soft Computing Technology in Civil, Structural and Environmental Engineering (CSC2011), Chania, Greece; 2011.
 12. **Charalampakis, A. E.**, “[Introducing full memory in Genetic Algorithms](#)”, Proc. 2nd International Conference on Soft Computing Technology in Civil, Structural and Environmental Engineering (CSC2011), Chania, Greece; 2011.

13. Tsiatas, G. C., **Charalampakis, A. E.**, “[Optimizing the natural frequencies of functionally graded beams and arches](#)”, Proc. 11th HSTAM International Congress on Mechanics, Athens, Greece; 2016.
14. **Charalampakis, A. E.**, Chatzigiannelis, I. G., “[Analytical weight minimization of trusses using Cylindrical Algebraic Decomposition](#)”, Proc. 11th HSTAM International Congress on Mechanics, Athens, Greece; 2016.
15. **Charalampakis, A. E.**, “[Comparison of metaheuristic algorithms for size optimization of trusses](#)”, Proc. 11th HSTAM International Congress on Mechanics, Athens, Greece; 2016.
16. Tsiatas, G. C., **Charalampakis, A. E.**, “[Numerical investigation of a highly effective hysteretic nonlinear energy sink in shock mitigation](#)”, Proc. 9th GRACM International Congress on Computational Mechanics, Chania, Greece; 2018.
17. **Charalampakis, A. E.**, Tsiatas, G. C., Tsopelas, P. “[Innovative seismic protection system for multistory buildings using floating slabs](#)”, Proc. 4th Panhellenic Congress on Seismic Engineering and Engineering Seismology, Athens, Greece; 2019.
18. **Charalampakis A.E.**, Tsiatas G.C., Tsopelas P. “[Investigation of floating slabs for both local seismic isolation and global mass damping](#)”, Proc. 12th HSTAM International Congress on Mechanics, Thessaloniki, Greece; 2019.
19. Tsiatas G.C., **Charalampakis A.E.**, Tsopelas P. “[Seismic response of structures equipped with linear and nonlinear mass damping systems](#)”, 12th HSTAM International Congress on Mechanics, Thessaloniki, Greece; 2019.

E. Books

1. F. Fotopoulos, **A. Charalampakis**, “Applications of computational hydraulics”, TechnoLogismiki, 2005, [ISBN:960-88473-0-3](#).
2. F. Fotopoulos, **A. Charalampakis**, “Design of hydraulic works”, TechnoLogismiki, 2008, [ISBN:978-960-88473-1-6](#).
3. F. Fotopoulos, **A. Charalampakis**, “Applications of computational hydraulics”, TechnoLogismiki, second edition, 2014, [ISBN:978-960-88473-2-3](#).

F. Presentations in international symposia

1. **Charalampakis, A. E.**, Koumousis, V. K., “Compliance of the Bouc-Wen model with plasticity postulates”, 4th Greek–Serbian Symposium, Vlasina Lake, Serbia; 2011.
2. **Charalampakis, A. E.**, “The response and dissipated energy of Bouc–Wen hysteretic model revisited”, 8th German–Greek–Polish Symposium, Goslar, Germany; 2013.

3. **Charalampakis, A. E.**, “Analytical minimum weight design of trusses using Cylindrical Algebraic Decomposition”, 9th German–Greek–Polish Symposium, Kolympari, Crete, Greece; 2016.

G. Course notes

1. F. Fotopoulos, **A. Charalampakis** (1996) “[Ordinary differential equations](#)”, Diagramma, Athens.
2. F. Fotopoulos, **A. Charalampakis** (1996) “[Fortran](#)”, Diagramma, Athens.
3. F. Fotopoulos, **A. Charalampakis** (1996) “[Basic](#)”, Diagramma, Athens.
4. F. Fotopoulos, **A. Charalampakis** (1996) “[Materials II](#)”, Diagramma, Athens.
5. F. Fotopoulos, **A. Charalampakis** (1996) “[Statistics](#)”, Diagramma, Athens.
6. F. Fotopoulos, **A. Charalampakis** (1996) “[Probabilities](#)”, Diagramma, Athens.
7. F. Fotopoulos, **A. Charalampakis** (1996) “[Macroeconomy](#)”, Diagramma, Athens.
8. F. Fotopoulos, **A. Charalampakis** (1996) “[Chemistry](#)”, Diagramma, Athens.
9. F. Fotopoulos, **A. Charalampakis** (1996) “[Engineering Law](#)”, Diagramma, Athens.
10. F. Fotopoulos, **A. Charalampakis** (1996) “[Ecology](#)”, Diagramma, Athens.
11. F. Fotopoulos, **A. Charalampakis** (1997) “[Mechanics](#)”, Diagramma, Athens.
12. **Charalampakis, A. E.**, (2015) “[Steel structures I](#)”, Gediz University, Izmir, Turkey.
13. **Charalampakis, A. E.**, (2015) “[Design of steel structures](#)”, Gediz University, Izmir, Turkey.
14. **Charalampakis, A. E.**, (2016) “[Steel structures II](#)”, Gediz University, Izmir, Turkey.
15. **Charalampakis, A. E.**, (2016) “[Reinforced concrete II](#)”, Gediz University, Izmir, Turkey.
16. **Charalampakis, A. E.**, (2016) “[Design of reinforced concrete structures](#)”, Gediz University, Izmir, Turkey.
17. **Charalampakis, A. E.**, (2016) “[Steel structures companion](#)”, Gediz University, Izmir, Turkey.
18. **Charalampakis, A. E.**, (2016) “[Reinforced concrete structures companion](#)”, Gediz University, Izmir, Turkey.

H. Other publications

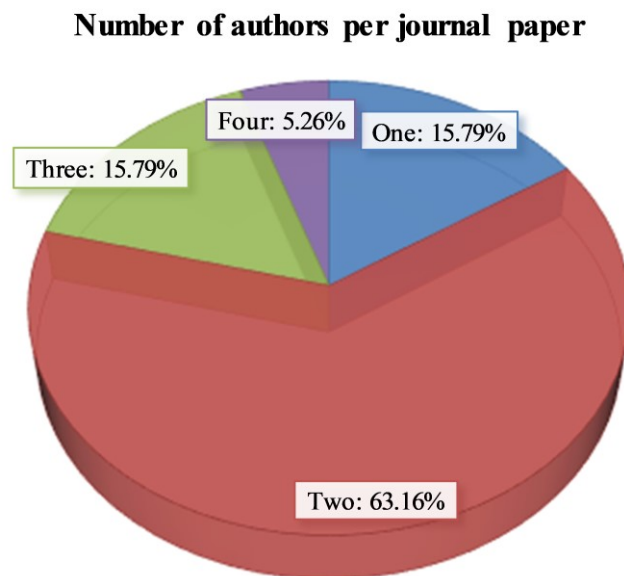
1. Charalampakis, A.E., [mySpec: analysis of a SDoF of 2DoF systems](#). National Technical University of Athens; 2003.
2. Charalampakis, A.E., [myBiaxial 2.0: analysis of arbitrary composite sections in biaxial bending and axial load](#). National Technical University of Athens; 2005.
3. Charalampakis, A.E., [myBWID: identification of Bouc-Wen hysteretic systems](#). National Technical University of Athens; 2008.
4. Charalampakis, A.E., [myBWMod: implementation of a modified Bouc-Wen model](#). National Technical University of Athens; 2009.

VIII. Bibliometric data & citations

The citations were extracted from Google Scholar (with self-citations) and Scopus (with self-citations and without citations from all authors) on 05/01/2020.

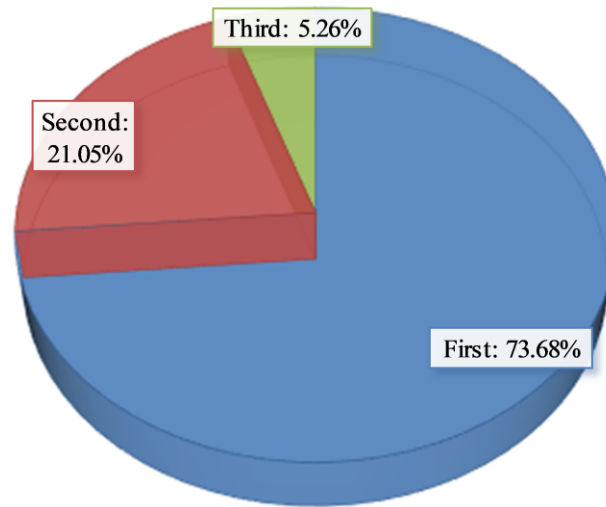
The impact factors have been obtained from Scopus' list of sources on 05/01/2020.

A. Number of authors per journal paper



B. Author position per journal paper

Author position per journal paper



C. Paper citations

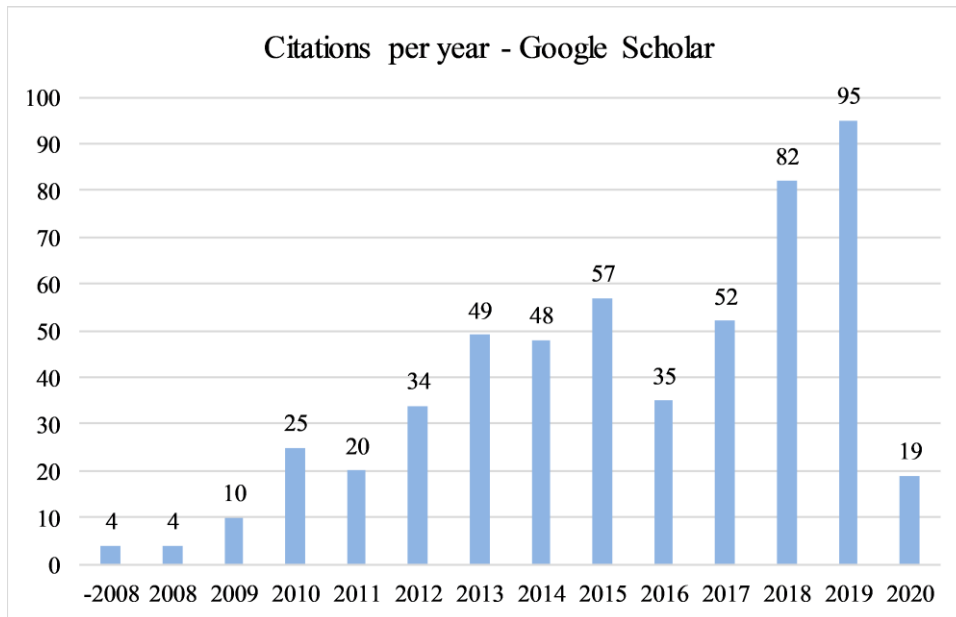
Paper		Citations in:		
		Google Scholar	Scopus	Scopus excl. self citations
Sum:		534	340	276
C1	Charalampakis, A. E., Koumouisis, V. K., "Ultimate strength analysis of composite sections under biaxial bending and axial load", <i>Advances in Engineering Software</i> , 39 (2008): 923–936, doi:10.1016/j.advengsoft.2008.01.007	75	46	42
C2	Charalampakis, A. E., Koumouisis, V. K., "Identification of Bouc–Wen hysteretic systems by a hybrid evolutionary algorithm", <i>Journal of Sound and Vibration</i> , 314 (2008): 571–585, doi:10.1016/j.jsv.2008.01.018	115	87	70
C3	Charalampakis, A. E., Koumouisis, V. K., "On the response and dissipated energy of Bouc–Wen hysteretic model", <i>Journal of Sound and Vibration</i> , 309 (2008): 887–895, doi:10.1016/j.jsv.2007.07.080	57	39	31
C4	Vayas, I., Charalampakis, A. E., Koumouisis, V. K., "Inelastic resistance of angle sections subjected to biaxial bending and normal forces", <i>Steel Construction</i> 2(2) (2009): 138–146, doi:10.1002/stco.200910018	10	-	-
C5	Charalampakis, A. E., Koumouisis, V. K., "A Bouc–Wen model compatible with plasticity postulates", <i>Journal of Sound and Vibration</i> , 322 (2009): 954–968, doi:10.1016/j.jsv.2008.11.017	54	29	18
C6	Charalampakis, A. E., Dimou, C. K., "Identification of Bouc–Wen hysteretic systems using Particle Swarm Optimization", <i>Computers and Structures</i> , 88 (2010): 1197–1205, doi:10.1016/j.compstruc.2010.06.009	76	59	54

Paper		Citations in:		
		Google Scholar	Scopus	Scopus excl. self citations
C7	Charalampakis, A. E., "Full plastic capacity of equal angle sections under biaxial bending and normal force", <i>Engineering Structures</i> , 33(6) (2011): 2085–2090, doi:10.1016/j.engstruct.2011.02.044	10	7	7
C8	Charalampakis, A. E., "Registrar: a complete-memory operator to enhance performance of genetic algorithms", <i>Journal of Global Optimization</i> , 54(3) (2012), 449–483, doi:10.1007/s10898-011-9770-6	4	2	0
C9	Charalampakis, A. E., Dimou, C. K., "Comparison of evolutionary algorithms for the identification of Bouc-Wen hysteretic systems", <i>Journal of Computing in Civil Engineering</i> , ASCE, 04014053 (2013), doi:10.1061/(ASCE)CP.1943-5487.0000348	10	5	4
C10	Kontou, E., Kepaptsoglou, K., Charalampakis, A. E., Karlaftis, M. G., "The bus to depot allocation problem revisited: a genetic algorithm", <i>Public Transport</i> , 6(3) (2014): 237–255, doi:10.1007/s12469-013-0078-4	4	2	2
C11	Kottari, A., Charalampakis, A. E., Koumousis, V. K., "A consistent degrading Bouc–Wen model", <i>Engineering Structures</i> , 60 (2014): 235–240, doi:10.1016/j.engstruct.2013.12.025	23	20	12
C12	Charalampakis, A. E., "The response and dissipated energy of Bouc–Wen hysteretic model revisited", <i>Archive of Applied Mechanics</i> , 85(9) (2015): 1209–1223, doi:10.1007/s00419-014-0937-8	18	13	10
C13	Tsiatas, G. C., Charalampakis, A. E., "Optimizing the natural frequencies of axially functionally graded beams and arches", <i>Composite Structures</i> , 160 (2017): 256–266, doi:10.1016/j.compstruct.2016.10.057	23	18	17
C14	Charalampakis, A. E., Chatzigiannelis, I. G., "Analytical solutions for the minimum weight design of trusses by cylindrical algebraic decomposition", <i>Archive of Applied Mechanics</i> , 88(1–2) (2018): 39–49, doi:10.1007/s00419-017-1271-8.	20	6	5
C15	Tsiatas, G. C., Charalampakis, A. E., "A new Hysteretic Nonlinear Energy Sink (HNES)", <i>Communications in Nonlinear Science and Numerical Simulation</i> , 60 (2018): 1–11, doi:10.1016/j.cnsns.2017.12.014.	6	5	4
C17	Charalampakis, A. E., Tsiatas, G. C., "A simple rate-independent uniaxial Shape Memory Alloy (SMA) model", <i>Frontiers in Built Environment</i> , 4 (2018): 46, doi: 10.3389/fbuil.2018.00046.	2	1	0
D2	Charalampakis, A. E., Koumousis, V. K., "Ultimate strength analysis of arbitrary cross sections under biaxial bending and axial load by fiber model and curvilinear polygons", <i>Proc. 5th GRACM International Congress on Computational Mechanics</i> , Limassol, Cyprus; 2005.	4	-	-

Paper		Citations in:		
		Google Scholar	Scopus	Scopus excl. self citations
D4	Charalampakis, A. E., Koumouisis, V. K., "Parameter estimation of Bouc–Wen hysteretic systems using SawTooth Genetic Algorithm", Proc. 5th International Conference on Engineering Computational Technology, Las Palmas de Gran Canaria, Spain; 2006.	4	1	0
D7	Kottari, A., Charalampakis, A. E., Koumouisis, V. K., "Degrading Bouc–Wen models compatible with plasticity postulates", Proc. 9th HSTAM International Congress on Mechanics, Limassol, Cyprus; 2010.	1	-	-
D9	Charalampakis, A. E., Koumouisis, V. K., "Parameters of Bouc–Wen model revisited", Proc. 9th HSTAM International Congress on Mechanics, Limassol, Cyprus; 2010.	9	-	-
D10	Charalampakis, A. E., Dimou, C. K., "Comparison of Differential Evolution, Particle Swarm Optimization and Genetic Algorithms for the identification of Bouc Wen hysteretic systems", Proc. 2nd International Conference on Soft Computing Technology in Civil, Structural and Environmental Engineering (CSC2011), Chania, Greece; 2011.	3	0	0
D15	Charalampakis, A. E., "Comparison of metaheuristic algorithms for size optimization of trusses", Proc. 11th HSTAM International Congress on Mechanics, Athens, Greece; 2016.	6	-	-

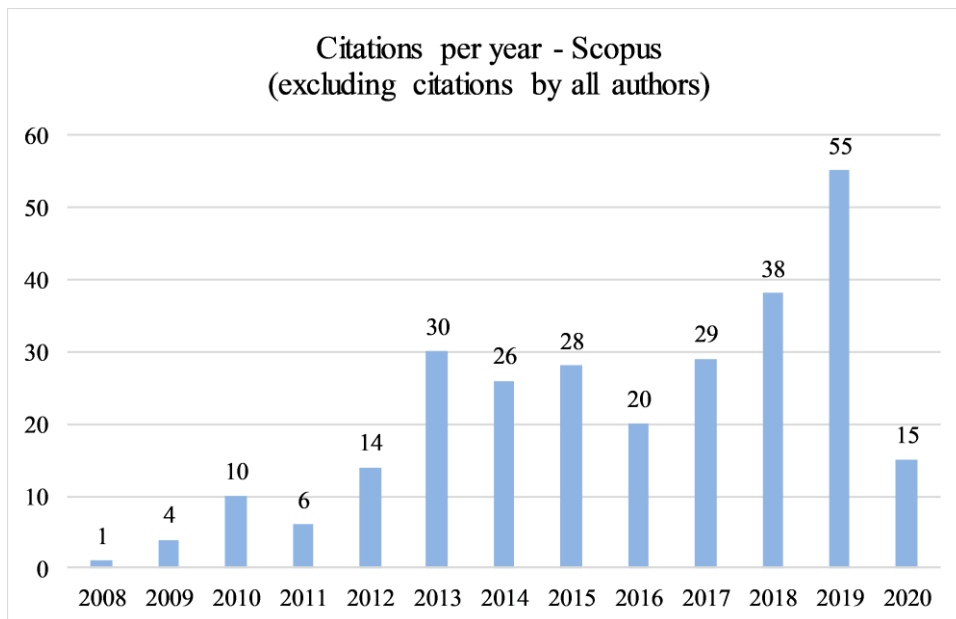
D. Google Scholar

Link	user=BBtnkDwAAAAJ
Citations	534
Citations (2015-)	340
h-index	10
h-index (2015-)	10
i10-index	12
i10-index (2015-)	10



E. Scopus

Link [authorId=22952886900](https://orcid.org/0000-0001-9000-2295)
 Citations 276 (excluding citations by all authors)
 h-index 8



F. Journal impact factors

CiteScore metrics calculated using data from 30 April, 2019. SNIP and SJR calculated using data from 30 April, 2019. Corrections per October 2019.

Journal title	No. of papers	CiteScore	Percentile	Citation Count	Scholarly Output	Percent Cited	SNIP	SJR
Composite Structures	1	5.39	97	16290	3025	91	2.035	1.967
Advances in Engineering Software	1	4.93	96	1907	387	79	2.308	1.002
Earthquake Engineering & Structural Dynamics	1	4.11	95	1767	430	87	2.377	2.777
Communications in Nonlinear Science and Numerical Simulation	1	4.03	96	4091	1015	79	1.805	1.326
Computers and Structures	1	3.91	90	2181	558	85	1.972	1.543
Engineering Structures	2	3.77	89	8160	2162	89	2.089	1.628
Journal of Sound and Vibration	3	3.75	88	6272	1673	84	2.044	1.279
Journal of Computing in Civil Engineering	1	3.26	86	1160	356	80	1.246	0.825
Public Transport	1	2.28	72	164	72	79	0.961	0.804
Frontiers in Built Environment	3	2.14	74	285	133	65	0.863	-
Journal of Global Optimization	1	1.91	69	696	365	64	1.382	0.871
Archive of Applied Mechanics	2	1.73	65	681	393	65	0.955	0.641
Steel Construction	1	0.65	38	28	43	37	1.212	0.38

IX. Member or professional and scientific communities

1. Greek Technical Chamber (TEE), license no 83046.
2. Association of Greek Civil Engineers (SPME).
3. Hellenic Society for Theoretical & Applied Mechanics (HSTAM).

4. Imperial College alumni association.

X. Professional activities

2002–	Co-founder, co-owner and active programmer with Technologismiki (www.technologismiki.com), a software house which develops and maintains more than 25 commercial programs for engineers.
2002–	Self-employed engineer and consultant. Numerous projects completed and delivered in the private sector.
2000–2006	Designer of new products for ZS Charalampakis SA (www.zs-charalampakis.gr), mainly steel components including CAD and CNC programming.
2000–2001	Project supervision in Samos island as a soldier in the Greek Army Corps of Engineers.
1998–2006	Quality assurance supervisor with ZS Charalampakis SA (www.zs-charalampakis.gr), with responsibilities that include development of ISO 9001:1994 quality system and upgrade to the ISO 9001:2000 quality standard.

XI. Projects

Numerous projects completed as a self-employed engineer and consultant, including (indicatively):

- design and construction of 35m-high lighting poles for three stadiums ([Korinthos national stadium](#), [Elefsina stadium](#), [Kerkyra national stadium](#))
- design and construction of numerous large-size outdoor media (up to 30m x 10m)
- design of community centers, school libraries and school sport centers
- design and construction of several industrial buildings
- design of the foundation of several large solar panel installations

XII. Software

Co-founder, co-owner and active programmer with Technologismiki (www.technologismiki.com), a software house which develops and maintains more than 25 commercial programs for engineers, including (indicatively):

- [Biaxial Bending](#), a program that analyzes arbitrary sections in biaxial bending and axial load. Any problem can be analyzed in which the Euler-Bernoulli assumption that plane sections remain plane after bending holds, such as R/C sections with any

reinforcement arrangement, steel sections (elastic & plastic analysis), composite sections with embedded steel sections, holes of any size and shape, different confinement regions, repaired sections, etc.

- [xlOptimizer](#), a generic optimization tool that uses Microsoft Excel as a computational platform. Practically any problem that can be formulated in a spreadsheet can be tackled by this program, with the optional use of VBA and external DLLs which greatly extends the scope of application. It implements a host of customizable, state-of-the-art Evolutionary and Swarm Intelligence Algorithms, homogenized and arranged in an intuitive interface.
- [Hackman](#), a multi-purpose advanced hex editor, disassembler and template editor with more than 1.2 million downloads in download.com.
- Several large-scale programs for the design of civil infrastructure works (sewer networks, water networks, river flow) with embedded optimization modules, TIN models, environmental models, marine design tools, financial tools, etc.