

Curriculum Vitae
Professor Constantin E. Chalioris, Dr. Civil Engineer
Vice Rector of Finance, Planning and Development
(March 2023)



Personal data

- Family name: CHALIORIS
- First name: Constantin
- Place of birth: Chios, Greece
- Year of birth: 1971
- Nationality: Hellenic
- Marital status: Married, with one child
- University address: Democritus University of Thrace (DUTH) - School of Engineering
Department of Civil Engineering - Structural Engineering Science Division
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- Links: Institutional web page: <https://civil.duth.gr/en/author/chaliori/> and <http://utopia.duth.gr/chaliori/>
Scopus: <https://www.scopus.com/authid/detail.uri?authorId=6507070963>
Scholar: https://scholar.google.gr/citations?user=h-8_e34AAAAJ&hl=el&oi=sra
Research gate: <https://www.researchgate.net/profile/Constantin-Chalioris>
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Education - Studies

- June 1988 Graduate of High School of Athens, Greece.
- July 1993 Diploma in Civil Engineering (5-year course), School of Engineering, Democritus University of Thrace, Greece. Grade: 8.37 (84%).
Awards from the State Scholarships Foundation (I.K.Y.) and from the Technical Chamber of Greece for excellences at the 1st, 2nd, 4th and 5th academic year with grades 8.53, 8.21, 8.06 and 9.43, respectively.
- Nov. 1999 Postgraduate Specialization Diploma (M.Sc.) in Structural Engineering (one-year course) entitled: *"New Materials and Technologies for the Design of Reinforced Concrete Structures"*, Department of Civil Engineering, Democritus University of Thrace. Grade point average: 9.10 (91%).
- Feb. 2000 Doctoral Diploma (Ph.D.) in Civil Engineering, Democritus University of Thrace. Dissertation title: *"Study of the Behaviour and the Failure Mechanisms of Plain and Reinforced Concrete Elements in Torsion"*. Grade: 10 (100%).

Academic career

- 1994-2003 Laboratory teaching assistant and associate in research projects of Reinforced Concrete Laboratory, Department of Civil Engineering, Democritus University of Thrace.
- Dec. 2003 *Lecturer,*
- Oct. 2009 *Assistant Professor,*
- July 2014 *Associate Professor,*
- Mar. 2022 *Professor (full)* of Reinforced Concrete Structures,
in Structural Engineering, Civil Engineering Department, School of Engineering, Democritus University of Thrace, in the field of: *"Experimental Research of Linear Reinforced Concrete Members"*.

Academic administration in Democritus University of Thrace (DUTH)

- 2011-2013 Member of the Senate of DUTH as representative of Civil Engineering Department.
- 2016-2019 Director of the Structural Engineering Division of Civil Engineering Department.
- 2019-2022 Chairman of the University Technical Council.
- 2020-2022 Deputy Head of Civil Engineering Department.
- 2022 Director of the Structural Engineering Science Division of Civil Engineering Department.
- since 2023 Vice Rector of Finance, Planning and Development.

Research interests

- Design and analysis of reinforced / prestressed concrete and masonry structures
- Testing of reinforced concrete members under static and cyclic loading
- Repair and strengthening of concrete members and structures (resin injections, Fibre-Reinforced-Polymer materials, reinforced cast-in-place concrete, self-compacting concrete and shotcrete jacketing)
- In-situ testing and capacity assessment of reinforced concrete structures
- Torsion and shear of plain, fibre, reinforced and prestressed concrete members
- Steel fibre reinforced concrete behaviour
- Damage detection and real time structural integrity assessment of concrete members using piezoelectric sensors

Achievements – Distinctions - Awards

- **World's Top 2% Scientists for 3 years (2019-present)** in both lists, **career-long** and every **single year impact**:
Lists of the top 2% most widely cited scientists in different disciplines. Ranking of Stanford University considered the most prestigious worldwide, is based on the bibliometric information contained in the Scopus database. Site of the database list: <https://dx.doi.org/10.17632/btchxktyw.4>.

Awards of published articles in International refereed journals:

- Article published in “*Construction and Building Materials*” (Elsevier):
C.E. Chalioris, “Torsional Strengthening of Rectangular and Flanged Beams using Carbon Fibre-Reinforced-Polymers – Experimental Study”, Construction and Building Materials, Vol. 22, No. 1, pp. 21-29, 2008.
List of “Top 25 Hottest Articles” from Oct. to Dec. 2007 “The Top 25 is a free service which provides lists of most read articles - counted by article downloads on SciVerse ScienceDirect”.
- Article published in “*Case Studies in Construction Materials*” (Elsevier):
C.E. Chalioris et al. “Applications of Smart Piezoelectric Materials in a Wireless Admittance Monitoring System (WiAMS) to Structures - Tests in RC Elements”, Case Studies in Construction Materials, Vol. 5, pp. 1-18, 2016.
List of top 25 “Most Cited Case Studies in Construction Materials Articles” from 2013 till today.
- Article published in “*Fibers*” (MDPI):
C.E. Chalioris et al. “Investigation of a New Strengthening Technique for RC Deep Beams using Carbon FRP Ropes as Transverse Reinforcements”, Fibers, Vol. 6, No. 3, article number 52, 18 pages, 2018.
List of top 10 “Most Cited – All time” articles and awarded as “Editor’s Choice Article”.
- Article published in “*Buildings*” (MDPI):
C.E. Chalioris et al. “Repair of Heavily Damaged RC Beams Failing in Shear using U-Shaped Mortar Jackets”, Buildings, Vol. 9, No. 6, article number 146, 18 pages, 2019.
Awarded with the “Certificate Editor’s Choice Articles” in recognition of the outstanding publication.
- Article published in “*Fibers*” (MDPI):
C.E. Chalioris et al. “U-Jacketing Applications of Fiber-Reinforced Polymers in Reinforced Concrete T-Beams against Shear - Tests and Design”, Fibers, Vol. 8, No. 2, article number 13, 22 pages, 2020.
List of top 10 “Most Cited – Last 36 months” articles and awarded as “Editor’s Choice Article”.
- Article published in “*Sensors*” (MDPI):
C.E. Chalioris et al. “Flexural Damage Diagnosis in Reinforced Concrete Beams Using a Wireless Admittance Monitoring System - Tests and Finite Element Analysis”, Sensors, Vol. 21, No. 3, article number 679, 25 pages, 2021
Awarded with “Certificate Editor’s Choice Articles” in recognition of the outstanding publication.
- Article published in “*Fibers*” (MDPI):
Golias E., Zaprís A.G., Kytinou V.K., Osman M., Koumtzis M., Siapera D., Chalioris C.E., Karayannis C.G., “Application of X-shaped CFRP ropes for Structural Upgrading of Reinforced Concrete Beam-Column Joints under Cyclic Loading – Experimental Study”, Fibers, Vol. 9, No. 7, article number 42, 15 pages, 2021.
List of top 10 “Most Cited – Last 24 months” articles and awarded as “Editor’s Choice Article”.
- Article published in “*Fibers*” (MDPI):
Voutetaki M.E., Naoum M.C., Papadopoulos N.A., Chalioris C.E., “Cracking Diagnosis in Fiber-Reinforced Concrete with Synthetic Fibers using Piezoelectric Transducers”, Fibers, Vol. 10, No. 1, article number 5, 23 pages, 20.
List of top 10 “Most Cited – Last 12 months” articles and awarded as “Editor’s Choice Article”.

As reviewer:

- Awarded as “**2015 ASCE Outstanding Reviewer**” from “*Journal of Structural Engineering*” (American Society of Civil Engineers, ASCE).
- Awarded as “**Top Peer Reviewer 2019**” from “*Publons*” for placing in the top 1% of reviewers in Cross-Field on Publons global reviewer database, determined by the number of peer review reports performed during 2018-19.
- Awarded with the “**Certificate of Excellence in Reviewing 2020**” from “*Nuclear Engineering and Technology*” (Elsevier) in recognition of an outstanding contribution to the quality of the journal for the year 2020.
- Awarded with the “**Certificate of 2020 Outstanding Reviewer Award**” from “*Fibers*” (MDPI).

- Awarded with the “[Certificate of Excellence in Reviewing 2021](#)” from “*Journal of Engineering Research and Reports*” in recognition of an outstanding contribution to the quality of the journal for the year 2021.

Teaching and academic experience

- Teaching in Democritus University of Thrace (DUTH):

Undergraduate courses in Department of Civil Engineering:

- “*Reinforced Concrete Structures III - Design for Seismic Actions*” (9th semester – core course), since 2022-23.
- “*Reinforced Concrete IA*” (7th semester – core course), since 2004-05.
- “*Strength of Materials*” (4th semester – core course), 2021-22 and 2022-23.
- “*Theory of Elasticity*” (3th semester – core course), 2021-22.
- “*Prestressed Concrete*” (9th semester – compulsory course of Structural Engineering), since 2004-05.
- “*Reinforced Concrete II*” (8th semester – compulsory course of Structural Engineering), 2011-12.
- “*Testing and Rehabilitation of Reinforced Concrete Structures*” (9th semester – elective course), since 2010-11.
- “*Composite Structures*” (9th semester – elective course), since 2014-15.
- “*Reinforced Concrete Laboratory Issues*” (8th semester – elective course), since 2004-05.
- “*Design of Masonry Structures*” (8th semester – elective course), since 2004-05.

Undergraduate courses in Department of Environmental Engineering:

- “*Reinforced Concrete Structures*” (8th semester – core course), from 2013-14 till 2015-16.

Postgraduate courses in Structural Engineering Postgraduate Study Programme of Civil Engineering Department:

- “*Design of Reinforced Concrete Members*” (compulsory course), from 2004-05 till 2019.
- “*Software and Computer Science for the Design of Reinforced Concrete Structures*” (elective course), from 2010-11 till 2019.
- “*Design of Reinforced Concrete Members Strengthened with Composite Materials (FRPs)*” (elective course), from 2010-11 till 2019.

- Supervisor of 4 postdoctoral researchers in Civil Engineering Dept. of DUTH:

- V. Kytinou: “*Determination of damage indices in reinforced concrete structures through data from intelligent structural integrity control systems and finite element analysis*” from Mar. 2021.
- P.-M. Kosmidou: “*Investigation of the behaviour and the structural integrity of concrete members with fibre-reinforced polymers*” from Mar. 2021.
- M. Naoum: “*Damage diagnosis of reinforced concrete structures using piezoelectric transducers*” from Nov. 2021.
- A. Thomoglou: “*Upgrading the bearing capacity of masonry structural members*” from Feb. 2023.

Supervisor of 3 completed doctoral dissertations in Civil Engineering Dept. of DUTH:

June 2019: “*Study of reinforced concrete structures strengthened by tension ties - Analytical and experimental investigation*” by Ang. Liolios.

July 2020: “*Alternative methods of non-conventional reinforcing of reinforced concrete elements to improve their behavior under monotonic and cyclic loading, considering the tensile residual stiffness of concrete*” by Violetta Kytinou.

Dec. 2020: “*Failure mechanisms and experimental study of reinforced concrete elements with shear problems*” by Parthena-Maria Kosmidou (co-supervisor with Professor C.G. Karayannis).

- Supervisor of 3 doctoral candidates in Civil Engineering Dept. of DUTH.

- N. Papadopoulos: “*Structural health monitoring of reinforced concrete members using smart piezoelectric transducers connected in network – Experimental investigation*” from Feb. 2013.
- A. Zapis: “*Repair and strengthening of reinforced concrete members and structures using thin jackets*” from June 2017.
- G. Sapidis: “*Inspection and refurbishment of reinforced concrete structural elements with special cement mortars and smart materials*” from Jan. 2019 (co-supervisor with Professor C.G. Karayannis).

- Supervisor of over 200 undergraduate diploma theses and postgraduate dissertations in Civil Eng. Dept. of DUTH.
- Advisor of 3 completed doctoral dissertations in Civil Engineering Dept. of DUTH.
- Advisor of 6 doctoral candidates in Civil Engineering Dept. of DUTH and 1 doctoral candidate in School of Civil Engineering of National Technical University of Athens.
- Examiner of over 20 doctoral dissertations in Civil Engineering Dept. of DUTH, in Architectural Engineering School of Technical University of Crete, in Civil Engineering Dept. of University of Patras, in Civil Engineering Dept. of Aristotle University of Thessaloniki.
- External/Foreign Examiner of doctoral dissertations in Civil Engineering Dept. of Acharya Nagarjuna University, Andhra Pradesh, India (11/2019), in Civil Engineering Faculty of Anna University, Chennai, India (11/2019, 10/2020), in Civil Engineering Faculty of Bharath Institute of Higher Education and Research, Chennai, India (10/2020) and in Civil Engineering Faculty of Vilnius Gediminas Technical University, Lithuania (10/2020).
- Evaluator of research project proposals to be funded by the (a) Romanian National Council for Research and Development (UEFISCDI), (b) Foundation for Science and Technology of Portugal (FCT) and (c) Prince Sultan University,

Riyadh, Saudi Arabia and (d) General Secretariat of Research & Innovation of Greece in the area of Building Technology - Construction Materials.

- Evaluator of electronic book proposals to be funded by Hellenic Academic EBooks – Kallipos (www.kallipos.gr).
- Other related activities:
 - Instructor in seminars of Technical Chamber of Greece, Centre of Employment Opportunities (K.E.K.) and National Institute of Employment Opportunities (I.E.K.), from 1993 till 2000.
 - Lectures in meetings organized by Technical Chamber of Greece, on subjects in the field of Eurocodes (EC2 and EC8), design of reinforced concrete structures, repair and strengthening of structures, since 1995.
 - Member of the educational personnel of the Training Institute (IN.EP.) of National Centre for Public Administration and Local Government (E.K.D.D.A.) for the continuous training (via seminars) of the Engineers of public services and local government, on subjects in the field of construction materials, in-situ testing, Eurocodes (EC2, EC5 and EC6), capacity assessment, repair and strengthening techniques of existing reinforced concrete structures, since 2003.
 - Member of the three-member examination committees of Technical Chamber of Greece (East-Macedonian Dept.) for examining and awarding professional licenses of civil engineers, since 2007.

Consultancy as invited expert

- Assessment of damage and constructional problems in the educational buildings of DUTH, assigned by DUTH administration (2007-today).
- Participation in the drafting of expert opinions following Court orders in court cases related to construction project problems in Thrace region (1997-2005).

Experience in research projects

Research project leader in Civil Engineering Dept. of DUTH

- 2003-today: 5 research projects concerning the “*Experimental investigation of reinforced concrete structural elements*”, funding: Engineers and Public Works Contractors Research Fund (later named as: Unified Insurance Fund for the Self-Employed).
- Dec. 2009 - Mar. 2011: “*New Materials and Technologies for the Design of Reinforced Concrete Structures*”, Post-Graduate Course of Structural Engineering Division, funding: Operational Programme “Education and Primary Vocational Training” (EPEAEK), co-financed by Greece and the European Union.
- Apr. 2015 - Nov. 2015: “*Investigation of the structural system and restoration plan of the buildings of Education Science Departments of DUTH in Alexandroupolis*”, funding: Special Account for Research Funds (SARF) of DUTH. The project investigated the rehabilitation or/and retrofit scenarios of the structural system of the Education Departments buildings located in N. Chili, Alexandroupolis. It included: (a) Determination of the present status of the buildings (geometrical and mechanical characteristics of the structural elements, detection of reinforcement, materials’ properties, morphology and pathology) using in-situ non-destructive tests, surveys and measurements. (b) Analysis of the present structural system of the buildings in order to investigate their deficiencies and their local or global structural problems and to select the proper restoration scheme. (c) Proposal of the restoration or/and upgrading methodology along with the analysis and the design of the restored or/and strengthened structures. (d) Documentation, technical reports and construction drawings of the rehabilitated buildings. The total plan/proposal has been implemented and constructed in 2016-17.
- Mar. 2016 - May 2021: “*Research, educational activities and dissemination of the Engineering Faculty results - Phase A and B*”, funding: Special Account for Research Funds (SARF) of DUTH.
- Apr. 2020 - Feb. 2022: “*Structural Health Monitoring of Fibre-Reinforced Concrete Elements using an Advanced System of Piezoelectric Transducers*”, funding: Operational Programme “Human Resources Development, Education and Lifelong Learning 2014- 2020”, co-financed by Greece and the European Union (European Social Fund - ESF).

Participation in research projects as principal member of research team

- 1997-2003: Research projects concerning the “*Experimental investigation of reinforced concrete structural elements under seismic actions*”, “*Seismic response of reinforced concrete beam-column joints with various shear reinforcement arrangements*”, “*Mechanical properties of steel fibre reinforced concrete*”, “*Testing of steel fibre reinforced concrete floors of tank parking sheds in the zone of responsibility of the 4th Army Corps*”, leader of the projects: Professor C. Karayannis.
- Jan. 2005 - Sept. 2006: Research projects concerning the “*Application of the 1st phase of the research program for the pre-seismic control of school buildings that were designed and constructed without seismic code in the counties of Xanthi Kavala, Evros, Rodopi*”, leader of the projects: Professor A. Karabinis, assigned by the Organization of School Buildings.
- 2012-15: “*THALIS: Development and evaluation of a wireless real-time monitoring system (WiAMS) for structural integrity assessment of concrete structures using a smart piezoelectric sensor network*”, project leader: Professor C.

Providakis, funding: Operational Programme “Education and Lifelong Learning” of the National Strategic Reference Framework (NSRF) - Research Funding Program: THALES. Investing in knowledge society through the European Social Fund, co-financed by Greece and the European Union (European Social Fund - ESF).

- Mar. 2021 - Mar. 2023: “*Risk and Resilience Assessment Center, Prefecture of East Macedonia and Thrace, Greece*”, project leader: Associate Professor I. Dokas, funding: Operational Programme “Competitiveness, Entrepreneurship and Innovation” (NSRF 2014-2020), co-financed by Greece and the European Union (European Regional Development Fund).

Associate and Academic Editor of the journals:

- *Advances in Civil Engineering* (Hindawi Publishing Corporation) – **Associate Editor**
- *Frontiers in Materials – Structural Materials* (Frontiers Media S.A.) – **Associate Editor**
- *Sustainability* (MDPI Publ.) – **Section board member**
- *Fibers* (MDPI Publ.) – **Editorial board member**
- *The Open Civil Engineering Journal* (Bentham Science Publishers) – **Editorial board member**

Guest Editor of Special Issues (SI) of the journals:

- *Polymers* – SI: “*Fiber Reinforced Polymers Applications as Reinforcement of Concrete Structures—Design Aspects, Tests and Analysis*” (coeditor Dr. V.K. Kytinou)
- *Buildings* – SI: “*Research on the Seismic Performance of RC Members of Existing, Modern and Strengthened RC Buildings*” (coeditors Dr. G.I. Kalogeropoulos and Prof. A.-D.G. Tsonos)
- *Sustainability* – SI: “*Sustainable Construction and Building Materials*”
- *Fibers* – 1st SI: “*Steel Fibre Reinforced Concrete Behaviour*”
– 2nd SI: “*Fiber-Reinforced Polymers and Fiber-Reinforced Cement Composites as Concrete Reinforcement*”
– 3rd SI: “*Fiber-Reinforced Polymers and Fiber-Reinforced Cement-Based Mortars in Repair/Strengthening Methods of Masonry and Reinforced Concrete Structural Members*” (coeditor Prof. C.G. Karayannis)

Reviewer in more than 80 peer-reviewed journals (more than 800 papers have been evaluated since 2007). Selection of journals:

Publisher	International journals
ASCE (American Society of Civil Engineers)	<i>Journal of Bridge Engineering, Journal of Composites for Construction, Journal of Structural Engineering</i> (also <u>awarded</u> as: “ 2015 ASCE Outstanding Reviewer ”)
Elsevier	<i>Advances in Engineering Software, Automation in Construction, Case Studies in Construction Materials, Cement and Concrete Composites, Composites Part B, Composite Structures, Construction and Building Materials, Engineering Structures, Journal of Building Engineering, Journal of Physics and Chemistry of Solids, Materials Today Communications, Mechanical Systems and Signal Processing, Nuclear Engineering and Technology</i> (also <u>awarded</u> with the: “ Certificate of Excellence in Reviewing 2020 ”), <i>Scientia Iranica, Structures</i>
Techno Press	<i>Advances in Concrete Construction, Computers and Concrete, Earthquake and Structures, Smart Structures and Systems, Steel and Composite Structures, Structural Engineering and Mechanics</i>
Springer	<i>Asian Journal of Civil Engineering, Bulletin of Earthquake Engineering, Frontiers of Structural and Civil Engineering, International Journal of Concrete Structures and Materials, Journal of Electroceramics, Korean Society of Civil Engineers (KSCE) Journal of Civil Engineering, Materials Science, Meccanica, Sadhana</i>
De Gruyter	<i>Open Engineering</i> (formerly <i>Central European Journal of Engineering</i>), <i>Science and Engineering of Composite Materials</i>
Taylor & Francis	<i>European Journal of Environmental and Civil Engineering, International Journal for Computational Methods in Engineering Science and Mechanics, Mechanics of Advanced Materials and Structures, Structure and Infrastructure Engineering</i>
Hindawi Publ. Corp.	<i>Advances in Civil Engineering, Advances in Materials Science and Engineering, International Journal of Polymer Science, Journal of Structures, The Scientific World Journal</i>
Bentham Sci. Publ.	<i>Recent Patents on Engineering, The Open Civil Engineering Journal</i>
IOP science	<i>Engineering Research Express, Europhysics Letters, Materials Research Express, Smart Materials and Structures</i>
MDPI Publ.	<i>Applied Sciences, Buildings, Designs, Fibers</i> (also <u>awarded</u> with the: “ Certificate of 2020 Outstanding Reviewer Award ”), <i>Infrastructures, Materials, Metals, Molecules, Polymers, Recycling, Sensors, Sustainability</i>
Wiley & Sons	<i>Material Design and Processing Communication, Structural Concrete (fib journal)</i>
Frontiers Media S.A.	<i>Frontiers in Built Environment</i>

Also:

- *ACI SP-344* (American Concrete Institute, ACI-ASCE Committee 445 - Shear and Torsion)
- *Advances in Structural Engineering* (Sage Journals)
- *American Journal of Engineering and Applied Sciences* (Science Publications)
- *Engineering Journal* (Faculty of Engineering, Chulalongkorn University, Thailand)
- *Environmental Engineering and Management Journal* (Gheorghe Asachi Technical University of Iasi)
- *Journal of Civil Engineering and Construction Technology* (Academic Journals)
- *Journal of Civil Engineering and Science* (World Academic Publishing)
- *Journal of Civil Engineering Sciences* (Iran Univ. of Science and Technology - Iran Society of Civil Eng. - Mind Reader Publ.)
- *Materials Research* (Universidade Federal de São Carlos)
- *Mathematical Biosciences and Engineering* (AIMS Press)
- *Multidiscipline Modeling in Materials and Structures* (Emerald Publishing)
- *Natural Hazards and Earth System Sciences* (European Geosciences Union - Copernicus Publications)
- *Science of Advanced Materials* (American Scientific Publishers)
- *Structural Engineering International* (International Association for Bridge and Structural Engineering - IABSE)

Publications (Downloading site: <https://www.dropbox.com/sh/tjnev1md672colm/AADwmUpFPpw9iWjHezAhM8vQa?dl=0>):

Doctoral dissertation

1. Chalioris C.E., “Study of the Behaviour and the Failure Mechanisms of Plain and Reinforced Concrete Elements in Torsion”, **Doctoral Dissertation**, Civil Engineering Dept., School of Engineering, Democritus University of Thrace, Xanthi, Greece, 440 pp., 1999.

International refereed journals

2. [J01] Karayannis C.G., Chalioris C.E., Sideris K.K., “Effectiveness of RC Beam-Column Connection Repairing using Epoxy Resin Injections”, **Journal of Earthquake Engineering**, Vol. 2, No. 2, pp. 217-240, 1998.
3. [J02] Karayannis C.G., Chalioris C.E., “Experimental Validation of Smeared Analysis for Plain Concrete in Torsion”, **Journal of Structural Engineering, ASCE**, Vol. 126, No. 6, pp. 646-653, 2000.
4. [J03] Karayannis C.G., Chalioris C.E., “Capacity of RC Joints Suffered Early-age Cyclic Loading”, **Journal of Earthquake Engineering**, Vol. 4, No. 4, pp. 479-510, 2000.
5. [J04] Karayannis C.G., Chalioris C.E., “Strength of Prestressed Concrete Beams in Torsion”, **Structural Engineering and Mechanics**, Vol. 10, No. 2, pp. 165-180, 2000.
6. [J05] Chalioris C.E., “Experimental Study of the Torsion of Reinforced Concrete Members”, **Structural Engineering and Mechanics**, Vol. 23, No. 6, pp. 713-737, 2006.
7. [J06] Chalioris C.E., “Analytical Model for the Torsional Behaviour of Reinforced Concrete Beams Retrofitted with FRP Materials”, **Engineering Structures**, Vol. 29, No. 12, pp. 3263-3276, 2007.
8. [J07] Chalioris C.E., “Torsional Strengthening of Rectangular and Flanged Beams using Carbon Fibre-Reinforced-Polymers – Experimental Study”, **Construction and Building Materials**, Vol. 22, No. 1, pp. 21-29, 2008.
9. [J08] Karayannis C.G., Chalioris C.E., Sirkelis G.M., “Local Retrofit of Exterior RC Beam-Column Joints using Thin RC Jackets – An Experimental Study”, **Earthquake Engineering and Structural Dynamics**, Vol. 37, No. 5, pp. 727-746, 2008.
10. [J09] Chalioris C.E., Favvata M.J., Karayannis C.G., “Reinforced Concrete Beam-Column Joints with Crossed Inclined Bars under Cyclic Deformations”, **Earthquake Engineering and Structural Dynamics**, Vol. 37, No. 6, pp. 881-897, 2008.
11. [J10] Chalioris C.E., Karayannis C.G., “Effectiveness of the use of Steel Fibres on the Torsional Behaviour of Flanged Concrete Beams”, **Cement and Concrete Composites**, Vol. 31, No. 5, pp. 331-341, 2009.
12. [J11] Chalioris C.E., Pourzitidis C.N., “Rehabilitation of Shear-Damaged Reinforced Concrete Beams using Self-Compacting Concrete Jacketing”, **ISRN Civil Engineering**, Vol. 2012, Article ID 816107, 12 pages, 2012.
13. [J12] Karayannis C.G., Chalioris C.E., “Design of Partially Prestressed Concrete Beams based on the Cracking Control Provisions”, **Engineering Structures**, Vol. 48, pp. 402-416, 2013.
14. [J13] Chalioris C.E., C.P. Papadopoulos, Pourzitidis C.N., Fotis D., Sideris K.K., “Application of a Reinforced Self-Compacting Concrete Jacket in Damaged Reinforced Concrete Beams under Monotonic and Repeated Loading”, **Journal of Engineering**, Vol. 2013, Article ID 912983, 12 pages, 2013.
15. [J14] Chalioris C.E., “Steel Fibrous RC Beams subjected to Cyclic Deformations under Predominant Shear”, **Engineering Structures**, Vol. 49, pp. 104-118, 2013.
16. [J15] Chalioris C.E., “Analytical Approach for the Evaluation of Minimum Fibre Factor Required for Steel Fibrous Concrete Beams under Combined Shear and Flexure”, **Construction and Building Materials**, Vol. 43, pp. 317-336, 2013.
17. [J16] Karayannis C.G., Chalioris C.E., “Shear Tests of Reinforced Concrete Beams with Continuous Rectangular Spiral Reinforcement”, **Construction and Building Materials**, Vol. 46, pp. 86-97, 2013.
18. [J17] Chalioris C.E., Karayannis C.G., “Experimental Investigation of RC Beams with Rectangular Spiral Reinforcement in Torsion”, **Engineering Structures**, Vol. 56, pp. 286-297, 2013.
19. [J18] Chalioris C.E., Thermou G.E., Pantazopoulou S.J., “Behaviour of Rehabilitated RC Beams with Self-Compacting Concrete Jacketing – Analytical Model and Test Results”, **Construction and Building Materials**, Vol. 55, pp. 257-273, 2014.
20. [J19] Providakis C.P., Karayannis C.G., Chalioris C.E., Favvata M.J., Angeli G.M., Papadopoulos N.A., “Usage of PZTs for Damage Evaluation of Steel Reinforcing Bar”, **Scholars Journal of Engineering and Technology**, Vol. 3, No. 1B, pp. 80-93, 2015.

21. [J20] Karayannis C.G., Voutetaki M.E., Chalioris C.E., Providakis C.P., Angeli G.M., “*Detection of Flexural Damage Stages for RC Beams using Piezoelectric Sensors (PZT)*”, **Smart Structures and Systems**, Vol. 15, No. 4, pp. 997-1018, 2015.
22. [J21] Chalioris C.E., Papadopoulos N.A., Angeli G.M., Karayannis C.G., Liolios Ast.A., Providakis C.P., “*Damage Evaluation in Shear-Critical Reinforced Concrete Beam using Piezoelectric Transducers as Smart Aggregates*”, **Open Engineering**, Vol. 5, No. 1, pp. 373-384, 2015.
23. [J22] Karayannis C.G., Chalioris C.E., Angeli G.M., Papadopoulos N.A., Favvata M.J., Providakis C.P., “*Experimental Damage Evaluation of Reinforced Concrete Steel Bars using Piezoelectric Sensors*”, **Construction and Building Materials**, Vol. 105, pp. 227-244, 2016.
24. [J23] Chalioris C.E., Karayannis C.G., Angeli G.M., Papadopoulos N.A., Favvata M.J., Providakis C.P., “*Applications of Smart Piezoelectric Materials in a Wireless Admittance Monitoring System (WiAMS) to Structures - Tests in RC Elements*”, **Case Studies in Construction Materials**, Vol. 5, pp. 1-18, 2016.
25. [J24] Chalioris C.E., K.E. Bantilas, “*Shear Strength of Reinforced Concrete Beam-Column Joints with Crossed Inclined Bars*”, **Engineering Structures**, Vol. 140, pp. 241-255, 2017.
26. [J25] Chalioris C.E., Kosmidou P.-M.K., Papadopoulos N.A., “*Investigation of a New Strengthening Technique for RC Deep Beams using Carbon FRP Ropes as Transverse Reinforcements*”, **Fibers**, Vol. 6, No. 3, article number 52, 18 pages, 2018.
27. [J26] Chalioris C.E., Panagiotopoulos T.A., “*Flexural Analysis of Steel Fibre Reinforced Concrete Members*”, **Computers and Concrete**, Vol. 22, No. 1, pp. 11-25, 2018.
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