November 15, 2023

Víctor Yepes

MSc MEng BEng (Hons) Civil & Structural Engineer, Ph.D.

Full Professor with Tenure in Construction Engineering
(Catedrático de Universidad en Ingeniería de la Construcción)
Institute of Concrete Science and Technology, ICITECH
(Instituto de Ciencia y Tecnología del Hormigón, ICITECH)
Department of Construction Engineering
(Departamento de Ingeniería de la Construcción)
Universitat Politècnica de València
Building 4G, office 21, Camino de Vera, s/n
46022 Valencia (Spain)

E-mail: vyepesp @ cst.upv.es
Personal web page: http://personales.upv.es/vyepesp/
Personal blog page: http://victoryepes.blogs.upv.es/
Scopus Author ID: 57200949536
Web of Science Author: K-9763-2014
ORCID Author: 0000-0001-5488-6001
ResearchGate: https://www.researchgate.net/profile/Victor_Yepes2

EDUCATION

Universitat Politècnica de València, Spain
Doctor of Philosophy, Civil Engineering, Department of Transportation Engineering, Sep 2002
Specialist Degree in Quality Control Management, Department of Applied Statistics and Operational Research, and Quality, June 2000
Bachelor of Science and Master of Science (Honours), Civil Engineering, School of Civil Engineering, June 1988, **achieving rank 1 in his class**.
Academic Excellence Award Social Council of the Univesitat Politècnica de València.
Excellent Research Career Award granted by the Universitat Politècnica de València.
Excellent Research Impact Award granted by the Universitat Politècnica de València.

EXPERIENCE AT THE UNIVERSITAT POLITÈCNICA DE VALÈNCIA

Deputy Director, Department of Construction Engineering: July 2010 - July 2012, July 2014 - present
Academic Head, M.Sc. in Concrete Engineering: June 2008 - February 2017. This Master of Science degree is focused on construction-engineering and fully supported by the Department of Construction Engineering. It aims to provide a comprehensive understanding of concrete as a building material, as well as the necessary skills for analyzing and designing concrete structures. Learn more at http://victoryepes.blogs.upv.es/2015/08/26/presentacion-del-master-universitario-en-ingenieria-del-hormigon/
Full Professor, Department of Construction Engineering: November 2017 - present
Associate Professor, Department of Construction Engineering: April 2008 - November 2017
Part-Time Professor, Department of Construction Engineering: October 1994 - April 2008
Part-Time Professor, Department of Construction Engineering: October 1989 - September 1990
Research Assistant, Department of Transportation Engineering: September 1987 – 1988.

VISITING SCHOLAR

Department of Engineering and Construction Management
Pontificia Universidad Católica de Chile, 2013

PROFESSIONAL ENGINEERING EXPERIENCE

Iberdrola, S.A. (Energy company) Assistant Engineer. 1987.
Dragados y Construcciones, S.A. (Construction company) Civil Engineer and Site Manager. 1989-1992.
Generalitat Valenciana. (Regional government) Director of Infrastructure Engineering and R+D+I. 1992-2008.
Member of the General Council of the Association of Civil Engineers of Spain (2020 - present).

JOURNAL PUBLICATIONS (SCI)

1. GUAYGUA, B.; SÁNCHEZ-GARRIDO, A.; YEPES, V. (2024). **A systematic review of seismic-resistant precast concrete buildings.** *Structures*, (accepted, in press)
2. ZHOU, Z.; ZHOU, J.; ALCALÁ, J.; YEPES, V. (2024). **Thermal coupling optimization of bridge environmental impact under natural conditions.** *Environmental Impact Assessment Review*, 104:107316. DOI:10.1016/j.eiar.2023.107316
3. GARCÍA, J.; LEIVA-ARAOS, A.; DÍAZ-SAAVEDRA, E.; MORAGA, P.; PINTO, H.; YEPES, V. (2023). **Relevance of Machine Learning Techniques in Water Infrastructure Integrity and Quality: A Review Powered by Natural Language Processing**. *Applied Sciences*, (accepted, in press).
4. YEPES-BELLVER, L.; BRUN-IZQUIERDO, A.; ALCALÁ, J.; YEPES, V. (2023). **Embodied energy optimization of prestressed concrete road flyovers by a two-phase Kriging surrogate model.** *Materials*, 16(20); 6767. DOI:10.3390/ma16206767
5. MARTÍNEZ-MUÑOZ, D.; GARCÍA, J.; MARTÍ, J.V.; YEPES, V. (2023). **Deep learning classifier for life cycle optimization of steel-concrete composite bridges.** *Structures*, 57:105347. DOI:10.1016/j.istruc.2023.105347
6. NEGRÍN, I.; KRIPKA, M.; YEPES, V. (2023). **Multi-criteria optimization for sustainability-based design of reinforced concrete frame buildings**. *Journal of Cleaner Production*, 425:139115. DOI:10.1016/j.jclepro.2023.139115
7. ZHOU, Z.; ALCALÁ, J.; YEPES, V. (2023). **Carbon impact assessment of bridge construction based on resilience theory.** *Journal of Civil Engineering and Management*, 29(6):561-576. DOI:10.3846/JCEM.2023.19565.
8. HADIZADEH-BAZAZ, M.; NAVARRO, I.J.; YEPES, V. (2023). **Life Cycle Assessment of a Coastal Concrete Bridge Aided by Non-Destructive Damage Detection Methods.** *Journal of Marine Science and Engineering*, 11(9):1656. DOI:10.3390/jmse11091656
9. NEGRÍN, I.; KRIPKA, M.; YEPES, V. (2023). **Metamodel-assisted meta-heuristic design optimization of reinforced concrete frame structures considering soil-structure interaction.** *Engineering Structures*, 293:116657. DOI:10.1016/j.engstruct.2023.116657
10. NEGRÍN, I.; KRIPKA, M.; YEPES, V. (2023). **Design optimization of welded steel plate girders configured as a hybrid structure.** *Journal of Constructional Steel Research*, 211:108131. DOI:10.1016/j.jcsr.2023.108131.
11. NAVARRO, I.J.; MARTÍ, J.V.; YEPES, V. (2023). **Enhancing sustainability assessment of bridges in aggressive environments through multi-criteria group decision-making**. *DYNA*, 98(5):477-483. DOI:10.6036/10816.
12. SÁNCHEZ-GARRIDO, A.J.; NAVARRO, I.J.; GARCÍA, J.; YEPES, V. (2023). **A systematic literature review on Modern Methods of Construction in building: an integrated approach using machine learning.** *Journal of Building Engineering*, 73:106725. DOI:10.1016/j.jobe.2023.106725.
13. TERREROS-BEDOYA, A.; NEGRÍN, I.; PAYÁ-ZAFORTEZA, I.; YEPES, V. (2023). **Hybrid steel girders: review, advantages and new horizons in research and applications.** *Journal of Constructional Steel Research*, 207:107976. DOI:10.1016/j.jcsr.2023.107976.
14. LEMUS-ROMANI, J.; OSSANDÓN, D.; SEPÚLVEDA, R.; CARRASCO-ASTUDILLO, N.; YEPES, V.; GARCÍA, J. (2023). **Optimizing Retaining Walls through Reinforcement Learning Approaches and Metaheuristic Techniques**. *Mathematics*, 11(9): 2104. DOI:10.3390/math11092104
15. NAVARRO, I.J.; MARTÍ, J.V.; YEPES, V. (2023). **Evaluation of Higher Education Students' Critical Thinking Skills on Sustainability.** *International Journal of Engineering Education*, 39(3):592-603.

16. NEGRÍN, I.; KRIPKA, M.; YEPES, V. (2023). **Metamodel-assisted design optimization in the field of structural engineering: a literature review.** *Structures*, 52:609-631. DOI:10.1016/j.istruc.2023.04.006
17. ZHOU, Z.; ALCALÁ, J.; YEPES, V. (2023). **Experimental Research on Diseases of Emulsified Asphalt Mortar Board for Ballastless Tracks.** *Journal of Materials in Civil Engineering*, 35(6):04023156. DOI:10.1061/JMCEE7.MTENG-15149
18. HADIZADEH-BAZAZ, M.; NAVARRO, I.J.; YEPES, V. (2023). **Life-cycle cost assessment using the power spectral density function in a coastal concrete bridge.** *Journal of Marine Science and Engineering*, 11(2):433. DOI:10.3390/jmse11020433
19. MARÍN, R.; YEPES, V. (2023). **Landscape values in a marina in Granada (Spain): Enhancing landscape management through public participation.** *Land*, 12(2):492. DOI:10.3390/land12020492
20. TRES JUNIOR, F.L.; YEPES, V.; MEDEIROS, G.F.; KRIPKA, M. (2023). **Multi-objective Optimization Applied to the Design of Sustainable Pedestrian Bridges.** *International Journal of Environmental Research and Public Health*, 20(4), 3190. DOI:10.3390/ijerph20043190
21. HADIZADEH-BAZAZ, M.; NAVARRO, I.J.; YEPES, V. (2023). **Power Spectral Density method performance in detecting damages by chloride attack on coastal RC bridge.** *Structural Engineering and Mechanics*, 85(2):197-206. DOI:10.12989/sem.2023.85.2.197.
22. RUIZ-VÉLEZ, A.; ALCALÁ, J.; YEPES, V. (2023). **A parametric study of optimum road modular hinged frames by hybrid metaheuristics.** *Materials*, 16(3):931. DOI:10.3390/ma16030931
23. YEPES, V.; LOPEZ, S. (2023). **The Knowledge sharing capability in innovative behavior: A SEM approach from graduate students' insights.** *International Journal of Environmental Research and Public Health*, 20(2):1284. DOI:10.3390/ijerph20021284
24. MARTÍNEZ-MUÑOZ, D.; GARCÍA, J.; MARTÍ, J.V.; YEPES, V. (2023). **Hybrid swarm intelligence optimization methods for low-embodied energy steel-concrete composite bridges.** *Mathematics*, 11(1):140. DOI: 10.3390/math11010140
25. RUIZ-VÉLEZ, A.; ALCALÁ, J.; YEPES, V. (2023). **Optimal design of sustainable reinforced concrete precast hinged frames.** *Materials*, 16(1):204. DOI:10.3390/ma16010204.
26. ZHOU, Z.; ALCALÁ, J.; YEPES, V. (2022). **Research on Sustainable Development of the Regional Construction Industry Based on Entropy Theory.** *Sustainability*, 14(24): 16645. DOI:10.3390/su142416645
27. PARTSKHALADZE, G.; ALCALÁ, J.; MEDZMARIASHVILI, E.; CHAVLESHVILI, G.; SURGULADZE, B., I.; YEPES, V. (2022). **Heuristic Optimization of a New Type Prestressed Arched Truss.** *Materials*, 15(22): 8144. DOI:10.3390/ma15228144
28. MARTÍNEZ-MUÑOZ, D.; GARCÍA, J.; MARTÍ, J.V.; YEPES, V. (2022). **Optimal design of steel-concrete composite bridge based on a transfer function discrete swarm intelligence algorithm.** *Structural and Multidisciplinary Optimization*, 65:312. DOI:10.1007/s00158-022-03393-9
29. ZHOU, Z.; ALCALÁ, J.; YEPES, V. (2022). **Research on the optimized environment of large bridges based on multi-constraint coupling.** *Environmental Impact Assessment Review*, 97:106914. DOI:10.1016/j.eiar.2022.106914.
30. SALAS, J.; YEPES, V. (2022). **Improved delivery of social benefits through the maintenance planning of public assets.** *Structure and Infrastructure Engineering*, DOI:10.1080/15732479.2022.2121844
31. HADIZADEH-BAZAZ, M.; NAVARRO, I.J.; YEPES, V. (2022). **Performance comparison of structural damage detection methods based on Frequency Response Function and Power Spectral Density.** *DYNA*, 97(5):493-500. DOI:10.6036/10504

32. NAVARRO, I.J.; MARTÍ, J.V.; YEPES, V. (2022). **Analytic Network Process-based sustainability life cycle assessment of concrete bridges in coastal regions.** *Sustainability*, 14(17):10688. DOI:10.3390/su141710688
33. MARTÍN, R., YEPES, V. (2022). **Economic valuation of landscape in marinas: Application to a marina in Spanish Southern Mediterranean coast (Granada, Spain).** *Land*, 11(9):1400. DOI:10.3390/land11091400
34. GARCÍA, J.; VILLAVICENCIO, G.; ALTIMIRAS, F.; CRAWFORD, B.; SOTO, R.; MINTATOGAWA, V.; FRANCO, M.; MARTÍNEZ-MUÑOZ, D.; YEPES, V. (2022). **Machine learning techniques applied to construction: A hybrid bibliometric analysis of advances and future directions.** *Automation in Construction*, 142:104532. DOI:10.1016/j.autcon.2022.104532
35. YEPES-BELLVER, L.; BRUN-IZQUIERDO, A.; ALCALÁ, J.; YEPES, V. (2022). **CO_2-optimization of post-tensioned concrete slab-bridge decks using surrogate modeling**. *Materials*, 15(14):4776. DOI:10.3390/ma15144776
36. MARTÍNEZ-MUÑOZ, D.; GARCÍA, J.; MARTÍ, J.V.; YEPES, V. (2022). **Discrete swarm intelligence optimization algorithms applied to steel-concrete composite bridges.** *Engineering Structures*, 266:114607. DOI:10.1016/j.engstruct.2022.114607
37. MARTÍN, R., YEPES, V. (2022). **Assessing the relationship between landscape and management within marinas: The managers' perception.** *Land*, 11(7):961. DOI:10.3390/land11070961
38. SÁNCHEZ-GARRIDO, A.J.; NAVARRO, I.J.; GARCÍA, J.; YEPES, V. (2022). **An Adaptive ANP & ELECTRE IS-based MCDM Model Using Quantitative Variables.** *Mathematics*, 10(12):2009. DOI:10.3390/math10122009
39. MARTÍNEZ-MARTÍN, F.J.; YEPES, V.; GONZÁLEZ-VIDOSA, F.; HOSPITALER, A.; ALCALÁ, J. (2022). **Optimization design of RC elevated water tanks under seismic loads.** *Applied Sciences*, 12(11):5635. DOI:10.3390/app12115635
40. ZHOU, Z.; ALCALÁ, J.; YEPES, V. (2022). **Regional sustainable development impact through sustainable bridge optimization**. *Structures*, 41, 1061-1076. DOI: 10.1016/j.istruc.2022.05.047
41. VITORIO, P.C., Jr.; YEPES, V.; KRIPKA, M. (2022). **Comparison of Brazilian Social Interest Housing Projects considering Sustainability**. *International Journal of Environmental Research and Public Health*, 19(10):6213. DOI:10.3390/ijerph19106213.
42. FERNÁNDEZ-MORA, V.; NAVARRO, I.J.; YEPES, V. (2022). **Integration of the structural project into the BIM paradigm: a literature review.** *Journal of Building Engineering*, 53:104318. DOI:10.1016/j.jobe.2022.104318.
43. MARTÍNEZ-MUÑOZ, D.; MARTÍ, J.V.; YEPES, V. (2022). **Social Impact Assessment Comparison of Composite and Concrete Bridge Alternatives.** *Sustainability*, 14(9):5186. DOI:10.3390/su14095186..
44. MARTÍNEZ FERNÁNDEZ, P.; VILLALBA SANCHIS, I.; INSA FRANCO, R.; YEPES, V. (2022). **Slab track optimisation using metamodels to improve rail construction sustainability.** *Journal of Construction Engineering and Management*, 148(7):04022053. DOI:10.1061/(ASCE)CO.1943-7862.0002288.
45. SÁNCHEZ-GARRIDO, A.J.; NAVARRO, I.J.; YEPES, V. (2022). **Evaluating the sustainability of soil improvement techniques in foundation substructures.** *Journal of Cleaner Production*, 351: 131463. DOI:10.1016/j.jclepro.2022.131463.
46. MATHERN, A.; PENADÉS-PLÀ, V.; ARMESTO BARROS, J.; YEPES, V. (2022). **Practical metamodel-assisted multi-objective design optimization for improved sustainability and buildability of wind turbine foundations.** *Structural and Multidisciplinary Optimization*, 65:46. DOI:10.1007/s00158-021-03154-0
47. SÁNCHEZ-GARRIDO, A.J.; NAVARRO, I.J.; YEPES, V. (2022). **Multi-criteria decision-making applied to the sustainability of building structures based on Modern**

Methods of Construction. *Journal of Cleaner Production,* 330:129724. DOI:10.1016/j.jclepro.2021.129724

48. YEPES, V.; LOPEZ, S. (2021). **Knowledge management in the construction industry: Current state of knowledge and future research.** *Journal of Civil Engineering and Management*, 27(8):671-680. DOI:10.3846/jcem.2021.16006
49. SIERRA, L.; ARAYA, F.; YEPES, V. (2021). **Consideration of uncertainty and multiple disciplines in the determination of sustainable criteria for rural roads using neutrosophic logic.** *Sustainability*, 13(17):9854. DOI:10.3390/su13179854
50. ATA-ALI, N.; PENADÉS-PLÀ, V.; MARTÍNEZ-MUÑOZ, D.; YEPES, V. (2021). **Recycled versus non-recycled insulation alternatives LCA analysis for different climatic conditions in Spain.** *Resources, Conservation and Recycling*, 175, 105838. DOI:10.1016/j.resconrec.2021.105838
51. HOOSE, A.; YEPES, V.; KRIPKA, M. (2021). **Selection of Production Mix in the Agricultural Machinery Industry considering Sustainability in Decision Making**. *Sustainability*, 13(16), 9110. DOI:10.3390/su13169110
52. MAUREIRA, C.; PINTO, H.; YEPES, V.; GARCÍA, J. (2021). **Towards an AEC-AI industry optimization algorithmic knowledge mapping.** *IEEE Access*, 9:110842-110879. DOI:10.1109/ACCESS.2021.3102215
53. MARTÍN, R.; YEPES, V. (2021). **Bridging the gap between landscape and management within marinas: A review.** *Land*, 10(8), 821; https://doi.org/10.3390/land10080821
54. MARTÍNEZ-MUÑOZ, D.; MARTÍ, J.V.; YEPES, V. (2021). **Comparative life cycle analysis of concrete and composite bridges varying steel recycling ratio.** *Materials*, 14(15):4218. DOI:10.3390/ma14154218
55. ZHOU, Z.; ALCALÁ, J.; YEPES, V. (2021). **Optimized application of sustainable development strategy in international engineering project management.** *Mathematics*, 9(14):1633. DOI:10.3390/math9141633
56. ZHOU, Z.; ALCALÁ, J.; KRIPKA, M.; YEPES, V. (2021). **Life cycle assessment of bridges using Bayesian Networks and Fuzzy Mathematics.** *Applied Sciences*, 11(11):4916. DOI:10.3390/app11114916.
57. BIANCHI, P.F.; YEPES, V.; VITORIO, P.C., Jr.; KRIPKA, M. (2021). **Study of alternatives for the design of sustainable low-income housing in Brazil**. *Sustainability*, 13(9):4757. DOI:10.3390/su13094757
58. SÁNCHEZ-GARRIDO, A.J.; NAVARRO, I.J.; YEPES, V. (2021). **Neutrosophic multi-criteria evaluation of sustainable alternatives for the structure of single-family homes.** *Environmental Impact Assessment Review,* 89:106572. DOI:10.1016/j.eiar.2021.106572
59. NAVARRO, I.J.; MARTÍ, J.V.; YEPES, V. (2021). **Neutrosophic completion technique for incomplete higher-order AHP comparison matrices.** *Mathematics*, 9(5):496. DOI:10.3390/math9050496
60. TANG, M.; LIAO, H.; YEPES, V.; LAURINAVICIUS, A.; TUPENAITE, L. (2021). **Quantifiying and mapping the evolution of a leader journal in the field of civil engineering.** *Journal of Civil Engineering and Management,* 27(2):100-116. DOI:10.3846/jcem.2021.14365
61. MARTÍNEZ-MUÑOZ, D.; MARTÍ, J.V.; GARCÍA, J.; YEPES, V. (2021). **Embodied energy optimization of buttressed earth-retaining walls with hybrid simulated annealing.** *Applied Sciences*, 11(4):1800. DOI:10.3390/app11041800
62. GARCÍA, J.; ASTORGA, G.; YEPES, V. (2021). **An analysis of a KNN perturbation operator: an application to the binarization of continuous metaheuristics.** *Mathematics*, 9(3):225. DOI:10.3390/math9030225.
63. ZHOU, Z.; ALCALÁ, J.; YEPES, V. (2021). **Environmental, economic and social impact assessment: study of bridges in China's five major economic regions.** *International*

Journal of Environmental Research and Public Health, 18(1):122. DOI:10.3390/ijerph18010122

64. NAVARRO, I.J.; PENADÉS-PLÀ, V.; MARTÍNEZ-MUÑOZ, D.; REMPLING, R.; YEPES, V. (2020). **Life cycle sustainability assessment for multi-criteria decision making in bridge design: A review.** *Journal of Civil Engineering and Management*, 26(7):690-704. DOI:10.3846/jcem.2020.13598
65. ZHOU, Z.; ALCALÁ, J.; YEPES, V. (2020). **Bridge Carbon Emissions and Driving Factors Based on a Life-Cycle Assessment Case Study: Cable-Stayed Bridge over Hun He River in Liaoning, China.** *International Journal of Environmental Research and Public Health*, 17(16):5953. DOI:10.3390/ijerph17165953
66. LÓPEZ, S.; YEPES, V. (2020). **Impact of the R&D&I on the performance of Spanish construction companies.** *Advances in Civil Engineering*, 2020: 7835231. DOI:10.1155/2020/7835231
67. PONS, J.J.; VILLALBA SANCHIS, I.; INSA FRANCO R.; YEPES, V. (2020). **Life cycle assessment of a railway tracks substructures: comparison of ballast and ballastless rail tracks.** *Environmental Impact Assessment Review* 85:106444. DOI:10.1016/j.eiar.2020.106444
68. MILANI, C.J.; YEPES, V.; KRIPKA, M. (2020). **Proposal of sustainability indicators for the design of small-span bridges.** *International Journal of Environmental Research and Public Health*, 17(12):4488. DOI:10.3390/ijerph17124488
69. MARTÍNEZ-MUÑOZ, D.; MARTÍ, J.V.; YEPES, V. (2020). **Steel-concrete composite bridges: design, life cycle assessment, maintenance and decision making.** *Advances in Civil Engineering*, 2020:8823370. DOI:10.1155/2020/8823370
70. GARCÍA, J.; MARTÍ, J.V.; YEPES, V. (2020). **The buttressed walls problem: An application of a hybrid clustering particle swarm optimization algorithm.** *Mathematics*, 8(6):862. DOI:10.3390/math8060862
71. PENADÉS-PLÀ, V.; MARTÍNEZ-MUÑOZ, D.; GARCÍA-SEGURA, T.; NAVARRO, I.J.; YEPES, V. (2020). **Environmental and social impact assessment of optimized post-tensioned concrete road bridges.** *Sustainability*, 12(10), 4265. DOI:10.3390/su12104265
72. GARCÍA, J.; YEPES, V.; MARTÍ, J.V. (2020). **A hybrid k-means cuckoo search algorithm applied to the counterfort retaining walls problem.** *Mathematics*, 8(4), 555. DOI:10.3390/math8040555
73. YEPES, V.; MARTÍ, J.V.; GARCÍA, J. (2020). **Black hole algorithm for sustainable design of counterfort retaining walls.** *Sustainability*, 12(7), 2767. DOI:10.3390/su12072767
74. PENADÉS-PLÀ, V.; YEPES, V.; GARCÍA-SEGURA, T. (2020). **Robust decision-making design for sustainable pedestrian concrete bridges.** *Engineering Structures*, 209: 109968. DOI:10.1016/j.engstruct.2019.109968
75. PENADÉS-PLÀ, V.; GARCÍA-SEGURA, T.; YEPES, V. (2020). **Robust design optimization for low-cost concrete box-girder bridge.** *Mathematics*, 8(3): 398; DOI:10.3390/math8030398
76. SÁNCHEZ-GARRIDO, A.J.; YEPES, V. (2020). **Multi-criteria assessment of alternative sustainable structures for a self-promoted, single-family home.** *Journal of Cleaner Production*, 258, 120556. DOI:10.1016/j.jclepro.2020.120556
77. SALAS, J.; YEPES, V. (2020). **Enhancing sustainability and resilience through multi-level infrastructure planning.** *International Journal of Environmental Research and Public Health*, 17(3):962; DOI:10.3390/ijerph17030962
78. NAVARRO, I.J.; YEPES, V.; MARTÍ, J.V. (2020). **Sustainability assessment of concrete bridge deck designs in coastal environments using neutrosophic criteria weights.** *Structure and Infrastructure Engineering*, 16(7): 949-967. DOI:10.1080/15732479.2019.1676791

79. YEPES, V.; DASÍ-GIL, M.; MARTÍNEZ-MUÑOZ, D.; LÓPEZ-DESFILÍS, V.J.; MARTÍ, J.V. (2019). **Heuristic techniques for the design of steel-concrete composite pedestrian bridges**. *Applied Sciences*, 9, 3253; DOI:10.3390/app9163253
80. NAVARRO, I.J.; YEPES, V.; MARTÍ, J.V. (2019). **A review of multi-criteria assessment techniques applied to sustainable infrastructures design.** *Advances in Civil Engineering*, 2019: 6134803. DOI:10.1155/2019/6134803
81. MARTÍN, R.; YEPES, V. (2019). **The concept of landscape within marinas: Basis for consideration in the management.** *Ocean & Coastal Management*, 179: 104815. DOI:10.1016/j.ocecoaman.2019.104815.
82. PARTSKHALADZE, G.; MSHVENIERADZE, I.; MEDZMARIASHVILI, E.; CHAVLESHVILI, G.; YEPES, V.; ALCALÁ, J. (2019). **Buckling Analysis and Stability of Compressed Low Carbon Steel Rods in Elasto-Plastic Region of Material.** *Advances in Civil Engineering*, 2019: 7601260. DOI:10.1155/2019/7601260
83. BOSCARDIN, J.T.; YEPES, V.; KRIPKA, M. (2019). **Optimization of reinforced concrete building frames with automated grouping of columns.** *Automation in Construction*, 104: 331-340. DOI:10.1016/j.autcon.2019.04.024
84. SALAS, J.; YEPES, V. (2019). **VisualUVAM: A Decision Support System Addressing the Curse of Dimensionality for the Multi-Scale Assessment of Urban Vulnerability in Spain.** *Sustainability*, 11(8): 2191. DOI:10.3390/su11082191
85. MARTÍNEZ FERNÁNDEZ, P.; VILLALBA SANCHÍS, I.; YEPES, V.; INSA FRANCO, R. (2019). **A review of modelling and optimisation methods applied to railways energy consumption.** *Journal of Cleaner Production*, 222:153-162. DOI: 10.1016/j.jclepro.2019.03.037
86. KRIPKA, M.; YEPES, V.; MILANI, C.J. (2019). **Selection of sustainable short-span bridge design in Brazil**. *Sustainability*, 11(5):1307. DOI: 10.3390/su11051307
87. SALAS, J.; YEPES, V. (2019). **MS-ReRO and D-ROSE methods: assessing relational uncertainty and evaluating scenarios' risks and opportunities on multi-scale infrastructure systems.** *Journal of Cleaner Production*, 216:607-623. DOI:10.1016/j.jclepro.2018.12.083
88. PENADÉS-PLÀ, V.; GARCÍA-SEGURA, T.; YEPES, V. (2019). **Accelerated optimization method for low-embodied energy concrete box-girder bridge design.** *Engineering Structures*, 179:556-565. DOI:10.1016/j.engstruct.2018.11.015
89. NAVARRO, I.J.; MARTÍ, J.V.; YEPES, V. (2019). **Reliability-based maintenance optimization of corrosion preventive designs under a life cycle perspective.** *Environmental Impact Assessment Review*, 74:23-34. DOI:10.1016/j.eiar.2018.10.001
90. GARCÍA-SEGURA, T.; PENADÉS-PLÀ, V.; YEPES, V. (2018). **Sustainable bridge design by metamodel-assisted multi-objective optimization and decision-making under uncertainty.** *Journal of Cleaner Production*, 202: 904-915. DOI:10.1016/j.jclepro.2018.08.177
91. NAVARRO, I.J.; YEPES, V.; MARTÍ, J.V.; GONZÁLEZ-VIDOSA, F. (2018). **Life cycle impact assessment of corrosion preventive designs applied to prestressed concrete bridge decks.** *Journal of Cleaner Production,* 196: 698-713. DOI:10.1016/j.jclepro.2018.06.110
92. NAVARRO, I.J.; YEPES, V.; MARTÍ, J.V. (2018). **Social life cycle assessment of concrete bridge decks exposed to aggressive environments.** *Environmental Impact Assessment Review*, 72:50-63. DOI:10.1016/j.eiar.2018.05.003
93. DEDE, T.; KRIPKA, M.; TOGAN, V.; YEPES, V.; RAO, R.V. (2018). **Advanced optimization techniques and their applications in civil engineering.** *Advances in Civil Engineering*, 2018: 5913083. DOI:10.1155/2018/5913083
94. PONS, J.J.; PENADÉS-PLÀ, V.; YEPES, V.; MARTÍ, J.V. (2018). **Life cycle assessment of earth-retaining walls: An environmental comparison.** *Journal of Cleaner Production*, 192:411-420. DOI:10.1016/j.jclepro.2018.04.268

95. SIERRA, L.A.; YEPES, V.; PELLICER, E. (2018). **A review of multi-criteria assessment of the social sustainability of infrastructures.** *Journal of Cleaner Production*, 187:496-513. DOI:10.1016/j.jclepro.2018.03.022
96. NAVARRO, I.J.; YEPES, V.; MARTÍ, J.V. (2018). **Life cycle cost assessment of preventive strategies applied to prestressed concrete bridges exposed to chlorides.** *Sustainability*, 10(3):845. DOI:10.3390/su10030845
97. PENADÉS-PLÀ, V.; GARCÍA-SEGURA, T.; MARTÍ, J.V.; YEPES, V. (2018). **An optimization-LCA of a prestressed concrete precast bridge.** *Sustainability*, 10(3):685. DOI:10.3390/su10030685
98. SALAS, J.; YEPES, V. (2018). **Urban vulnerability assessment: Advances from the strategic planning outlook.** *Journal of Cleaner Production*, 179:544-558. DOI:10.1016/j.jclepro.2018.01.088
99. SALAS, J.; YEPES, V. (2018). **A discursive, many-objective approach for selecting more-evolved urban vulnerability assessment models.** *Journal of Cleaner Production*, 176:1231-1244. DOI:10.1016/j.jclepro.2017.11.249
100. SIERRA, L.A.; YEPES, V.; GARCÍA-SEGURA, T.; PELLICER, E. (2018). **Bayesian network method for decision-making about the social sustainability of infrastructure projects.** *Journal of Cleaner Production*, 176:521-534. DOI:10.1016/j.jclepro.2017.12.140
101. GARCÍA-SEGURA, T.; YEPES, V.; FRANGOPOL, D.M. (2017). **Multi-Objective Design of Post-Tensioned Concrete Road Bridges Using Artificial Neural Networks.** *Structural and Multidisciplinary Optimization*, 56(1):139-150. DOI:10.1007/s00158-017-1653-0
102. GARCÍA-SEGURA, T.; YEPES, V.; FRANGOPOL, D.M.; YANG, D.Y. (2017). **Lifetime Reliability-Based Optimization of Post-Tensioned Box-Girder Bridges.** *Engineering Structures*, 145:381-391. DOI:10.1016/j.engstruct.2017.05.013
103. MOLINA-MORENO, F.; GARCÍA-SEGURA; MARTÍ, J.V.; YEPES, V. (2017). **Optimization of Buttressed Earth-Retaining Walls using Hybrid Harmony Search Algorithms.** *Engineering Structures*, 134:205-216. DOI:10.1016/j.engstruct.2016.12.042
104. MOLINA-MORENO, F.; MARTÍ, J.V.; YEPES, V. (2017). **Carbon embodied optimization for buttressed earth-retaining walls: implications for low-carbon conceptual designs.** *Journal of Cleaner Production*, 164:872-884. DOI:10.1016/j.jclepro.2017.06.246
105. PELLICER, E.; YEPES, V.; ORTEGA, A.J.; CARRIÓN, A. (2017). **Market demands on construction management: A view from graduate students.** *Journal of Professional Issues in Engineering Education and Practice*, 143(4):04017005. DOI:10.1061/(ASCE)EI.1943-5541.0000334
106. PENADÉS-PLÀ, V.; MARTÍ, J.V.; GARCÍA-SEGURA, T.; YEPES, V. (2017). **Life-cycle assessment: A comparison between two optimal post-tensioned concrete box-girder road bridges.** *Sustainability*, 9(10):1864. DOI:10.3390/su9101864
107. SIERRA, L.A.; PELLICER, E.; YEPES, V. (2017). **Method for estimating the social sustainability of infrastructure projects.** *Environmental Impact Assessment Review*, 65:41-53. DOI:10.1016/j.eiar.2017.02.004
108. SIERRA, L.A.; YEPES, V.; PELLICER, E. (2017). **Assessing the social sustainability contribution of an infrastructure project under conditions of uncertainty.** *Environmental Impact Assessment Review*, 67:61-72. DOI:10.1016/j.eiar.2017.08.003
109. TORRES-MACHI, C.; PELLICER, E.; YEPES, V.; CHAMORRO, A. (2017). **Towards a sustainable optimization of pavement maintenance programs under budgetary restrictions.** *Journal of Cleaner Production*, 148:90-102. DOI:10.1016/j.jclepro.2017.01.100

110. YEPES, V.; MARTÍ, J.V.; GARCÍA-SEGURA, T.; GONZÁLEZ-VIDOSA, F. (2017). **Heuristics in optimal detailed design of precast road bridges.** *Archives of Civil and Mechanical Engineering*, 17(4):738-749. DOI:10.1016/j.acme.2017.02.006
111. ZAMARRÓN-MIEZA, I.; YEPES, V.; MORENO-JIMÉNEZ, J.M. (2017). **A systematic review of application of multi-criteria decision analysis for aging-dam management.** *Journal of Cleaner Production*, 147:217-230. DOI: 10.1016/j.jclepro.2017.01.092
112. ZASTROW, P.; MOLINA-MORENO, F.; GARCÍA-SEGURA, T.; MARTÍ, J.V.; YEPES, V. (2017). **Life cycle assessment of cost-optimized buttress earth-retaining walls: a parametric study.** *Journal of Cleaner Production*, 140:1037-1048. DOI: 10.1016/j.jclepro.2016.10.085
113. PENADÉS-PLÀ, V.; GARCÍA-SEGURA, T.; MARTÍ, J.V.; YEPES, V. (2016). **A review of multi-criteria decision making methods applied to the sustainable bridge design.** *Sustainability*, 8(12):1295. DOI:10.3390/su8121295
114. GARCÍA-SEGURA, T.; YEPES, V. (2016). **Multiobjective optimization of post-tensioned concrete box-girder road bridges considering cost, CO_2 emissions, and safety.** *Engineering Structures*, 125:325-336. DOI:10.1016/j.engstruct.2016.07.012
115. YEPES, V.; TORRES-MACHÍ, C.; CHAMORRO, A.; PELLICER, E. (2016). **Optimal pavement maintenance programs based on a hybrid greedy randomized adaptive search procedure algorithm.** *Journal of Civil Engineering and Management*, 22(4):540-550. DOI:10.3846/13923730.2015.1120770
116. MARTÍ, J.V.; GARCÍA-SEGURA, T.; YEPES, V. (2016). **Structural design of precast-prestressed concrete U-beam road bridges based on embodied energy.** *Journal of Cleaner Production*, 120:231-240. DOI:10.1016/j.jclepro.2016.02.024
117. PELLICER, E.; SIERRA, L.A.; YEPES, V. (2016). **Appraisal of infrastructure sustainability by graduate students using an active-learning method.** *Journal of Cleaner Production*, 113:884-896. DOI:10.1016/j.jclepro.2015.11.010
118. SIERRA, L.A.; PELLICER, E.; YEPES, V. (2016). **Social sustainability in the life cycle of Chilean public infrastructure.** *Journal of Construction Engineering and Management*, 142(5): 05015020. DOI:10.1061/(ASCE)CO.1943-7862.0001099
119. YEPES, V.; PELLICER, E.; ALARCÓN, L.F.; CORREA, L.C. (2016). **Creative innovation in Spanish construction firms.** *Journal of Professional Issues in Engineering Education and Practice*, 142 (1): 04015006. DOI:10.1061/(ASCE)EI.1943-5541.0000251
120. TORRES-MACHÍ, C.; CHAMORRO, A.; PELLICER, E.; YEPES, V.; VIDELA, C. (2015). **Sustainable pavement management: Integrating economic, technical, and environmental aspects in decision making.** *Transportation Research Record*, 2523:56-63. DOI:10.3141/2523-07
121. GARCÍA-SEGURA, T.; YEPES, V.; ALCALÁ, J.; PÉREZ-LÓPEZ, E. (2015). **Hybrid harmony search for sustainable design of post-tensioned concrete box-girder pedestrian bridges**. *Engineering Structures*, 92:112-122. DOI:10.1016/j.engstruct.2015.03.015
122. LUZ, A.; YEPES, V.; GONZÁLEZ-VIDOSA, F.; MARTÍ, J.V. (2015). **Design of open reinforced concrete abutments road bridges with hybrid stochastic hill climbing algorithms.** *Informes de la Construcción*, 67(540), e114. DOI:10.3989/ic.14.089
123. MARTÍ, J.V.; YEPES, V.; GONZÁLEZ-VIDOSA, F. (2015). **Memetic algorithm approach to designing of precast-prestressed concrete road bridges with steel fiber-reinforcement.** *Journal of Structural Engineering*, 141(2): 04014114. DOI:10.1061/(ASCE)ST.1943-541X.0001058
124. YEPES, V.; GARCÍA-SEGURA, T.; MORENO-JIMÉNEZ, J.M. (2015). **A cognitive approach for the multi-objective optimization of RC structural problems.** *Archives*

of Civil and Mechanical Engineering, 15(4):1024-1036. DOI:10.1016/j.acme.2015.05.001

125. YEPES, V.; MARTÍ, J.V.; GARCÍA-SEGURA, T. (2015). **Cost and CO_2 emission optimization of precast-prestressed concrete U-beam road bridges by a hybrid glowworm swarm algorithm.** *Automation in Construction*, 49:123-134. DOI:10.1016/j.autcon.2014.10.013

126. MARTÍ, J.V.; YEPES, V.; GONZÁLEZ-VIDOSA, F.; LUZ, A. (2014). **Automated design of prestressed concrete precast road bridges with hybrid memetic algorithms.** *Revista Internacional de Métodos Numéricos para Cálculo y Diseño en Ingeniería*, 30(3), 145-154. DOI:10.1016/j.rimni.2013.04.010

127. TORRES-MACHÍ, C.; CHAMORRO, A.; YEPES, V.; PELLICER, E. (2014). **Current models and practices of economic and environmental evaluation for sustainable network-level pavement management.** *Revista de la Construcción*, 13(2): 49-56. DOI:10.4067/S0718-915X2014000200006

128. TORRES-MACHÍ, C.; CHAMORRO, A.; VIDELA, C.; PELLICER, E.; YEPES, V. (2014**). An iterative approach for the optimization of pavement maintenance management at the network level.** *The Scientific World Journal*, 2014, 524329. DOI:10.1155/2014/524329

129. GARCÍA-SEGURA, T.; YEPES, V.; MARTÍ, J.V.; ALCALÁ, J. (2014). **Optimization of concrete I-beams using a new hybrid glowworm swarm algorithm.** *Latin American Journal of Solids and Structures*, 11(7):1190–1205. DOI:10.1590/S1679-78252014000700007

130. GARCÍA-SEGURA, T.; YEPES, V.; ALCALÁ, J. (2014). **Life-cycle greenhouse gas emissions of blended cement concrete including carbonation and durability.** *International Journal of Life Cycle Assessment*, 19(1):3-12. DOI:10.1007/s11367-013-0614-0

131. PELLICER, E.; YEPES, V.; CORREA, C.L.; ALARCÓN, L.F. (2014). **Model for Systematic Innovation in Construction Companies.** *Journal of Construction Engineering and Management*, 140(4):B4014001. DOI:10.1061/(ASCE)CO.1943-7862.0000468

132. MARTÍ-VARGAS, J.R.; FERRI, F.J.; YEPES, V. (2013). **Prediction of the transfer length of prestressing strands with neural networks.** *Computers and Concrete*, 12(2):187-209. DOI:10.12989/cac.2013.12.2.187

133. TORRES-MACHÍ, C.; YEPES, V.; ALCALA, J.; PELLICER, E. (2013). **Optimization of high-performance concrete structures by variable neighborhood search.** *International Journal of Civil Engineering*, 11(2):90-99. DOI: 10.1590/S1679-78252014000700007

134. MARTÍNEZ-MARTÍN, F.; GONZÁLEZ-VIDOSA, F.; HOSPITALER, A.; YEPES, V. (2013). **A parametric study of optimum tall piers for railway bridge viaducts.** *Structural Engineering and Mechanics*, 45(6): 723-740. DOI: 10.12989/sem.2013.45.6.723

135. PONZ-TIENDA, J.L.; YEPES, V.; PELLICER, E.; MORENO-FLORES, J. (2013). **The resource leveling problem with multiple resources using an adaptive genetic algorithm.** *Automation in Construction*, 29(1):161-172. DOI:10.1016/j.autcon.2012.10.003

136. TORRES-MACHÍ, C.; CARRIÓN, A.; YEPES, V.; PELLICER, E. (2013). **Employability of graduate students in construction management.** *Journal of Professional Issues in Engineering Education and Practice*, 139(2):163-170. DOI:10.1061/(ASCE)EI.1943-5541.0000139

137. MARTÍ, J.V.; GONZÁLEZ-VIDOSA, F.; YEPES, V.; ALCALÁ, J. (2013). **Design of prestressed concrete precast road bridges with hybrid simulated annealing.** *Engineering Structures*, 48:342-352. DOI:10.1016/j.engstruct.2012.09.014

138. PELLICER, E.; YEPES, V.; ORTEGA, A.J. (2013). **Method for planning a graduate program in construction management.** *Journal of Professional Issues in Engineering Education and Practice*, 139(1):33-41. DOI:10.1061/(ASCE)EI.1943-5541.0000120
139. CASTRO, A.L.; YEPES, V.; PELLICER, E.; CUÉLLAR-REYES, A.J. (2012). **Knowledge management in the construction industry: state of the art and trends in research.** *Revista de la Construcción*, 11(3): 62-73. DOI: 10.4067/S0718-915X2012000300006
140. CARBONELL, A.; YEPES, V.; GONZÁLEZ-VIDOSA, F. (2012). **Automatic design of concrete vaults using iterated local search and extreme value estimation.** *Latin American Journal of Solids and Structures*, 9(6):675-689.
141. MARTINEZ-MARTIN, F.J.; GONZALEZ-VIDOSA, F.; HOSPITALER, A.; YEPES, V. (2012). **Multi-objective optimization design of bridge piers with hybrid heuristic algorithms.** *Journal of Zhejiang University-SCIENCE A (Applied Physics & Engineering)*, 13(6):420-432. DOI:10.1631/jzus.A1100304
142. PELLICER, E.; CORREA, C.L.; YEPES, V.; ALARCÓN, L.F. (2012). **Organizational improvement through standardization of the innovation process in construction firms.** *EMJ-Engineering Management Journal*, 24(2): 40-53. DOI: 10.1080/10429247.2012.11431935
143. YEPES, V.; GONZÁLEZ-VIDOSA, F.; ALCALÁ, J.; VILLALBA, P. (2012). **CO_2-Optimization Design of Reinforced Concrete Retaining Walls based on a VNS-Threshold Acceptance Strategy.** *Journal of Computing in Civil Engineering*, 26 (3):378-386. DOI:10.1061/(ASCE)CP.1943-5487.0000140
144. YEPES, V.; PELLICER, E.; ORTEGA, J.A. (2012). **Designing a benchmark indicator for managerial competences in construction at the graduate level.** *Journal of Professional Issues in Engineering Education and Practice,* 138(1): 48-54. DOI:10.1061/(ASCE)EI.1943-5541.0000075
145. PONZ-TIENDA, J.L.; PELLICER, E.; YEPES, V. (2012). **Complete fuzzy scheduling and fuzzy earned value management in construction projects.** *Journal of Zhejiang University-SCIENCE A (Applied Physics & Engineering)*, 13(1):56-68. DOI:10.1631/jzus.A1100160
146. NARANJO, G.; PELLICER, E.; YEPES, V. (2011). **Marketing in construction industry: state of knowledge and current trends.** *DYNA*, 78(170):245-253.
147. CARBONELL, A.; YEPES, V.; GONZÁLEZ-VIDOSA, F. (2011). **Global best local search applied to the economic design of reinforced concrete vaults.** *Revista Internacional de Métodos Numéricos para Cálculo y Diseño en Ingeniería*, 27(3):227-235. DOI: 10.1016/j.rimni.2011.07.003
148. CARBONELL, A.; GONZÁLEZ-VIDOSA, F.; YEPES, V. (2011). **Design of reinforced concrete road vaults by heuristic optimization.** *Advances in Engineering Software*, 42(4): 151-159. DOI:10.1016/j.advengsoft.2011.01.002
149. VEA, F.J.; PÉREZ, J.; PELLICER, E.; YEPES, V. (2010). **A system for the dimensional control and high-precision layout of unique prefabricated elements.** *Revista de la Construcción*, 9(2): 116-125.
150. PEREA, C.; YEPES, V.; ALCALÁ, J.; HOSPITALER, A.; GONZÁLEZ-VIDOSA, F. (2010). ***A parametric study of optimum road frame bridges by threshold acceptance.*** *Indian Journal of Engineering & Materials Sciences*, 17(6):427-437.
151. PAYÁ-ZAFORTEZA, I.; YEPES, V.; GONZÁLEZ-VIDOSA, F.; HOSPITALER, A. (2010). **On the Weibull cost estimation of building frames designed by simulated annealing.** *Meccanica*, 45(5): 693-704. DOI:10.1007/s11012-010-9285-0
152. MARTÍNEZ, F.J.; GONZÁLEZ-VIDOSA, F.; HOSPITALER, A.; YEPES, V. (2010). **Heuristic Optimization of RC Bridge Piers with Rectangular Hollow Sections.** *Computers & Structures*, 88(5-6): 375-386. DOI:10.1016/j.compstruc.2009.11.009

153. YEPES, V.; DÍAZ, J.; GONZÁLEZ-VIDOSA, F.; ALCALÁ, J. (2009). **Statistical Characterization of Prestressed Concrete Road Bridge Decks.** *Revista de la Construcción*, 8(2):95-109.
154. PAYÁ-ZAFORTEZA, I.; YEPES, V.; HOSPITALER, A.; GONZÁLEZ-VIDOSA, F. (2009). **CO_2-Optimization of Reinforced Concrete Frames by Simulated Annealing.** *Engineering Structures*, 31(7): 1501-1508. DOI: 10.1016/j.engstruct.2009.02.034
155. YEPES, V.; ALCALÁ, J.; PEREA, C.; GONZÁLEZ-VIDOSA, F. (2008). **A Parametric Study of Optimum Earth Retaining Walls by Simulated Annealing.** *Engineering Structures*, 30(3): 821-830. DOI:10.1016/j.engstruct.2007.05.023
156. PEREA, C.; ALCALÁ, J.; YEPES, V.; GONZÁLEZ-VIDOSA, F.; HOSPITALER, A. (2008). **Design of Reinforced Concrete Bridge Frames by Heuristic Optimization.** *Advances in Engineering Software*, 39(8): 676-688. DOI:10.1016/j.advengsoft.2007.07.007
157. PAYÁ, I.; YEPES, V.; GONZÁLEZ-VIDOSA, F.; HOSPITALER, A. (2008). **Multiobjective Optimization of Reinforced Concrete Building Frames by Simulated Annealing.** *Computer-Aided Civil and Infrastructure Engineering*, 23(8): 596-610. DOI:10.1111/j.1467-8667.2008.00561.x
158. YEPES, V.; MEDINA, J.R. (2006). **Economic Heuristic Optimization for Heterogeneous Fleet VRPHESTW.** *Journal of Transportation Engineering*, 132(4): 303-311. DOI:10.1061/(ASCE)0733-947X(2006)132:4(303)
159. PAYÁ, I.; YEPES, V.; CLEMENTE, J.J.; GONZÁLEZ-VIDOSA, F. (2006). **Heuristic optimization of reinforced concrete building frames.** *Revista Internacional de Métodos Numéricos para Cálculo y Diseño en Ingeniería*, 22(3): 241-259.
160. YEPES, V.; MEDINA, J.R. (2005). **Land Use Tourism Models in Spanish Coastal Areas. A Case Study of the Valencia Region.** *Journal of Coastal Research*, SI 49: 83-88.
161. MEDINA, J.R.; YEPES, V. (2003). **Optimization of touristic distribution networks using genetic algorithms.** *SORT*, 27(1): 95-112.

ACADEMIC BOOKS

- YEPES, V. (2023). ***Maquinaria y procedimientos de construcción. Problemas resueltos.*** Colección Académica. Editorial Universitat Politècnica de València, 562 pp. Ref. 376. ISBN 978-84-1396-174-3
- MARTÍNEZ-PAGÁN, P.; YEPES, V.; MARTÍNEZ-SEGURA, M.A. (2023). ***Ejercicios resueltos de sistemas de transporte continuo: bombas y cintas transportadoras***. Ediciones UPCT. Universidad Politécnica de Cartagena, 284 pp.
- YEPES, V. (2022). ***Gestión de costes y producción de maquinaria de construcción***. Colección Manual de Referencia, serie Ingeniería Civil. Editorial Universitat Politècnica de València, 243 pp. Ref. 442.
- YEPES, V. (2021). ***Procedimientos de construcción para la compactación y mejora del terreno.*** Colección Manual de Referencia, 1ª edición. Editorial Universitat Politècnica de València, 426 pp. Ref. 428. ISBN: 978-84-9048-603-0.
- YEPES, V.; NAVARRO, I.J. (Eds.) (2021). ***Trends in Sustainable Buildings and Infrastructure***. MPDI, 272 pp., Basel, Switzerland. ISBN: 978-3-0365-0914-3
- YEPES, V.; MARTÍ, J.V. (2021). ***Sustainable Construction II***. MPDI, 114 pp., Basel, Switzerland. ISBN 978-3-0365-0484-1
- YEPES, V.; GARCÍA-SEGURA, T. (2021). ***Sustainable Construction***. MPDI, 230 pp., Basel, Switzerland. ISBN 978-3-0365-0482-7
- YEPES, V.; MORENO-JIMÉNEZ, J.M. (Eds.) (2020). ***Optimization for Decision Making II***. MPDI, 302 pp., Basel, Switzerland. ISBN 978-3-03943-607-1
- YEPES, V.; MORENO-JIMÉNEZ, J.M. (Eds.) (2020). ***Optimization for Decision Making***. MPDI, 290 pp., Basel, Switzerland. ISBN: 978-3-03943-221-9. DOI:10.3390/books978-3-03943-221-9
- YEPES, V. (2020). ***Procedimientos de construcción de cimentaciones y estructuras de contención.*** Colección Manual de Referencia, 2ª edición. Editorial Universitat Politècnica de València, 480 pp. Ref. 328. ISBN: 978-84-9048-903-1.
- PELLICER, E.; ADAM, J.M.; YEPES, V.; SINGH, A.; YAZDANI, S. (Eds.) (2017). ***Resilient Structures and Sustainable Construction***. ISEC Press. ISBN: 978-0-9960437-4-8.
- YEPES, V. (2016). ***Procedimientos de construcción de cimentaciones y estructuras de contención***. Colección Manual de Referencia. Editorial Universitat Politècnica de València, 326 pp. ISBN: 978-84-9048-457-9.
- YEPES, V. (2015). ***Coste, producción y mantenimiento de maquinaria para construcción.*** Editorial Universitat Politècnica de València, 155 pp. ISBN: 978-84-9048-301-5.
- PELLICER, E.; YEPES, V.; TEIXEIRA, J.C.; MOURA, H.P.; CATALÁ, J. (2014). *Construction Management*. Wiley Blackwell, 316 pp. ISBN: 978-1-118-53957-6.
- PELLICER, E.; YEPES, V.; TEIXEIRA, J.M.C.; MOURA, H.; CATALÁ, J. (2008). ***Construction Management.*** Construction Managers' Library Leonardo da Vinci: PL/06/B/F/PP/174014. Ed. Warsaw University of Technology, 231 pp. ISBN: 83-89780-48-8.
- YEPES, V. (2002). ***Optimización heurística económica aplicada a las redes de transporte del tipo VRPTW.*** Tesis Doctoral. Escuela Técnica Superior de Ingenieros de Caminos, Canales y Puertos. Universitat Politècnica de València. 352 pp. ISBN: 0-493-91360-2.

- YEPES, V. (Dir.) (2001). ***La seguridad contra incendios en establecimientos turísticos*.** Editorial de la Universitat Politècnica de València. Ref.:2001-2311. Valencia, pp 7-9. Depósito Legal: V-450-2001. ISBN: 84-7721-980-X.
- YEPES, V. (1997). ***Equipos de movimiento de tierras y compactación. Problemas resueltos.*** Colección Libro Docente nº 97.439. Ed. Universitat Politècnica de València. 253 pág. Depósito Legal: V-4598-1997. ISBN: 84-7721-551-0.

TEACHING NOTES AND BOOKS

- YEPES, V.; MARTÍ, J.V. (2017). **Máquinas, cables y grúas empleados en la construcción**. Editorial de la Universitat Politècnica de València. Ref. 814. Valencia, 210 pp.
- YEPES, V. (2014). **Maquinaria para la fabricación y puesta en obra de mezclas bituminosas**. Apuntes de la Universitat Politècnica de València. Ref. 749.
- YEPES, V. (2014). **Maquinaria para sondeos y perforaciones.** Apuntes de la Universitat Politècnica de València, Ref. 209. Valencia, 89 pp.
- YEPES, V. (2014). **Maquinaria de movimiento de tierras.** Apuntes de la Universitat Politècnica de València, Ref. 204. Valencia, 158 pp.
- YEPES, V. (2014). **Equipos de compactación superficial.** Apuntes de la Universitat Politècnica de València, Ref. 187. Valencia, 113 pp.
- MARTÍ, J.V.; YEPES, V.; GONZÁLEZ, F. (2014). **Fabricación, transporte y colocación del hormigón.** Apuntes de la Universitat Politècnica de València. 189 pp.
- MARTÍ, J.V.; YEPES, V.; GONZÁLEZ, F.; ALCALÁ, J. (2012). **Técnicas de voladuras y excavación en túneles.** Apuntes de la Universitat Politècnica de València. Ref. 530, 165 pp.
- YEPES, V.; MARTÍ, J.V.; GONZÁLEZ-VIDOSA, F.; ALCALÁ, J. (2012). **Maquinaria auxiliar y equipos de elevación.** Editorial de la Universitat Politècnica de València. Ref. 814. Valencia, 200 pp. Depósito Legal: V-316-2012.
- YEPES, V.; MARTÍ, J.V.; GONZÁLEZ-VIDOSA, F.; ALCALÁ, J. (2012). **Técnicas de planificación y control de obras.** Editorial de la Universitat Politècnica de València. Ref. 189. Valencia, 94 pp. Depósito Legal: V-423-2012.
- CLEMENTE, J.J.; GONZÁLEZ-VIDOSA, F.; YEPES, V.; ALCALÁ, J.; MARTÍ, J.V. (2010). **Temas de procedimientos de construcción. Equipos de dragado.** Editorial de la Universitat Politècnica de València. Ref. 2010.4038. Valencia, 74 pp. Depósito Legal: V-3708-2006.
- YEPES, V. (2006). **Calidad en ingeniería civil: Normas ISO.** Máster Universitario en Consultoría de Ingeniería Civil. Colegio de Ingenieros de Caminos, Canales y Puertos. Escuela Técnica Superior de Ingenieros de Caminos, Canales y Puertos. Departamento de Ingeniería de la Construcción y Proyectos de Ingeniería Civil.
- MARTÍ, J.V.; GONZÁLEZ, F.; YEPES, V. (2005). **Temas de procedimientos de construcción. Extracción y tratamiento de áridos.** Editorial de la Universidad Politécnica de Valencia. Ref. 2005.165. Valencia, 74 pp.
- YEPES, V. (2004). **Técnicas de programación de proyectos.** Asignatura "Planificación de Proyectos". Máster Universitario en Consultoría de Ingeniería Civil. Colegio de Ingenieros de Caminos, Canales y Puertos. Escuela Técnica Superior de Ingenieros de Caminos, Canales y Puertos. Departamento de Ingeniería de la Construcción y Proyectos de Ingeniería Civil. 72 pp.

- MARTÍ, J.V.; GONZÁLEZ, F.; YEPES, V. (2004). **Temas de procedimientos de construcción. Mejora de terrenos.** Editorial de la Universidad Politécnica de Valencia. Ref. 2004.844. Valencia, 52 pp.
- MARTÍ, J.V.; YEPES, V.; GONZÁLEZ, F. (2004). **Temas de procedimientos de construcción. Cimbras, andamios y encofrados.** Editorial de la Universidad Politécnica de Valencia. Ref. 2004.441. Valencia, 50 pp.
- YEPES, V. (2003). **Apuntes de optimización heurística en ingeniería.** Editorial de la Universidad Politécnica de Valencia. Ref. 2003.249. Valencia, 266 pp. Depósito Legal: V-2720-2003.
- GONZÁLEZ, F.; MARTÍ, J.V.; YEPES, V.; DOMINGO, A. (2003). **Imágenes de construcción de pasos superiores, puentes de vigas y cajones hincados.** Editorial de la Universidad Politécnica de Valencia. Ref. 2003.342. Valencia, 102 pp. Depósito Legal: V-463-2003.
- YEPES, V. (2001). **Planificación, programación y control en la construcción.** Servicio de Publicaciones de la Universidad Politécnica de Valencia. SP.UPV-362. Depósito Legal: V-1356-2001.
- YEPES, V. (2001). **Garantía de calidad en la construcción. Tomo 1.** Servicio de Publicaciones de la Universidad Politécnica de Valencia. SP.UPV-660. Depósito Legal: V-3150-2001.
- YEPES, V. (2001). **Garantía de calidad en la construcción. Tomo 2**. Servicio de Publicaciones de la Universidad Politécnica de Valencia. SP.UPV-961. Depósito Legal: V-3151-2001.
- YEPES, V. (1999). **Prácticas de equipos de excavación, transporte y compactación de tierras.** Servicio de Publicaciones de la Universidad Politécnica de Valencia. SP.UPV-4036. 129 pp. Depósito Legal: V-5208-1999.
- YEPES, V. (1995). **Maquinaria de movimiento de tierras.** Servicio de Publicaciones de la Universidad Politécnica de Valencia. SP.UPV-264. 144 pp.

MEMBER OF EDITORIAL BOARDS

- Structure & Infrastructure Engineering (SCI Journal). Associate Editor.
- Advances in Civil Engineering (SCI Journal). Associate Editor.
- Advances in Concrete Construction (SCI Journal)
- Revista de la Construcción (SCI Journal)
- Structural Engineering and Mechanics (SCI Journal)
- Sustainability (SCI Journal)
- Mathematics (SCI Journal)
- Cuadernos de Turismo
- International Journal of Architectural Engineering Technology
- Journal of Construction Engineering, Management & Innovation
- Journal of Sustainability Research
- Revista de Ciências Exatas Aplicadas e Tecnológicas da Universidade de Passo Fundo, CIATEC-UPF

PUBLICATIONS REVIEWER (SCI)

- Advances in Structural Engineering
- Applied Sciences (Basel)
- Archives of Civil and Mechanical Engineering
- Automation in Construction
- Boletín de la Asociación de Geógrafos Españoles
- Carbon Management
- Cement & Concrete Composites
- Computer-Aided Civil and Infrastructure Engineering
- Computers & Concrete
- Construction and Building Materials
- DYNA Ingeniería e Industria
- Energy and Buildings
- Engineering Optimization
- Engineering Structures
- Enrivonmental Impact Assessment Review
- Environmental Science & Policy
- Mathematical Problems in Engineering
- Informes de la Construcción
- International Journal of Civil Engineering
- International Journal of Environmental Research and Public Health
- International Journal of Geomechanics
- International Journal of Pavement Research and Technology
- International Transactions in Operational Research
- ISPRS International Journal of Geo-Information
- Journal of Applied Statistics
- Journal of Bridge Engineering
- Journal of Business Research
- Journal of Civil Engineering and Management
- Journal of Cleaner Production
- Journal of Engineering, Design and Technology
- Journal of Performance of Constructed Facilities

- Journal of Zhejiang University-SCIENCE A
- Latin American Journal of Solids and Structures
- Materials
- Mathematical Problems in Engineering
- Neural Computing & Applications
- Neural Computing & Applications
- Optimization and Engineering
- Periodica Polytechnica Civil Engineering
- Resources, Conservation & Recycling
- Revista de la Construcción
- Revista Innovar Journal
- Structural and Multidisciplinary Optimization
- Structural Engineering and Mechanics
- Structural Engineering International
- Sustainable Cities and Society
- Sustainability

PH.D. STUDENTS ADVISOR

- MARTÍNEZ MUÑOZ, DAVID. Optimal deep learning assisted design of socially and environmentally efficient steel concrete composite bridges under constrained budgets. 19/07/23
- ZHOU, ZHIWU. Life cycle optimization analysis of bridge sustainable development. 13/01/23
- PENADÉS PLÀ, VICENT. Life cycle sustainability post-tensioned box girder bridge design by metamodel-assisted optimization and decision-making under uncertainty. 12/03/20
- NAVARRO MARTÍNEZ, IGNACIO J. Life cycle assessment applied to the sustainable design of prestressed bridges in coastal environment. 22/11/19
- SALAS HERRANZ, JORGE. Vulnerabilidad Urbana, nueva caracterización y metodología para el diseño de escenarios óptimos. 01/03/19
- SIERRA VARELA, LEONARDO A. Evaluación multicriterio de la sostenibilidad social para el desarrollo de proyectos de infraestructuras. 27/10/17
- GARCÍA SEGURA, TATIANA. Efficient design of post-tensioned concrete box-girder road bridges based on sustainable multi-objective criteria. 30/09/16
- NAVARRO FERRER, FERNANDO. Modelos predictivos de las características prestacionales de hormigones fabricados en condiciones industriales. 03/06/16
- LUZ IVARS, ALEJANDRO JOSÉ. Diseño óptimo de estribos abiertos de hormigón armado en puentes de carretera mediante optimización heurística. 12/01/16
- RODRÍGUEZ-CALDERITA FACUNDI, ÁNGEL MANUEL. Optimización heurística de forjados de losa postesa. 09/12/15
- TORRES MACHÍ, CRISTINA. Optimización heurística multiobjetivo para la gestión de activos de infraestructuras de transporte terrestre. 30/03/15
- ALCALÁ GONZÁLEZ, JULIÁN. Optimización heurística económica de tableros de puentes losa pretensados. 29/01/10
- CARBONELL LOMBARDERO, ALFONSO. Optimización heurística de bóvedas de paso de hormigón armado. 14/12/09
- CORREA BECERRA, CHRISTIAN LUIS. Desarrollo e implementación de un modelo de gestión de la I+D+I para las empresas constructoras basado en la Norma UNE 166002. 27/03/09

- PAYÁ ZAFORTEZA, IGNACIO JAVIER. Optimización heurística de pórticos de edificación de hormigón armado. 24/09/07
- PEREA DE DIOS, CRISTIAN. Heuristic Optimization of Reinforced Concrete Frame Bridges. 11/06/07

LEADER OF RESEARCH PROJECTS FUNDED BY PUBLIC AGENCIES

Hybrid life cycle optimization of bridges and mixed and modular structures with high social and environmental efficiency under restrictive budgets (HYDELIFE). Financed by the Spanish Ministry of Science and Innovation along with FEDER funding (Project: PID2020-117056RB-I00). January 2021 to December 2023. PI: Víctor Yepes.

Reliability-based robust optimum design and maintenance of high social and environmental efficiency of bridges and highway infrastructures under restrictive budgets (DIMALIFE)**.** Financed by the Spanish Ministry of Economy and Competitiveness along with FEDER funding (DIMALIFE Project: BIA2017-85098-R). January 2018 to December 2020. PI: Víctor Yepes.

Decision-making in the life-cycle management of prestressed bridges in terms of social and environmental efficiency and under restrictive budgets (BRIDLIFE). Financed by the Spanish Ministry of Economy and Competitiveness along with FEDER funding (BRIDLIFE Project: BIA2014-56574-R). January 2015 to December 2017. PI: Víctor Yepes.

Efficient design of non-conventional concrete structures based on multiobjective sustainable criteria using data mining methods. (HORSOST). Financed by the Spanish Ministry of Science and Innovation (Research Project BIA2011-23602). January 2012 to April 2015. PI: Víctor Yepes.

More and detailed information in my personal blog page: http://victoryepes.blogs.upv.es/