

July 12, 2021

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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.**

EXPERIENCE AT THE UNIVERSITAT POLITÈCNICA DE VALÈNCIA

Deputy Director, Department of Construction Engineering, from July 2010 to July 2012, and from July 2014 present

Academic Head, M.Sc. in Concrete Engineering, from June 2008 to February 2017. This M.Sc. degree is applied to the construction-engineering field and it is fully supported by the Department of Construction Engineering. Its purpose is to provide a broad understanding of concrete as a building material, as well as the skills necessary for the analysis and design of concrete structures. <http://victoryepes.blogs.upv.es/2015/08/26/presentacion-del-master-universitario-en-ingenieria-del-hormigon/>

Full Professor, from November 2017 to present, Department of Construction Engineering

Associate Professor, from April 2008 to November 2017, Department of Construction Engineering

Part Time Professor, from October 1994 to April 2008, Department of Construction Engineering

Part Time Professor, from October 1989 to September 1990, Department of Construction Engineering

Research Assistant, from September 1987 to July 1988, Department of Transportation Engineering.

VISITING SCHOLAR

Department of Engineering and Construction Management

Pontificia Universidad Católica de Chile, 2013

<http://www.ing.uc.cl/ingenieria-y-gestion-construccion/nuestro-departamento/profesores-visitantes/>

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-to present).

JOURNAL PUBLICATIONS (SCI)

1. 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
2. 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.
3. 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
4. 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
5. 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
6. TANG, M.; LIAO, H.; YEPES, V.; LAURINAVICIUS, A.; TUPENAITE, L. (2021). [Quantifying 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
7. 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
8. 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.
9. 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
10. 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
11. 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
12. 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
13. PONS, J.J.; VILLALBA-SANCHIS, I.; INSA, 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
14. 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

15. 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
16. 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
17. 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
18. 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
19. 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
20. 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
21. 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
22. 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
23. 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
24. 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
25. 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
26. 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
27. 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.
28. 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
29. 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
30. 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
31. MARTÍNEZ-FERNÁNDEZ, P.; VILLALBA-SANCHÍS, I.; INSA-FRANCO, R.; YEPES, V. (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
32. 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
 33. 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
 34. 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
 35. 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
 36. 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
 37. 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
 38. 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
 39. 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
 40. 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
 41. 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
 42. 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
 43. 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
 44. 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
 45. 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
 46. 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

47. 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
48. 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
49. 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
50. 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
51. 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
52. 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
53. 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
54. 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
55. 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
56. 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
57. 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
58. 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
59. 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
60. GARCÍA-SEGURA, T.; YEPES, V. (2016). **Multiobjective optimization of post-tensioned concrete box-girder road bridges considering cost, CO₂ emissions, and safety.** *Engineering Structures*, 125:325-336. DOI:10.1016/j.engstruct.2016.07.012
61. 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

62. 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
63. 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
64. 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
65. 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
66. 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
67. 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
68. 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
69. 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
70. 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
71. YEPES, V.; MARTÍ, J.V.; GARCÍA-SEGURA, T. (2015). **Cost and CO₂ 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
72. 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
73. 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
74. 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
75. 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
76. 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
77. 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
 78. 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
 79. 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
 80. 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
 81. 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
 82. 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
 83. 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
 84. 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
 85. 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
 86. 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.
 87. 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
 88. 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
 89. YEPES, V.; GONZÁLEZ-VIDOSA, F.; ALCALÁ, J.; VILLALBA, P. (2012). **CO₂-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
 90. 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
 91. 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
92. NARANJO, G.; PELLICER, E.; YEPES, V. (2011). [Marketing in construction industry: state of knowledge and current trends](#). *DYNA*, 78(170):245-253.
 93. 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
 94. 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
 95. 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.
 96. 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.
 97. 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
 98. 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
 99. 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.
 100. PAYÁ-ZAFORTEZA, I.; YEPES, V.; HOSPITALER, A.; GONZÁLEZ-VIDOSA, F. (2009). **CO₂-Optimization of Reinforced Concrete Frames by Simulated Annealing**. *Engineering Structures*, 31(7): 1501-1508. DOI: 10.1016/j.engstruct.2009.02.034
 101. 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
 102. 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
 103. 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
 104. 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)
 105. 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.
 106. 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.
 107. MEDINA, J.R.; YEPES, V. (2003). [Optimization of touristic distribution networks using genetic algorithms](#). *SORT*, 27(1): 95-112.

ACADEMIC BOOKS

- YEPES, V.; MARTÍ, J.V. (2021). [Sustainable Construction II](#). MPDI, 114 pp., Basel, Switzerland. ISBN 978-3-0365-0484-1
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- 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.
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- 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.
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- 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.

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