

19. Baldomir, A., Hernandez, S., Nieto, F., Jurado, J.A. Cable optimization of a long span cable stayed bridge in La Coruña (Spain). *Adv Eng Softw.* 2010. 41(7-8). Pp. 931–938. DOI: 10.2495/OP090101
20. Sung, Y.-C., Chang, D.-W., Teo, E.-H. Optimum post-tensioning cable forces of Mau- Lo Hsi cable-stayed bridge. *Eng Struct.* 2006. 28(10). Pp. 1407–1417. DOI: 10.1016/j.engstruct.2006.01.009
21. Hassan, M.M. Optimization of stay cables in cable-stayed bridges using finite element, genetic algorithm, and B-spline combined technique. *Eng Struct.* 2013. 49. Pp. 643–654. DOI: 10.1016/j.engstruct.2012.11.036
22. Hassan, M.M., Nassef, A.O., El Damatty, A.A. Determination of optimum post-tensioning cable forces of cable-stayed bridges. *Eng Struct.* 2012. 44. Pp. 248–259. DOI: 10.1016/j.engstruct.2012.06.009
23. Martins, A.M.B., Simões, L.M.C., Negrão, J.H.J.O. Optimization of cable forces on concrete cable-stayed bridges including geometrical nonlinearities. *Comput Struct.* 2015. 155. Pp. 18–27. DOI: 10.1016/j.compstruc.2015.02.032.
24. Martins, A.M.B., Simões, L.M.C., Negrão, J.H.J.O. Cable stretching force optimization of concrete cable-stayed bridges including construction stages and time-dependent effects. *Struct Multidiscip Optim.* 2015. 51(3). Pp. 757–772. DOI: 10.1007/s00158-014-1153-4
25. Hassan, M.M., Nassef, A.O., El Damatty, A.A. Optimal design of semi-fan cable-stayed bridges. *Can J Civ Eng.* 2013. 40(3). Pp. 285–97. DOI: 10.1139/cjce-2012-0032

Contacts:

Rajai Al-Rousan, +962799887574; rzalrousan@just.edu.jo

© Al-Rousan, Rajai, 2019