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Abstract

Historic renaissance structures are one of the most architecture forms that represent and demonstrate the architectural and cultural wealth of Egypt. It is works of art designed by famous European architects during 19th and 20th century. By the beginning of 19th century, the state of the city changed, as the aristocracy, rich and the elite deserted it westwards into the new extension to the city. Such demographic modification adversely affected the social structure, as many of the buildings were re-occupied by secondary traders and laborers. Otherwise most buildings were converting into industrial workshops. All that had a reverse effect not only on the historic fabric but also on the structural safety of these buildings. The work that composes the subject focuses on three main issues. The first issue builds on both in-situ survey and on an extensive literature review to study renaissance structures in Cairo. Where, the second issue is to identify and briefly describe the structural and architectural damage caused to historic renaissance buildings due to many cases such as, the misuse, the effect of 2011 revolution, Cairo Metro railway Practices (project 2017: 2020) and change and conversion processes. The last issue is to propose adequate intervention and retrofit procedures to strengthening and repair damaged structures or to upgrade undamaged ones.