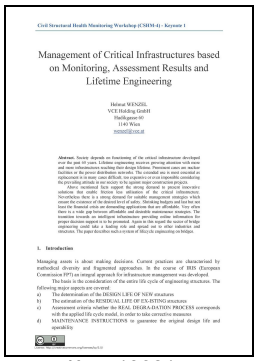

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Management of Critical Infrastructures based on Monitoring, Assessment Results and Lifetime Engineering

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Society depends on functioning of the critical infrastructure developed over the past 60 years. Lifetime engineering receives growing attention with more and more infrastructures reaching their design lifetime. Prominent cases are nuclear facilities or the power distribution networks. The extended use is most essential as replacement is in many cases difficult, too expensive or even impossible considering the prevailing attitude in our society to be against major construction projects.

Above mentioned facts support the strong demand to present innovative solutions that enable friction less utilisation of the critical infrastructure. Nevertheless there is a strong demand for suitable management strategies which ensure the existence of the desired level of safety. Shrinking budgets and last but not least the financial crisis are demanding applications that are affordable. Very often there is a wide gap between affordable and desirable maintenance strategies. The transition towards an intelligent infrastructure providing online information for proper decision support is to be promoted. Again in this regard the sector of bridge engineering could take a leading role and spread out to other industries and structures. The paper describes such a system of lifecycle engineering on bridges.

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Ключевые слова:

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