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Challenges and Strategies in Remote Sensing Implementation for Bridge Monitoring

Издательство DEStech Publications, Lancaster, 2011 год

7 стр; формат: 23,5 x 16 см; библиографический список: 19 единиц
ISBN: 978-1-60595-053-2

Код: 10322

Commercial remote sensing (CRS) technologies are ideal to help states to evaluate conditions of major bridge elements. The technology challenges regarding conventional remote sensors include the lack of high resolution and low cost techniques and the interpretation of damages identified. The educational and administrative challenges include the lack of experience of bridge engineers with remote sensing and geospatial technologies, few vendors that have invested time in "marketing" these technologies to the public sector, and a general lack of using remote data in bridge management software. While challenges are currently restricting the short-term commercialization of CRS for bridge monitoring, it is argued in this paper that the adoption of these technologies will be much fast-paced than other technologies. One recent informal survey taken of the AASHTO Subcommittee on Bridges and Structures members (39 states and the US Corps of Engineers responding) indicates that LiDAR technology is already being implemented and is even being used for bridge inspection. The lessons learned and applied are very important for bridge managers who may be struggling with implementation of CRS and other advanced technologies by the bridge management and preservation functions in the nations DOTs. It is envisioned that the adoption of the technology by DOTs will happen in the very near future.

Ключевые слова:

Содержание.

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