

Geodetic Monitoring of Arch–Span Bridge Construction in Novosibirsk Using Laser Scanning

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Key words: terrestrial laser scanning, geodetic monitoring, 3D measurements, bridge construction, cable-stayed bridge

SUMMARY

The experience of using terrestrial laser scanning technology for the purposes of geodetic monitoring during arch erecting of cable-stayed bridge under construction through the Ob River in Novosibirsk (Russia) is described. The features of terrestrial scanning equipment used for monitoring and the results obtained were analyzed as well as the actuality of laser scanning technologies for bridge construction was revealed and justified. The space-monitoring procedure of span launching and bridge arch trajectory was developed based on lessons learned.