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## Displacement Monitoring in Geotechnical Applications Using Optical Fiber Sensors in Geosynthetics

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This paper reports on a novel approach to displacement detection in geotechnical structures. To provide an accurate monitoring of soil displacement - giving indications for failure mechanisms such as slope breaks, settlements and alike - optical fiber sensors for distributed strain measurement have been integrated into geosynthetic grid structures, resulting in a two-dimensional sensing element with the ability to detect arbitrarily oriented displacement events with a spatial accuracy down to 1 m.

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**Ключевые слова:**

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