

Robust and accurate detection algorithm for multimode polymer optical FBG sensor system - DTU Orbit (09/11/2017)

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We propose a novel dynamic gate algorithm (DGA) for robust and fast peak detection. The algorithm uses a threshold determined detection window and center of gravity algorithm with bias compensation. Our experiment demonstrates that the DGA method is fast and robust with better stability and accuracy than conventional algorithms. This makes it very attractive for future implementation in sensing systems especially based on multimode fiber Bragg gratings.

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