## Using Intelligent Systems and Structural Analysis to Assure Orderly Operations of the Modern Trading and Exchange Platforms

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**Abstract.** Maintaining orderly operations of its markets is the London Stock Exchange Group's (LSEG) utmost priority. As a regulated entity, LSEG has a legal responsibility to ensure correct and stable behavior of its platforms and monitor its markets.

This represents two major dimensions of Exactpro work. Technical stability and search for possible software defects. Fraud detection to prevent market manipulation, money laundering and other illegal activities.

Market fraud detection can be carried out by monitoring and analyzing all market events. Market surveillance systems ensure this monitoring. Defect management is an essential part of improving the technical stability of software by using test tools. Identifying and correcting defects saves software costs. Additionally, the prediction of testing metrics should give project managers a better picture of risks associated with a particular software defect.

We demonstrate how intelligent systems and structural analysis could solve such tasks.

**Keywords:** fraud detection, surveillance systems, technical stability, defect management, intelligent systems, Data Mining