

### **i Title:**

Kaiping Liu, Hee Beng Kuan Tan, Hee Beng Kuan Tan, Has This Bug Been Reported?  
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### **ii Keywords**

**ii1 Vector Space Model (VSM)** is a classic ranking model, in which each term in a document or query set constitutes a dimension of the vector. The relevance between a document and a query can be calculated as the distance between the two vectors.

**ii2 Latent Semantic Indexing (LSI)**, uses singular value decomposition to uncover the latent semantic information among words and documents.

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### **iii Brief Summaries**

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### **iv Scope Of Improvement**

**iv1:** Explore additional features of bug reports to further improve the search quality of bug tracking systems.

**iv2:** Can conduct more experiments on large-scale projects, including industrial applications.

**iv3:** Improve the search quality in bug tracking systems with the aim of ranking the previously reported bugs higher so that duplicate reports can be prevented from submission.