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Khairul Ihsannudin, Arif Nurwidyantoro, M.Cs., Ph.D.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

DAFTAR PUSTAKA

Alaboudi, A. dan LaToza, T. D., 2023, What constitutes debugging? An exploratory study of debugging episodes and activities, *Empirical Software Engineering*, 5, 28, 117.

Alturki, S. dan Almoaiqel, S., 2024, Towards an automated classification phase in the software maintenance process using decision tree, *PeerJ Computer Science*, 10, e2228.

Asad, M., Yasir, R. M., dan Malek, S., *Leveraging Large Language Model for Information Retrieval-based Bug Localization*, 2025, arXiv: 2508.00253 [cs.SE], *https://arxiv.org/abs/2508.00253*.

Cheng, Y. dan Kuang, L., 2022, CSRS: Code Search with Relevance Matching and Semantic Matching, *Proceedings of the 30th International Conference on Program Comprehension (ICPC)*, 280–289.

Christensen, J., Soderland, S., Bansal, G., dan Mausam, June 2014, Hierarchical Summarization: Scaling Up Multi-Document Summarization, *Proceedings of the 52nd Annual Meeting of the Association for Computational Linguistics (Volume 1: Long Papers)*, Baltimore, Maryland, 902–912.

Guo, Z., Xu, X., Chen, X., dan Geng, C., 2025, A File-Statement Approach for Bug Localization: Optimizing IRBL and Combination Strategy, *IEEE Access*, 13, 104159–104172.

Ibrihich, S., Oussous, A., Ibrihich, O., dan Esghir, M., 2022, A Review on recent research in information retrieval, *Procedia Computer Science*, 201, 777–782.

Jia, C., Miao, Y., Li, Y., Zhang, H., Fang, C., Liu, Y., Deng, G., Liu, Y., dan Chen, Z., 2024, Source Code Summarization in the Era of Large Language Models, *Proceedings of the International Conference on Software Engineering (ICSE)*.

Jimenez, C. E., Yang, J., Wettig, A., Yao, S., Pei, K., Press, O., dan Narasimhan, K. R., 2024, SWE-bench: Can Language Models Resolve Real-world Github Issues?, *The Twelfth International Conference on Learning Representations*.

Khatiwada, S., Tushev, M., dan Mahmoud, A., 2018, Just enough semantics: An information theoretic approach for IR-based software bug localization, *Information and Software Technology*, 93, 45–57.

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Li, Z., Jiang, Z., Huang, Q., dan Gu, Q., 2025, LLM-BL: Large Language Models are Zero-Shot Rankers for Bug Localization, *2025 IEEE/ACM 33rd International Conference on Program Comprehension (ICPC)*, 548–559.

Liguori, P., Qin, Q., Li, H., dan Costa, D., 2024, Exploring the Potential of Llama Models in Automated Code Refinement: A Replication Study, *Proceedings of the IEEE International Conference on Software Analysis, Evolution and Reengineering (SANER)*.

Liu, K., Koyuncu, A., Bissyandé, T. F., Kim, D., Klein, J., dan Le Traon, Y., 2019, You Cannot Fix What You Cannot Find! An Investigation of Fault Localization Bias in Benchmarking Automated Program Repair Systems, *2019 12th IEEE Conference on Software Testing, Validation and Verification (ICST)*, 102–113.

Mohsen, A. M., Hassan, H., Moawad, R., dan Makady, S. H., 2022, A Review on Software Bug Localization Techniques using a Motivational Example, *International Journal of Advanced Computer Science and Applications*.

Oskooei, A. R., Yukcu, S., Bozoglan, M. C., dan Aktas, M. S., 2026, Natural Language Summarization Enables Multi-Repository Bug Localization by LLMs in Microservice Architectures.

Oskooei, A. R., Yukcu, S., Bozoglan, M. C., dan Aktas, M. S., 2025, Repository-Level Code Understanding by LLMs via Hierarchical Summarization: Improving Code Search and Bug Localization, *Computational Science and Its Applications – ICCSA 2025 Workshops*, Cham, 88–105.

Ouyang, S., Yu, W., Ma, K., Xiao, Z., Zhang, Z., Jia, M., Han, J., Zhang, H., dan Yu, D., 2025, RepoGraph: Enhancing AI Software Engineering with Repository-level Code Graph, *The Thirteenth International Conference on Learning Representations*.

Rahman, M. M., Roy, C. K., dan Collins, J. A., 2018, Improving IR-Based Bug Localization with Context-Aware Query Reformulation, *Proceedings of the 2018 26th ACM Joint Meeting on European Software Engineering Conference and Symposium on the Foundations of Software Engineering*, 621–632.

Reimers, N. dan Gurevych, I., 2019, Sentence-BERT: Sentence Embeddings using Siamese BERT-Networks, *Proceedings of the 2019 Conference on Empirical Methods in Natural Language Processing and the 9th International Joint Conference on Natural Language Processing (EMNLP-IJCNLP)*, 3982–3992.

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Saha, R. K., Lease, M., Khurshid, S., dan Perry, D. E., 2013, Improving bug localization using structured information retrieval, *2013 28th IEEE/ACM International Conference on Automated Software Engineering (ASE)*, 345–355.

Sun, W., Fang, C., Miao, Y., You, Y., Yuan, M., Chen, Y., Zhang, Q., Guo, A., Chen, X., Liu, Y., dan Chen, Z., *Abstract Syntax Tree for Programming Language Understanding and Representation: How Far Are We?*, 2023, arXiv: 2312.00413 [cs.SE], *https://arxiv.org/abs/2312.00413*.

Tawosi, V., Alamir, S., Liu, X., dan Veloso, M., *Meta-RAG on Large Codebases Using Code Summarization*, 2025, arXiv: 2508.02611 [cs.SE], *https://arxiv.org/abs/2508.02611*.

Xia, C. S., Deng, Y., Dunn, S., dan Zhang, L., June 2025, Demystifying LLM-Based Software Engineering Agents, *Proc. ACM Softw. Eng.* FSE, 2.

Xiao, Y., Keung, J., Bennin, K. E., dan Mi, Q., 2019, Improving bug localization with word embedding and enhanced convolutional neural networks, *Information and Software Technology*, 105, 17–29.

Xu, H., Wang, Z., dan Zou, W., 2025, A more accurate bug localization technique for bugs with multiple buggy code files, *Information and Software Technology*, 181, 107675.

Youm, K. C., Ahn, J., dan Lee, E., 2017, Improved bug localization based on code change histories and bug reports, *Information and Software Technology*, 82, 177–192.

Zhao, W. X., Zhou, K., Li, J., Tang, T., Wang, X., Hou, Y., Min, Y., Zhang, B., Zhang, J., Dong, Z., Du, Y., Yang, C., Chen, Y., Chen, Z., Jiang, J., Ren, R., Li, Y., Tang, X., Liu, Z., Liu, P., Nie, J.-Y., dan Wen, J.-R., *A Survey of Large Language Models*, 2025, arXiv: 2303.18223 [cs.CL], *https://arxiv.org/abs/2303.18223*.

Zou, W., Li, E., dan Fang, C., 2021, Bug Localization Based on Enhanced Semantic Retrieval, *arXiv preprint arXiv:2109.03555*.