

# Title of the Article

Author 1

Institute of Science Tokyo

author1@m.isct.ac.jp

Author 2

Institute of Science Tokyo

author2@m.isct.ac.jp

November 25, 2025

## Abstract

This is the abstract **Keywords:** *keyword1, keyword2*

## 1 Background

The MLIR project [Lat+21] is a novel approach to building reusable and extensible compiler infrastructure. MLIR aims to address software fragmentation, improve compilation for heterogeneous hardware, significantly reduce the cost of building domain specific compilers, and aid in connecting existing compilers together.

## 2 Methodology

## 3 Results

## 4 Conclusion

## 5 Acknowledgment

## References

- [Lat+21] Chris Lattner et al. “MLIR: scaling compiler infrastructure for domain specific computation”. In: *Proceedings of the 2021 IEEE/ACM International Symposium on Code Generation and Optimization*. CGO ’21. Virtual Event, Republic of Korea: IEEE Press, 2021, pp. 2–14. ISBN: 9781728186139. doi: 10.1109/CGO51591.2021.9370308. URL: <https://doi.org/10.1109/CGO51591.2021.9370308>.