



Special Issue on
Programming Languages: Theory and Practice
Call for Papers

"Programming Languages: Theory and Practice" is a field of computer science that explores the design, implementation, analysis, and application of programming languages — the tools through which humans communicate with computers. It combines theoretical aspects, such as syntax, semantics, and type systems, which define how languages are structured and how they function, with practical considerations involved in their use for software development. This area examines how different programming paradigms (e.g., procedural, object-oriented, functional) influence the problem-solving capabilities of programmers and the performance, reliability, and maintainability of software. It also encompasses the study of language translation, compilation, and execution mechanisms, aiming to make programming more efficient and intuitive.

In this special issue, we intend to invite front-line researchers and authors to submit original research and review articles on **Programming Languages: Theory and Practice**. Potential topics include, but are not limited to:

- Syntax and semantics
- Type systems
- Compilers and interpreters
- Programming paradigms
- Static and dynamic analysis
- Formal methods
- Concurrency and parallelism
- Domain-specific languages
- Language design and evolution
- Functional programming
- Object-oriented programming
- Automated program generation and transformation

Authors should read over the journal's [For Authors](#) carefully before submission. Prospective authors should submit an electronic copy of their complete manuscript through the journal's [Paper Submission System](#).



Please kindly notice that the “**Special Issue**” under your manuscript title is supposed to be specified and the research field “**Special Issue – Programming Languages: Theory and Practice**” should be chosen during your submission.

According to the following timetable:

Submission Deadline	September 9th, 2024
Publication Date	November 2024

For publishing inquiries, please feel free to contact the Editorial Assistant at submission.entrance1@scirp.org

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