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Research Topic: Native Hylo–C/C++ interop properties and evaluation criteria

Full search query: I want to find a comprehensive collection and analysis of the desirable properties and evaluation criteria for native interoperability technologies between Hylo (as a prospective C++ successor) and C and C++, with a focus on overcoming the greatest challenges in such interop (e.g., code generation for difficult C constructs, macros, ABI compatibility, generics/templates, exceptions, idiomatic stdlib features, asynchrony, build/tooling ecosystem integration, incremental and unordered adoption). The review must include direct/native interop technologies (including Clang-based and other safety-improving FFI approaches, but not IDL/IPC), with concrete examples and architectural mechanisms that address the outlined challenges, emphasizing how they enable practical, safe, and incremental migration or coexistence between C++ and the new language

Discuss results with an expert

New History

The literature reveals strong conceptual and formal foundations for specifying and reasoning about ABIs and language interoperability (especially via semantic ABIs and formal convertibility/glue models [1 , 2], but offers no comprehensive, tool-driven solution that fully addresses the practical interop needs of a C++-successor with C/C++, particularly for advanced C++ constructs (templates, exceptions, stdlib idioms, coroutine/async support, tooling, and incremental adoption).

You can find the full report and references below, but I can answer your questions about them directly. What do you want to know?

Create a table comparing the top results | Write a short review article | Identify open questions | Describe the timeline of research | Explain key background information

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Summary

The literature reveals strong conceptual and formal foundations for specifying and reasoning about ABIs and language interoperability (especially via semantic ABIs and formal convertibility/glue models [1 , 2], but offers no comprehensive, tool-driven solution that fully addresses the practical interop needs of a C++-successor with C/C++, particularly for advanced C++ constructs (templates, exceptions, stdlib idioms, coroutine/async support, tooling, and incremental adoption).

Key Findings

1. Formal ABI and Interop Semantics

- Semantic ABIs & Realizability Models: [1] proposes a new formal approach to defining ABIs to improve safety and interoperability, using separation logic to reason about resource ownership across language boundaries (demonstrated in a functional-to-C setting).
- Multi-language Interop Soundness: [2] delivers a semantic framework for type-safe interop post-compilation, specifying convertibility relations and glue code between languages; this clarifies when and how interoperability is possible and safe. Both [1] and [2] provide a solid theoretical foundation but stop short of comprehensive, end-to-end mechanisms for C++-specific constructs.

2. Binding Generation, Macros, and Templates

- Customizable FFI Generation: [4] introduces FIG, allowing declarative customization of FFI wrapper/policy generation for C, but offers limited support for C++ specifics such as templates and exceptions.
- Modular FFI Libraries: [5] describes modular FFI design, supporting composability and partial automation, yet details on advanced C++ support are minimal.
- Practical Tooling Gaps: SWIG [7], NativeBoost [8], and Python/Cling integration [6] demonstrate real use but typically handle only basic C++ features (surface-level template and macro support, few details on vtables, exceptions, or ABI safety).

3. Exception Handling, Resource Ownership, and Stdlib Interop

- No resource provides a complete or automated solution for cross-language zero-cost exceptions, allocator alignment, or idiomatic stdlib bridging.
- Some theoretical treatments [1 , 2] cover resource management concepts using logical models, but practical tool implementations are lacking.

4. Asynchrony, Coroutines, and Build/Tooling Ecoystem

- No reference systematically tackles coroutine ABI, promise types, or alignment of concurrency/primitives between C++ and a successor.
- Incremental migration, ABI versioning, and build/tooling integration (IDE, LSP hooks, etc.) are recognized as crucial [10] but not addressed with evaluated solutions in the reviewed literature.

5. Real-world Integration and Coexistence Patterns

- [6] shows practical experience with dynamic, interactive C++ embedding in scripting but relies on manual instantiation and wrappers, not full automation or safety checks.
- Broader surveys [10] classify interop models by cost and abstraction but focus on high-level comparisons, not detailed direct/native C++ FFI challenges.

In Summary

- Theoretical Basis: There is strong evidence supporting the need for and benefit of rigorous, formal (semantic) ABIs and modular, policy-driven FFI approaches for safe interop [1 , 2 , 4 , 5].
- Tool/Mechanism Gaps: No existing published solution effectively automates or comprehensively supports native interop with C++ in all the required dimensions (advanced templates, exceptions, stdlib idioms, coroutines, macros, and incremental build/tooling integration).
- Practical Progress: Current tools work for "C-like" interop or limited C++ subsets, but handling of C++'s complex features and enabling safe, maintainable, and incremental migration remains an open challenge ripe for new research and tool development.

Relevant references: [1 , 2] (formal models); [4 , 5] (customizable FFI); [6 , 7 , 8] (practical tools, with significant limitations); [10] (survey on interop models).

Categories

1. Formal and Semantic ABI Specification and Sound Interoperability

- Covers formal, semantic definitions of ABIs, type-soundness, and semantic models for interop guarantees.
- References: [1 , 2]
- Details: [1]: Proposes rich, semantic, formally-specified ABIs using a realizability model (graph-based separation logic), includes a case study mapping a high-level functional language to a C-like target and discusses ownership/resource modeling. [2]: Presents a semantic framework for sound language interoperability after compilation, defines convertibility relations and target-level glue for safely converting between language types, extends source-level boundaries to low-level safety and compositional guarantees.

2. Tool-Based, Configurable, and Modular FFI Generation

- Describes practical mechanisms for user-driven, modular, or application-specific FFI/binding generation.
- References: [4 , 5 , 7 , 8]

1977 1981 1985 1989 1993 1997 2001 2005 2009 2013 2017 2021

- Details: [4]: Describes FIG, a scriptable tool for generating FFIs from C headers driven by declarative application-specific policies (rewriting strategies), enabling tailored marshaling/wrapping. [5]: Proposes a modular FFI library (OCaml context); stresses composable, reusable binding components, supporting robust implementation of FFIs. [7]: SWIG—a general-purpose tool parsing C/C++ headers to auto-generate stubs/bindings, supports multiple scripting languages, focuses mainly on C, covers simple C++ patterns. [8]: Describes NativeBoost for building "language-side" FFI in Smalltalk, auto-generating bindings; practical approach, though less focused on C++ inheritance/templates.

3. Real-World Case Studies and Direct C++ Interop Integration Examples

- Demonstrates pragmatic, experimentally-validated approaches for direct, mostly automatic interop between C++ and another language, especially covering templates, inline functions, and toolchain integration.
- References: [6]
- Details: [6]: PyROOT/cppyy + Cling integration for interactive/interpreted C++ and Python; covers auto template instantiation, inline function handling, cross-language callbacks, mixes runtime and compile-time features.

4. General Surveys and High-Level Interop Analysis

- Broadly surveys cross-language interop challenges, models, and approaches—including managed/intermediate languages and zero-cost vs marshaling boundaries.
- References: [10 , 9]
- Details: [10]: Surveys language interoperability from zero-cost (native ABI) to VM/object-model (COM, CORBA, JVM) strategies. Emphasizes need for new models as compiler modularity increases. [9]: The classic Java JNI programming guide—detailed but Java- and VM-focused, not directly about native ABI or C++ constructs, but foundational in general FFI knowledge.

5. Formal, Principled, or Verified FFI Approaches (with Resource Models)

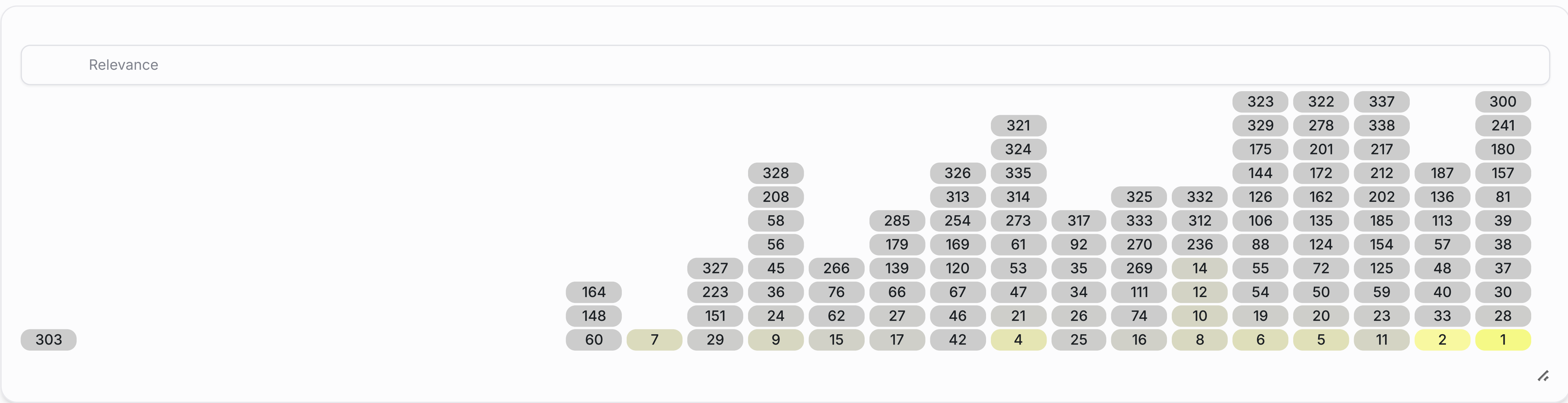
- Principled or modular FFI frameworks, including safety/resource reasoning (may overlap with above when formalized but not explicitly semantic ABIs).
- References: [3]
- Details: [3]: Discusses Cogent's modular FFI with a focus on principled refinement (presumably verified safety and memory correctness); abstract not detailed, but likely formal, safety-driven.

Note:

- No surveyed reference provides a single, comprehensive, end-to-end solution for all C++-specific interop aspects (macros, templates, exceptions, stdlib, asynchrony, build tooling, and incremental migration) as required for a C++-successor like Hylo.
- [4 , 5 , 7 , 6] collectively address practical binding/toolchain aspects, but with varying levels of C++-specific support and configurability.
- [1 , 2 , 3] represent the strongest formal foundations for eventual safety and correctness of native interop, but need more coverage of practical C++-successor migration mechanics.

Timeline

Top References Over Time



Historical Development of Ideas

1990s: Foundational FFI Tooling and Practice

- [7] SWIG (1996, D. Beazley) Introduced practical, automated code-generation for integrating C/C++ with scripting languages. Focused primarily on straightforward function- and type-level interop, paving the way for bindgen tools. Set the stage for a generation of "mechanism-before-policy" approaches—users adapted their code to the tool, not vice versa.
- [9] Java Native Interface (JNI) (1999) Established direct, low-level FFI between Java and native code (C/C++), modeling a standard for calling and marshaling across managed/unmanaged boundaries.

2000s: Scriptable and Application-Specific Extension

- [4] FIG (2006, Reppy & Song) Proposed application-specific FFI generation: separates policy (declarative rewrite scripts) from mechanism (header parsing). Allowed tailoring of FFI to the demands of specific applications, a precursor to modern customizable bindgen frameworks.

2010s: Modular, Composable, and More Formal Approaches

- [5] Modular FFI (2017, Yallop et al.) Developed the concept of composable FFI modules, facilitating more reusable and reliable FFI code, especially in OCaml. Emphasized modularity and reusability, contributing to a "policy as first-class" mindset.
- [8] NativeBoost (2013) Advanced the notion of language-side FFI, integrating more deeply with host-language capabilities.
- [6] Cling/PyROOT/Clang AST approaches (2015, Lavrijsen) Modern toolchains (Clang AST/LLVM-based; see Cling) allow for interactive, template-aware integration. Case studies highlight practical template instantiation and macro handling, important for working with "real" C++.
- [10] Chisnall (2013) Surveyed object model and VM-based approaches (COM, CORBA, JVM), confirming the boundaries between marshaled and "zero-cost" native interop.

2020s: Formal Verification, Semantic ABIs, and Soundness

- [2] Semantic Soundness for Language Interop (2022, Patterson & Ahmed, Northeastern/MIT) Shifted focus to post-compilation soundness—develops theoretical frameworks for ensuring type-safe ABI boundaries, with convertibility relations and target-level glue code. Builds on Matthews & Findler (2007) multi-language boundaries, moving from purely syntactic boundaries to semantically checked, target-level soundness.
- [1] Realistic Realizability: Specifying ABIs (2024, Wagner & Ahmed) Pioneers the idea of semantic, formalized ABIs via realizability models (separation logic, hybrid logic). Promises stronger guarantees for migration and resource ownership, reaching towards machine-checkable, safe ABI specifications.
- [3] Cogent's Principled FFI (2021) Focuses on principled, modular FFI for functional systems (proof-carrying code, verified codebases).

Research Groups and Key Individuals

- Amal Ahmed & Group (Northeastern/MIT): [1 , 2] Consistent leadership in formally verified interop, type-soundness, and semantic ABI research. Major contributions: shift to semantic, post-compilation views of interop; formal specification of safe cross-language boundaries.
- D. Beazley: [7] Foundational work on SWIG, greatly influencing the practical FFI ecosystem for decades.
- John H. Reppy (Chicago) & Chunyan Song: [4] Early advocates for customizable, user-driven FFI generation—key for scripting and high-level languages.
- J. Yallop & Anil Madhavapeddy (Cambridge): [5] Champions of modular, composable FFI for ML-family languages, with lasting influence in modular tool/library design.
- Wim Lavrijsen & PyROOT/Cling team (CERN, [6]: Advanced the automation and flexibility of C++/Python interop, directly harnessing Clang/LLVM for practical binding tools.

Summary Table

Era	Key Concepts/Innovations	Key Contributors (Refs)
1990s	Practical, automated FFI for C/C++ (SWIG, JNI)	Beazley [7], Liang [9]
2000s	Application-specific, scriptable FFI generation	Reppy & Song [4]
2010s	Modular/composable FFI, AST-driven tools, deeper surveys	Yallop, Madhavapeddy [5], Lavrijsen [6], Bruni [8], Chisnall [10]
2020s	Formal verification, semantic/sound ABI specification	Ahmed & Patterson [1 , 2], Cheung [3]

Key Trends

- Gradual movement from mechanistic, header-driven code generation → policy-driven, modular, and customizable FFI frameworks → semantically verified, machine-checked ABIs and interoperability guarantees.
- Increasing formalism in safety and correctness, with Ahmed's group leading the charge towards semantically meaningful ABI specs.
- Recognition that C++'s complexity (templates, macros, exceptions, stdlib idioms) remains an unsolved challenge for fully automated, incremental interop; practical advances still lag behind theory.

Bottom Line:

- The field has evolved from practical tool-building (SWIG, JNI) to modularity/composability (Yallop, Reppy), and now toward formally specified semantic ABIs (Ahmed group).
- The Ahmed group (Northeastern/MIT) is the current intellectual leader in verified, semantically sound interoperability—relevant for safe, incremental rewriting and adoption for a C++ successor like Hylo.
- However, no single group or work yet fully addresses the full spectrum of C++'s interop challenges in an industrial-practical and fully-automated way.

Foundational work

Which papers form the foundational references on this topic?

The below table shows the resources that are most often cited by the relevant papers on this topic. This is measured by the reference rate, which is the fraction of relevant papers that cite a resource. Use this table to determine the most important core papers to be familiar with if you want to deeply understand this topic. Some of these core papers may not be directly relevant to the topic, but provide important context.

Ref.	Reference Rate	Topic Match	Title	Authors	Journal	Year	Total Citations	Cited By These Relevant Papers
[2]	1.00	38%	Semantic soundness for language interoperability	Daniel Patterson, ..., and Amal Ahmed	Proceedings of the 43rd ACM SIGPLAN International Conference on Programming Language Design and Implementation	2022	12	[1]
[30]	1.00	0%	Semantic Encapsulation using Linking Types	Daniel Patterson, ..., and Amal J. Ahmed	Proceedings of the 8th ACM SIGPLAN International Workshop on Type-Driven Development	2023	3	[1]
[202]	1.00	0%	Under Control: Compositionally Correct Closure Conversion with Mutable State	P. Mates, ..., and Amal J. Ahmed	Proceedings of the 21st International Symposium on Principles and Practice of Declarative Programming	2019	11	[1 , 2]
[266]	0.77	0%	An indexed model of recursive types for foundational proof-carrying code	A. Appel and David A. McAllester	ACM Trans. Program. Lang. Syst.	2001	380	[1 , 2 , 14]
[321]	0.57	Not measured	A very modal model of a modern, major, general type system	A. Appel, ..., and Jérôme Vouillon	N/A	2007	169	[1]
[7]	0.42	13%	SWIG: An Easy to Use Tool for Integrating Scripting Languages with C and C++	D. Beazley	N/A	1996	426	[2 , 4 , 5]
[46]	0.42	0%	Checking type safety of foreign function calls	Michael Furr and J. Foster	N/A	2005	109	[2 , 4 , 5]
[76]	0.42	0%	No-Longer-Foreign: Teaching an ML compiler to speak C "natively"	Matthias Blume	N/A	2001	74	[2 , 4 , 5 , 15]
[25]	0.36	1%	Jinn: synthesizing dynamic bug detectors for foreign language interfaces	Byeongcheol Lee, ..., and K. McKinley	N/A	2010	52	[2 , 5]
[56]	0.35	0%	H/Direct: a binary foreign language interface for Haskell	Sigbjørn Finne, ..., and S. Jones	N/A	1998	63	[2 , 4]
[58]	0.35	0%	C → HASKELL, or Yet Another Interfacing Tool	M. Chakravarty	N/A	1999	19	[2 , 4 , 15]
[5]	0.33	17%	A modular foreign function interface	J. Yallop, ..., and Anil Madhavapeddy	Sci. Comput. Program.	2017	12	[2]
[125]	0.33	0%	On the Multi-Language Construction	Samuele Buro and Isabella Mastroeni	N/A	2019	8	[2]

Ref.	Reference Rate	Topic Match	Title	Authors	Journal	Year	Total Citations	Cited By These Relevant Papers
[154]	0.33	0%	A history of Clojure	R. Hickey	Proceedings of the ACM on Programming Languages	2020	22	[2]
[162]	0.33	0%	FunTAL: reasonably mixing a functional language with assembly	Daniel Patterson, ..., and Amal J. Ahmed	Proceedings of the 38th ACM SIGPLAN Conference on Programming Language Design and Implementation	2017	36	[2]
[185]	0.33	0%	A verified, efficient embedding of a verifiable assembly language	Aymeric Fromherz, ..., and Nikhil Swamy	Proceedings of the ACM on Programming Languages	2019	40	[2]
[201]	0.33	0%	Everest: Towards a Verified, Drop-in Replacement of HTTPS	K. Bhargavan, ..., and J. Zinzindohoué	N/A	2017	74	[2]
[212]	0.33	0%	Gradual type theory	Max S. New, ..., and Amal J. Ahmed	Proceedings of the ACM on Programming Languages	2019	23	[2]
[322]	0.33	Not measured	Reasoning About Foreign Function Interfaces Without Modelling the Foreign Language	Alexi Turcotte, ..., and G. Richards	N/A	2018	7	[2]
[20]	0.31	2%	Verified low-level programming embedded in F∗	Jonathan Protzenko, ..., and Nikhil Swamy	Proceedings of the ACM on Programming Languages	2017	151	[2]

Adjacent work

These papers cite the same foundational papers as relevant papers.

Use this table to discover related papers on adjacent topics, to gain a broader understanding of the field and help generate ideas for useful new research directions.

Ref.	Adjacency score	Topic Match	Title	Authors	Journal	Year	Total Citations	References These Foundational Papers
[2]	0.02	38%	Semantic soundness for language interoperability	Daniel Patterson, ..., and Amal Ahmed	Proceedings of the 43rd ACM SIGPLAN International Conference on Programming Language Design and Implementation	2022	12	[5 , 58 , 76 , 92 , 139
[313]	0.01	0%	Polymorphic Type Inference for the JNI	Michael Furr and J. Foster	N/A	2006	50	[7 , 15 , 46 , 76 , 208
[43]	0.01	0%	JNI Light: An Operational Model for the Core JNI (Technical Report)	Gang Tan	N/A	2010	8	[15 , 21 , 46 , 61 , 76 ,
[123]	0.01	0%	Redesigning FFI calls in Pharo: exploiting the baseline JIT for more performance and low maintenance	Juan Ignacio Bianchi and Guillermo Polito	International Workshop on Smalltalk Technologies	2024	0	[5 , 15 , 76 , 106]
[4]	0.01	22%	Application-specific foreign-interface generation	John H. Reppy and Chunyan Song	N/A	2006	16	[7 , 15 , 46 , 58 , 76]
[5]	0.01	17%	A modular foreign function interface	J. Yallop, ..., and Anil Madhavapeddy	Sci. Comput. Program.	2017	12	[7 , 46 , 76 , 106]
[30]	0.00	0%	Semantic Encapsulation using Linking Types	Daniel Patterson, ..., and Amal J. Ahmed	Proceedings of the 8th ACM SIGPLAN International Workshop on Type-Driven Development	2023	3	[58 , 76]
[329]	0.00	Not measured	Generating safe boundary APIs between typed EDSLs and their environments	Bob Reynders, ..., and Frank Piessens	Proceedings of the 2015 ACM SIGPLAN International Conference on Generative Programming: Concepts and Experiences	2015	0	[58 , 76]
[330]	0.00	Not measured	1-1-2012 Dependent Interoperability	Peter-Michael Osera	Journal Not Provided	2014	0	[58 , 76]
[331]	0.00	Not measured	Recuperación de empresas por sus trabajadores y autogestión obrera: un estudio de caso de una empresa en Argentina	L. M. Deledicque, ..., and J. Moser	N/A	2005	15	[58 , 76]

Ref.	Adjacency score	Topic Match	Title	Authors	Journal	Year	Total Citations	References These Foundational Papers
[111]	0.00	0%	Dependent interoperability	Peter-Michael Osera, ..., and Steve Zdancewic	N/A	2012	27	[58 , 76]
[21]	0.00	2%	Operational semantics for multi-language programs	Jacob Matthews and R. Findler	ACM Trans. Program. Lang. Syst.	2007	214	[58 , 76]
[180]	0.00	0%	A Verified Foreign Function Interface between Coq and C	Joomy Korkut, ..., and Andrew W. Appel	Proc. ACM Program. Lang.	2025	2	[5 , 76]
[33]	0.00	0%	A Foreign Function Interface for Pallene	Gabriel Coutinho De Paula and Roberto Ierusalimschy	Proceedings of the XXVI Brazilian Symposium on Programming Languages	2022	1	[5 , 76]
[15]	0.00	4%	A framework for interoperability	Kathleen Fisher, ..., and John H. Reppy	N/A	2001	29	[58 , 76]
[278]	0.00	0%	Cross-Language Interoperability in a Multi-Language Runtime	Matthias Grimmer, ..., and M. Luján	ACM Transactions on Programming Languages and Systems (TOPLAS)	2018	37	[7 , 76]
[25]	0.00	1%	Jinn: synthesizing dynamic bug detectors for foreign language interfaces	Byeongcheol Lee, ..., and K. McKinley	N/A	2010	52	[7 , 46 , 61]
[332]	0.00	Not measured	Exception analysis in the Java Native Interface	Siliang Li and Gang Tan	Sci. Comput. Program.	2014	11	[76]
[270]	0.00	0%	JET: exception checking in the Java native interface	Siliang Li and Gang Tan	N/A	2011	26	[76]
[284]	0.00	0%	Improving Quality of Soft ware with Foreign Function Interfaces using Static Analysis	Lehigh Preserve and Siliang Li	N/A	2014	1	[76]

References

MATCH	CIT./YEAR	DATE	REFERENCE	RELEVANCE
47%	0.0	2024	[1] Realistic Realizability: Specifying ABIs You Can Count On (HTML) Andrew Wagner, ..., and Amal Ahmed Proc. ACM Program. Lang. · Oct 8, 2024 · 0 Citations · Cite	**Proposes a semantic, formally specified ABI methodology for safer interop.** Introduces realizability models and separation logic to rigorously define ownership, layout, and resource guarantees in ABIs. Addresses ABI expressivity and verification, but does not specifically target C++ constructs (templates, macros, exceptions) or direct Hylo/C++ incremental migration mechanisms; focus is on conceptual ABI specification. Show Abstract
38%	3.8	2022	[2] Semantic soundness for language interoperability (PDF) Daniel Patterson, ..., and Amal Ahmed Proceedings of the 43rd ACM SIGPLAN International Conference on Programming Language Design and Implementation · Feb 26, 2022 · 12 Citations · Cite	**Proposes a framework for semantic soundness in language interoperability.** Introduces a post-compilation, conversion-based model with explicit type convertibility and target-level glue code. Focuses on general type safety for mixed-language programs, not specifically C++ ABI, macros, templates, exceptions, or incremental migration, thus offering a foundational but not comprehensive/practical C++ interop solution. Show Abstract
35%	0.2	2021	[3] Overcoming Restraint: Modular Refinement using Cogent's Principled Foreign Function Interface (HTML) L. Cheung, ..., and C. Rizkallah ArXiv · Date Not Available · 1 Citations · Cite	No abstract or full text available.
22%	0.9	2006	[4] Application-specific foreign-interface generation (HTML) John H. Reppy and Chunyan Song Oct 22, 2006 · 16 Citations · Cite	**Proposes a customizable tool for generating foreign interfaces to C libraries.** Achieves this by combining raw C header parsing with user-defined declarative scripting for mapping policies using rewriting strategies. Focuses on automation and flexibility for C FFI, but does not address C++-specific challenges (templates, name mangling, exceptions, vtables, ABI checks, asynchrony, or incremental migration), thus is only distantly or partially relevant to comprehensive C++-successor interop. Show Abstract
17%	1.5	2017	[5] A modular foreign function interface (PDF) J. Yallop, ..., and Anil Madhavapeddy Sci. Comput. Program. · Apr 7, 2017 · 12 Citations · Cite	No abstract or full text available.
16%	0.4	2015	[6] Python in the Cling World (PDF) W. Lavrijsen Journal of Physics: Conference Series · Dec 23, 2015 · 4 Citations · Cite	**Describes integrating Python with C++ via Cling and PyROOT/cppyy.** Details cross-language callbacks, automatic template instantiations, and interactive Python usage from C++ interpreter. Focuses on high-level, dynamic interop; does not address native ABI, exception compatibility, macro expansion, or C++ successor migration strategies. Show Abstract
13%	14.8	1996	[7] SWIG: An Easy to Use Tool for Integrating Scripting Languages with C and C++ (HTML) D. Beazley Jul 10, 1996 · 426 Citations · Cite	No abstract or full text available.

MATCH	CIT./YEAR	DATE	REFERENCE		RELEVANCE
10%	0.8	2013	**[8] Language-side Foreign Function Interfaces with NativeBoost** Camillo Bruni, ..., and L. Fabresse Sep 10, 2013 · 9 Citations · Cite	HTML	No abstract or full text available.
9%	9	1999	**[9] Java Native Interface: Programmer's Guide and Reference** Sheng Liang Jun 1, 1999 · 234 Citations · Cite	HTML	No abstract or full text available.
8%	2.1	2013	**[10] The Challenge of Cross-language Interoperability** D. Chisnall Queue · Oct 8, 2013 · 24 Citations · Cite	PDF	**Analyzes high-level strategies and challenges in cross-language interoperability.** Discusses historical solutions (COM, CORBA, VMs) and speculates on modular compiler-driven approaches. Does not address C++-specific interop details (ABI, templates, exceptions, macros, tooling) or concrete native binding mechanisms—only broadly relevant context. Show Abstract
7%	3.3	2020	**[11] From folklore to fact: comparing implementations of stacks and continuations** Kavon Farvardin and John H. Reppy Proceedings of the 41st ACM SIGPLAN Conference on Programming Language Design and Implementation · Jun 6, 2020 · 16 Citations · Cite	PDF	Show Abstract
6%	0.7	2013	**[12] Analyzing memory ownership patterns in C libraries** Tristan Ravitch and B. Liblit Jun 20, 2013 · 8 Citations · Cite	PDF	**Proposes analyses for inferring C library memory ownership semantics.** Uses static analysis to automate ownership detection, aiding FFI binding generation and interface documentation for polyglot scenarios. Focuses on memory/resource management across language boundaries; does not address ABI, templates, macros, exceptions, or C++-specific interop—thus, only tangentially related to C++-successor direct/native interop. Show Abstract
6%	0.2	2011	**[13] The design & implementation of an abstract semantic graph for statement-level dynamic analysis of c++ applications** B. Malloy and Edward B. Duffy Date Not Available · 3 Citations · Cite	HTML	No abstract or full text available.
5%	3.2	2014	**[14] Compiler verification meets cross-language linking via data abstraction** Peng Wang, ..., and A. Chlipala ACM SIGPLAN Notices · Oct 15, 2014 · 34 Citations · Cite	PDF	**Describes a verified compiler supporting cross-language linking via data abstraction.** Achieves this by defining a semantics that allows linking compiled code with foreign assembly through abstract data types and axiomatic method interfaces. Focus is on formal correctness, function pointers, and data encapsulation—not on C++-specific interop challenges like ABI, templates, macros, or incremental migration; relevance is mainly theoretical framework, not practical mechanism for C++-successor interop. Show Abstract
4%	1.2	2001	**[15] A framework for interoperability** Kathleen Fisher, ..., and John H. Reppy Nov 1, 2001 · 29 Citations · Cite	PDF	No abstract or full text available.
4%	0.2	2012	**[16] Design and implementation of a language-complete C++ semantic graph** Edward B. Duffy and B. Malloy Mar 29, 2012 · 2 Citations · Cite	HTML	**Describes construction of a complete C++ semantic analysis graph.** Extends gcc parser to output XML parse trees, builds a unified semantic graph. Enables deep static and dynamic C++ code analysis but does not address native interop, ABI, or language migration for C++-successors; may be useful for code-generation or binding tools as a foundation. Show Abstract
3%	0.7	2003	**[17] gccXfront: exploiting gcc as a front end for program comprehension tools via XML/XSLT** M. Hennessy, ..., and James F. Power 11th IEEE International Workshop on Program Comprehension, 2003. · May 10, 2003 · 15 Citations · Cite	PDF	Show Abstract
2%	0.0	Unknown	**[18] Compiler Verification Meets Cross-Language Linking via Data Abstraction** Peng Wang, ..., and A. Chlipala Journal Not Provided · Date Not Available · 2 Citations · Cite	HTML	No abstract or full text available.
2%	1.6	2015	**[19] Formalizing a Secure Foreign Function Interface** Adriaan Larmuseau and D. Clarke Sep 7, 2015 · 15 Citations · Cite	PDF	No abstract or full text available.
2%	18.5	2017	**[20] Verified low-level programming embedded in F*** Jonathan Protzenko, ..., and Nikhil Swamy Proceedings of the ACM on Programming Languages · Feb 28, 2017 · 151 Citations · Cite	PDF	Show Abstract
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