



CALL FOR PAPERS

ICCGC 2021
Oct 28-29, 2021
Lisbon, Portugal

The International Research Conference is a federated organization dedicated to bringing together a significant number of diverse scholarly events for presentation within the conference program. Events will run over a span of time during the conference depending on the number and length of the presentations.

ICCGC 2021 : International Conference on Code Generation and Connectivity is the premier interdisciplinary forum for the presentation of new advances and research results in the fields of Code Generation and Connectivity. The conference will bring together leading academic scientists, researchers and scholars in the domain of interest from around the world. Topics of interest for submission include, but are not limited to:

Code generation, translation, transformation, and optimization
For performance, energy, virtualization, portability, security, or reliability concerns, and architectural support
Efficient execution of dynamically typed and higher-level languages
Optimization and code generation for emerging programming models, platforms, domain-specific languages
Dynamic/static, profile-guided, feedback-directed, and machine learning based optimization
Static, dynamic, and hybrid analysis
For performance, energy, memory locality, throughput or latency, security, reliability, or functional debugging.
Program characterization methods.
Efficient profiling and instrumentation techniques;
architectural support.

Novel and efficient tools.
Compiler design, practice and experience
Compiler abstraction and intermediate representations
Vertical integration of language features, representations, optimizations, and runtime support for parallelism
Solutions that involve cross-layer (HW/OS/VM/SW) design and integration
Deployed dynamic/static compiler and runtime systems for general purpose, embedded system and Cloud/HPC platforms
Parallelism, heterogeneity, and reconfigurable architectures
Optimizations for heterogeneous or specialized targets, GPUs, SoCs, CGRA
Compiler-support for vectorization, thread extraction, task scheduling, speculation, transaction, memory management, data distribution and synchronization