



# CALL FOR PAPERS

**ICCGC 2022**  
**Oct 28-29, 2022**  
**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 2022 : 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