Managed Languages & Runtimes Week ‘16 is a premier forum for presenting and discussing innovations and breakthroughs in the area of programming languages and runtime systems, which form the basis of many modern computing systems, from small scale (embedded and real-time systems) to large-scale (cloud-computing and big-data platforms).

Managed Languages & Runtimes Week ‘16 features three international academic and industry venues for the first time:

- **PPPJ ‘16** - 13th International Conference on Principles and Practices of Programming on the Java Platform: Virtual Machines, Languages, and Tools - A forum for researchers, practitioners, and educators to present and discuss novel results on all aspects of managed languages and their runtime systems, including virtual machines, tools, methods, frameworks, libraries, case studies, and experience reports. Managed languages and runtime systems of interest include, but are not limited to, Java, Scala, JavaScript, Python, Ruby, C#, F#, Clojure, Groovy, Kotlin, R, Java VM, Dalvik VM and Android Runtime (ART), LLVM, .NET CLR, RPython. PPPJ’16 is in-cooperation with ACM SIGPLAN, SIGSOFT, SIGAPP and SPEC RG.

- **JTRES ‘16** - 14th International Workshop on Java Technologies for Real-time and Embedded Systems - A workshop for researchers working on real-time and embedded Java with the goal of identifying the challenging problems that still need to be solved in order to assure the success of real-time Java as a technology and reporting results and experience.

- **VMM ‘16** - 3rd Virtual Machine Meetup - A venue for discussing the latest research and developments in the area of managed language execution.

Managed Languages & Runtimes Week ‘16 will take place in Lugano, Switzerland. Do not hesitate to contact the organizers <manlang16@usi.ch> for more information about the event and the co-located venues.

**SUBMISSION INFORMATION**

PPPJ ‘16, JTRES ‘16, and VMM ‘16 welcome submissions of high quality research, industry, and tool papers, as well as industrial experience and practitioner reports. For more information, visit the related Call for Papers at the following websites:

- **PPPJ ‘16**: http://pppj16.inf.usi.ch/
- **JTRES ‘16**: http://jtres2016.compute.dtu.dk/
- **VMM ‘16**: http://vmm16.inf.usi.ch/

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JTRES '16 – the 13th conference in the PPPJ series – provides a forum for researchers, practitioners, and educators to present and discuss novel results on all aspects of managed languages and their runtime systems. PPPJ'16 is in-cooperation with ACM SIGPLAN, SIGSOFT, SIGAPP and SPEC RG.

**TOPICS**
- Virtual machines
  - Runtime systems (JVM, Dalvik VM and Android Runtime (ART), LLVM, NET CLR, RPython, etc.)
  - VM design and optimization
  - VMs for mobile and embedded devices
  - Real-time VMs
  - Isolation and resource control

- Languages
  - Managed languages (Java, Scala, JavaScript, Python, Ruby, C#, F#, Clojure, Groovy, Kotlin, R, etc.)
  - Domain-specific languages
  - Language design and calculi
  - Compilers
  - Language interoperability
  - Parallelism and concurrency
  - Modular and aspect-oriented programming
  - Model-driven development
  - Frameworks and applications
  - Teaching

- Techniques and tools
  - Static and dynamic program analysis
  - Testing
  - Verification
  - Monitoring and debugging
  - Security and information flow
  - Workload characterization and performance evaluation

Do not hesitate to contact the PC Chair <petr.tuma@d3s.mff.cuni.cz> to clarify if a particular topic falls within the scope of PPPJ '16.

**JTRES 2016**
14th International Workshop on Java Technologies for Real-time and Embedded Systems


JTRES '16 is a workshop for researchers working on real-time and embedded Java with the goal of identifying the challenging problems that still need to be solved in order to assure the success of real-time Java as a technology and reporting results and experience.

**TOPICS**
- Topics of interest to JTRES '16 include, but are not limited to:
  - New real-time programming paradigms and language features
  - Industrial experience and practitioner reports
  - Open source solutions for real-time Java
  - Real-time design patterns and programming idioms
  - High-integrity and safety critical system support
  - Java-based real-time operating systems and processors
  - Extensions to the RTSJ and SCJ
  - Real-time and embedded virtual machines and execution environments
  - Memory management and real-time garbage collection
  - Multiprocessor and distributed real-time Java
  - Real-time solutions for Android
  - Languages other than Java on real-time or embedded JVMs
  - Benchmarks and Open Source applications using real-time Java

Do not hesitate to contact the PC Chair <masca@dtu.dk> to clarify if a particular topic falls within the scope of JTRES '16.

**SUBMISSION GUIDELINES**
- PPPJ '16 accepts three types of paper submissions:
  - Regular research paper: up to 12 pages
  - Work-in-progress paper: up to 6 pages
  - Industry and tool paper: up to 6 pages

The conference proceedings will be published as part of the ACM International Conference Proceedings Series and will be disseminated through the ACM Digital Library.