Java Generics are Turing Complete

Radu Grigore
University of Kent

Host: Tom Henzinger

Although not the most popular feature of Java's generics,
bounded wildcards have their uses.
On the negative side, bounded wildcards render type checking undecidable.
On the positive side, bounded wildcards let us encode any computation at compile time;
so, Java's type checker can recognize any recursive language.

The first part of the talk will review how bounded wildcards
are used in the implementation of Java's standard library.
The second part of the talk will review the proof that bounded wildcards
render subtype checking undecidable.

Bio:
Radu Grigore is
a lecturer at University of Kent
and an anagram of Argued Rigor.

Wednesday, April 12, 2017 05:00pm - 06:00pm
Mondi Seminar Room 2, Central Building

This invitation is valid as a ticket for the ISTA Shuttle from and to Heiligenstadt Station.
Please find a schedule of the ISTA Shuttle on our webpage:
https://ista.ac.at/en/campus/how-to-get-here/ The ISTA Shuttle bus is marked ISTA Shuttle
(#142) and has the Institute Logo printed on the side.