

## Personal

Birth June 17, 1976, in Zurich  
Citizenship Swiss  
Languages German, English, French,  
Japanese, Italian, Spanish

## Contact

Cyrille Artho  
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## Background

**Software verification:** Model checking, concurrency analysis, run-time verification, testing.

## Education

**05/2005** Ph.D. in Computer Science, ETH Zürich, Switzerland  
Advisors: A. Biere (ETH Zürich), D. Peled (Univ. of Warwick), K. Havelund (NASA Ames), T. Gross (ETH Zürich).  
**2002 and 2003** Research collaboration at NASA Ames with Klaus Havelund and the ASE group.  
**03/2001** Diploma MSc. in Computer Science: ETH Zürich, Switzerland.

## Research

- C. Artho, W. Leungwattanakit, M. Hagiya, Y. Tanabe, M. Yamamoto. Cache-based Model Checking of Networked Applications: From Linear to Branching Time. ASE 2009, November 2009, Auckland, New Zealand.  
A caching system capable of backtracking I/O operations increases performance enormously.
- C. Artho, P. Garoche, S. Honiden: Accurate Centralization for Applying Model Checking on Networked Applications. 21st Int'l. Conf. on Automated Software Engineering, September 2006, Japan.  
The application of model checking to distributed systems is a major milestone in this area.
- C. Artho, A. Biere, S. Honiden: Enforcer – Efficient Failure Injection. 14th Int'l. Conf. on Formal Methods (FM 2006), August 2006, Canada.  
The selective usage of unit tests makes fault injection orders of magnitudes faster.
- 30+ other publications omitted for brevity. Also reviewed papers for 15+ different intl. conferences.

## Recent Professional Experience

<b>04/2007 – today</b> AIST/RCIS, Tokyo 5-year research contract.	Research Scientist
<b>11/2009 – 01/2010</b> Honest Inc., Tokyo Design and test of an SHTTP tunneling tool.	Consultant (part-time)
<b>10/2007 – 11/2008</b> Stargames, Tokyo Design and implementation of code transformation/emulation platform for mobile software.	Technical Adviser (part-time)
<b>2007, 2008, 2009</b> National Institute of Informatics, Tokyo Lecture about software model checking, once a week over two months per year.	Guest Lecturer (part-time)
<b>06/2005 – 03/2007</b> National Institute of Informatics, Tokyo Hosted by Prof. Honiden. Funded by JSPS. Supervision of two internships. Teaching: <i>Model Checking Networked Programming</i> (tutorial), <i>Advanced Model Checking (Software Model Checking)</i> (lecture).	Postdoctoral Research Fellow
<b>04/2001 – 05/2005</b> ETH Zürich, Computer Systems Institute Project leader of JNuke, a framework for checking Java programs (written in C, 130,000 LOC, 1800 tests). Two visits to the NASA Ames Research Center (ten weeks each time in 2002 and 2003).	Teaching Assistant

## Other Interests

**Sports:** Marathon running, Kendo, hiking, snowboarding (including backcountry).

**Leisure:** modern art, movies, reading.