
DR. KOICHI SASADA

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PERSONAL DATA

Full Name (in Japanese)	笹田耕一
Date of Birth	20 November 1979
Nationality	Japanese

EDUCATION

12/2007	PhD in Information Science and Engineering, The University of Tokyo <i>"Efficient Implementation of Ruby Virtual Machine"</i>
03/2004	Master Degree in Engineering, Tokyo University of Agriculture and Technology <i>"A study of Systems Software for Multithreaded Architecture"</i>
03/2003	Bachelor Degree in Engineering Tokyo University of Agriculture and Technology <i>"Implementation and Evaluation of a Thread Library for Multithreaded Architecture"</i>

ACADMIC WORK EXPERIENCE

09-11/2010	Visiting Researcher at Sheffield Halam University
02/2008-	Assistant professor at Graduate School of Information Science and Technology, The University of Tokyo
04/2006-02/2008	Assistant Associate at Graduate School of Information Science and Technology, The University of Tokyo
07/2004-03/2005	Research Assistant at Tokyo University of Agriculture and Technology

HONORS AND AWARDS

04/2010	Funai Research Encouragement Award
11/2008	1st Rakuten technology award: Ruby Award
10/2008	7th North-East Asia OSS Promotion Forum: CJK OSS Award
05/2008	4th IPA (Information-Technology Promotion Agency, Japan) Award (OSS category)
10/2007	IPA Open Source Contributor Award
05/2005	IPA ESP: Accreditation of super creator for development of YARV (Virtual machine for Ruby)

PROFESSIONAL AFFILIATIONS

IPSJ	Information Processing Society of Japan
ACM	Association for Computing Machinery

EXTRA ACTIVITIES

2007-	Committer of Ruby interpreter (VM maintainer)
2006-2011	RubyKaigi 2006, 2007, 2008, 2009, 2010, 2011: Program chair

RESEARCH INTERESTS

- Programming language processor (Compiler and Interpreter), especially for dynamic languages such as programming language Ruby. The YARV virtual machine was designed by us for Ruby and was merged into official Ruby interpreter (Ruby 1.9 or later).
- Programming language runtimes such as Garbage collection and thread mechanisms.
- Parallel processing systems with multi-core, many-core processor and multi-threaded processor. For example, “easy” parallel scripting language for productive parallel programming.
- Operating systems for real-time embedded systems.
- Virtual machine monitor and thin-client systems.

RESEARCH GRANTS

2011	X10 Innovation Awards: Scripting on X10 - Ruby Script to X10 Program Translator
2010	Google Research Awards: Ruby Interpreter for Embedded Environment
2009-2011	Japanese Ministry of Education, Science, Sports and Culture, Grant-in-Aid for Young scientists (B)
2007-2008	Japanese Ministry of Education, Science, Sports and Culture, Grant-in-Aid for Young scientists (Startup)
2006	IPA (Information-Technology Promotion Agency, Japan) MITOH Project (ESP: Exploratory Software Project)
2005	IPA MITOH Project (ESP)
2004	IPA MITOH Project Youth (ESP Youth)

REVIEWED PAPERS

- Koichi Sasada: Ricsin: A System for "C Mix-in to Ruby" (in Japanese), IPSJ Transactions (PRO), Vol.2, No.2, pp.13-26 (2009.3).
- Koichi Sasada, Yukihiro Matsumoto, Atsushi Maeda, Mitaro Namiki: An Implementation of Parallel Threads for YARV: Yet Another RubyVM (in Japanese), IPSJ Transactions (PRO), Vol.48, No.SIG10(PRO33), pp.1-16 (2007).
- Koichi Sasada, Yukihiro Matsumoto, Atsushi Maeda, Mitaro Namiki: YARV: Yet Another RubyVM -- The Implementation and Evaluation (in Japanese), IPSJ Transactions (PRO), Vol.47, No.SIG 2(PRO28), pp.57-73 (2006.2).
- Koichi Sasada, Mikiko Sato, Kaname Uchikura, Yoshiyasu Ogasawara, Hironori Nakajo, Mitaro Namiki: A Lightweight Synchronization Mechanism for an SMT Processor Architecture (in Japanese), IPSJ Transactions (ACS), Vol.46, No.SIG16(ACS12), pp.14-27 (2005.12).
- Koichi Sasada, Mikiko Sato, Shoji Kawahara, Norito Kato, Masanori Yamato, Hironori Nakajo, Mitaro Namiki: Implementation and Evaluation of a Thread Library for Multithreaded Architecture (in Japanese), IPSJ Transactions (ACS), Vol.44, No.SIG11(ACS3), pp.215-225 (2003.9).

PRESENTATIONS AT INTERNATIONAL CONFERENCE

- K.Sasada: RubyMemory Management Hacks, Oral Presentation at Ninth International Ruby Conference.at San Francisco, California on November 19-21 of 2009
- K.Sasada: Future of RubyVM, Oral Presentation at Eighth International Ruby Conference. at Orlando, Florida on November 6-8 of 2008.
- K.Sasada: Ruby meets VM, Oral Presentation at European Ruby Conference (EuRuKo2008) at Prague, March 29th-30th, 2008.
- K.Sasada: YARV: on Rails?, Oral Presentation at Sixth International Ruby Conference. at Denver, CO on October 20-22, 2006
- K.Sasada: YARV: Yet Another RubyVM - Innovating the Ruby Interpreter (Poster), Companion to the 20th Annual ACM SIGPLAN Conference on Object-Oriented Programming, Systems, Languages, and Applications, OOPSLA 2005, pp.158--159 (2005).
- K.Sasada: YARV Progress Report, Oral Presentation at Fifth International Ruby Conference, at San Diego, CA on Oct.14 - Oct.16, 2005.
- K.Sasada: YARV: Yet Another RubyVM, Oral Presentation at Fourth International Ruby Conference, at Virginia, on Oct.1 - Oct.3, 2004.
- K.Sasada, M.Sato, S.Kawahara, N.Kato, M.Yamato, H.Nakajo and M.Namiki: Implementation and Evaluation of a Thread Library for Multithreaded Architecture, The 2003 International Conference on Parallel and Distributed Processing Techniques and Applications (PDPTA'03), Vol.II, pp. 609--615 (2003).

Other activities is listed at <http://atdot.net/~ko1/activities/> in Japanese.