

Randall R. Schulz

H&S Information Systems
http://www.hsinfosystems.com
rschulz@hsinfosystems.com

1 Education

University of Wisconsin (Madison) 9/76 to 6/82
Major: Computer Sciences
Concentration: Operating System Design, Systems Programming

2 Employment

- [H&S Information Systems] (Mountain View, CA & Guerneville, CA) 11/2001 to present; Principal, Software Architect
- [A9.com] (a division of Amazon.Com, Palo Alto, CA) 4/2005 to 10/2006; Senior Software Engineer
- [CRESST / UCLA] (Los Angeles, CA) 5/2004 to 9/2004; Senior Programmer
- [Teknowledge, Inc.] (Palo Alto, CA) 7/97 to 5/2001; Senior Software Engineer
- [PixelCraft, Inc.] (a Xerox company) (San Leandro, CA) 5/93 to 11/96; Senior Programmer
- [Adobe Systems Incorporated] (Mountain View) 3/91 to 9/92; Software Scientist
- [Philips Interactive Media] (Los Angeles) 4/90 to 1/91; Senior Programmer
- [American Interactive Media] (Los Angeles) 10/88 to 4/90; Senior Programmer
- [Locus Computing Corp.] (Los Angeles) 9/83 to 4/88; Senior Programmer
- [Quotron Systems Inc.] (Los Angeles) 7/82 to 8/83; Programmer

3 Publications

J. Halcomb and R.R. Schulz. Tau: A web-deployed hybrid prover for first-order logic with identity, with optional inductive proof. *12th international conference, LPAR 2005: Proceedings*, 2005.

Pat Hanrahan, Randy Schulz and Leonard Uhr, A Primer on Image Manipulation Using a High Resolution Color Display Terminal, *Univ. of Wisconsin Computer Science Tech Reports, Tech Report TR476*, 1982.

4 Synergistic Activities

Papers and Presentations

- An overview of Tau, paper for the CADE-20 Workshop on Empirically Successful Classical Automated Reasoning (ESCAR), held 22nd-23rd July, 2005 at the 20th International Conference on Automated Deduction (CADE) Tallinn, Estonia, 22nd July - 26th July, 2005 (Abstracts)
- Slides for ESCAR (Full version, PDF)
- Stanford Mathematical Logic Seminars, Axiomatizing Einstein's Mice; Slides, Nov. 8, 2005

Selected Languages and Software Technologies

C (2+ decades); C++ (1+ decades); Java (8 years); Groovy and Grails; Hibernate; Lisp, Prolog; Scala; Process Specification Language (PSL); J2EE: Servlets, JSP, Custom Tag Libraries, JavaBeans, Web Applications, Swing; XML; MySQL; YACC / Bison and Lex / Flex; JavaCC; ANTLR; UNIX / Linux Shells; Perl; CORBA (using C++ and Java) CLISP; XSB Prolog

Development Systems

Sun JDK, versions 1.1.x through 1.6; IntelliJ / JetBrains IDEA; jEdit; Cygwin (POSIX emulation for Windows); Microsoft Visual Studio

Operating Systems and Platforms

Linux; UNIX kernel, driver, systems and application programming ;v6, v7, 32v, BSD, Locus / AIX-TCO, System III, System V r2 and r3, Linux, Solaris; Streams / TLI; Macintosh OS, OS X; Windows NT, 2000, XP

Application Areas

Mathematical logic; logic programming and knowledge-based systems; networking: distributed, client/server computing and service-oriented architectures (SOA); geographical information systems (GIS); programming language design and compiler construction; image processing.

Other Expertise

Object-Oriented Analysis and Design; UML; Extensible and Framework-based software design; Programming language principles; OS design and implementation; Typography, 4-color process printing; color scanners; color theory.

5 Collaborators and Other Affiliations

- Common Logic Standard: as ISO effort towards an international standard for Common Logic, now in Final Draft. This project was assigned to WG2 (Metadata) under SC32 (Data Interchange) of ISO/IEC JTC1. In October 2003, Harry Delugach (delugach@cs.uah.edu) was designated the editor for the standard. Other participants: Jay Halcomb, Patrick Hayes, Chris Menzel, Randall Schulz, John Sowa, and others.
- Association for Computing Machinery, Member
- IEEE Member (including the Computer Society), Member
- 1st North American Summer School in Logic, Language, and Information (NASSLLI 02), with the 11th Logic, Language, and Computation Colloquium Stanford, CA, June 24-30, 2002
- **IEEE Standard Upper Ontology (SUO) Working Group**,
- **Foundations of Mathematics list-serv**
- **Ontolog community** - ontology, ontological engineering and semantic technology