

# Karl A. Nyberg

---

## Publications and Talks

- Nyberg, Karl A. "[Automatically Generating DTD-Specific XML Parsers](#)", ACM SIGAda AdaLetters, August 2010. Also available at <http://www.hdfgroup.org/pubs/others/>.
- Nyberg, Karl A. "[Parsing Hierarchical Data Format \(HDF\) Files](#)", ACM SIGAda AdaLetters, August 2010. Also available at <http://www.hdfgroup.org/pubs/others/>.
- Nyberg, Karl A. "[Multi-Core + Multi-Tasking = Multi-Opportunity?](#)", Proceedings of the ACM SIGAda 2007 conference, Fairfax, VA. November 2007; also ACM SIGAda AdaLetters XXXVII #4, pp. 79-81, December 2007. ([Slides](#))
- Nyberg, Karl A. "[A Constructive Approach to Integer Factorization](#)", an evaluation of the Sun Microsystems SunFire T1000.
- Nyberg, Karl A. "[Fun v. Tedium](#)", Letters to the Editor, *IEEE Software*, p. 9, May/June 2007. (Also available at [IEEE Software](#))
- Ausden, Howard and Nyberg, Karl A. "[Using ASIS to Generate C++ Bindings](#)", Proceedings of the ACM SIGAda 2005 conference, Atlanta, GA. November 2005; also ACM SIGAda AdaLetters XXV #4, pp. 23-30, December 2005. ([Slides](#))
- Nyberg, Karl A. "[Windows Disk Drive Recovery with Ada95 – An Application Note](#)", ACM SIGAda AdaLetters XXV #2, pp. 42-44, June 2005.
- Nyberg, Karl A. "[Optical Character Recognition \(OCR\) of Cryptographic Source Code](#)". ACM Washington, DC Special Interest Group on Ada (SIGAda), McLean, VA. May 8, 2003.
- Nyberg, Karl A. "[Barbarians at the Gate – Stopping Spam in its Tracks](#)", 2001.
- Emery, David E.; Mathis, Robert F.; and Nyberg, Karl A. "[Automating the Ada Binding Process for Java - How Far Can We Go?](#)" Reliable Software Technologies: Proceedings of the Ada Europe 1998 conference, June 1998, Uppsala, Sweden.
- Nyberg, Karl A., (Editor), "The Annotated Ada Reference Manual", Third Edition, March 1994.
- Engle, Charles B., Jr and Nyberg, Karl A. "[Mandating Ada Compiler Evaluation](#)", Invited Paper. Minutes of the Federal Advisory Board on Ada, June 27, 1991. Pittsburgh, PA. ([slides](#))
- Nyberg, Karl A., "Ada: Sources & Resources", Third Edition - April 1991.

- Nyberg, Karl A., “A Study of Ada's Input-Output Packages”, SEI Special Report. 1990.
- The Ada 9X Revision Requests – Fact & Fantasy. MITRE Corporation, McLean, VA. April 10, 1990.
- Emery, David and Nyberg, Karl A., “[Observations on Portable Ada Systems](#)”, in “Ada: The Design Choice”, Proceedings of the Ada-Europe International Conference, Madrid, Spain, 13-15 June 1989. Cambridge University Press. Also MITRE Technical Paper MTP-282; February 1989, Bedford, MA. ([slides](#))
- Nyberg, Karl A., “[Denial of Service Flaws in SDI Software: An Initial Assessment](#)”, Proceedings of the Fourth Aerospace Computer Security Applications Conference, December 12-16, 1988, Orlando, FL.
- Donaldson, Albert L.; McHugh, John; Nyberg, Karl A., “[Covert Channels in Trusted LANs](#)”, The 11th NBS/NCSC National Computer Security Conference, pp. 226 – 232. October 17-20, 1988, Baltimore, MD.
- Nyberg, Karl A. “The Application of Formal Methods to Ada Software Development”. ACM SIGAda, Phoenix, AZ. March 24, 1988.
- Preston, David; Nyberg, Karl A.; Mathis, Robert. “[An Investigation Into the Compatibility of Ada and Formal Verification Technology](#)”, 6<sup>th</sup> National Conference on Ada Technology: Ada in the Life Cycle, March 14-17, 1988, Arlington, VA ([extended abstract](#)).
- Nyberg, Karl A. “Porting Ada Applications between a PC and a VAX”. Capital Area PC Users Group (CPCUG) Ada Special Interest Group, Bethesda, MD. February 15, 1988.
- Lee, JAN and Nyberg, Karl A., “[Strategies for Introducing Formal Methods Into the Ada Life Cycle](#)”, SPC-TR-88-002, Version 1.0. Software Productivity Consortium, January 1988, Reston, VA. Also [Virginia Tech - CS TR-88-09](#).
- Nyberg, Karl A. “[Using Representation Clauses as an Operating System Interface](#),” Ada Letters, Volume VII, Number 4, July - August, 1987; pp. 98-101.
- Nyberg, Karl A., “[Implementing Curses in Ada](#)”, Proceedings of the 1986 USENIX Winter Conference, January 1986, Denver, CO.
- McHugh, John and Nyberg, Karl A., “[Adapting the Gypsy Verification System to Ada](#)”, in Proceedings of the First IDA Workshop on Formal Specification and Verification of Ada, Clyde G. Roby, ed., Memorandum Report #M-146, December 1985, Alexandria, VA. ([slides](#))
- McHugh, John and Nyberg, Karl A., “[Ada Verification Using Existing Tools](#)”, IEEE Software Engineering Notes, V 10, no 4. Special Issue: Proceedings of Verkshop III, pp. 104-106. August 1985.
- Nyberg, Karl A.; Hook, Audrey A.; Kramer, Jack F., “[The Status of Verification Technology for the Ada Language](#)”, IDA Paper #P-1859, July 1985, Alexandria, VA.

- Nyberg, Karl A.; "[A Methodology for Using Algebraic Specifications](#)", Master's Thesis, Massachusetts Institute of Technology, June 1981. Cambridge, MA.
- Nyberg, Karl A.; "[An Experiment Using Algebraic Specifications](#)", Bachelor's Thesis, Massachusetts Institute of Technology, August 1980. Cambridge, MA.