Miklós Csűrös

Yale University
Department of Computer Science
P.O. Box 208285 Yale Station
New Haven, CT 06520-8285
(203) 432-1238
csuros-miklos@cs.yale.edu
http://www.cs.yale.edu/homes/csuros-miklos/

86 Prospect Street
New Haven, CT 06511
(203) 865-2145

EDUCATION

- **Yale University**, New Haven, CT.
  Ph.D. in Computer Science, expected graduation: 1999.
  M.Phil. in Computer Science, expected May 1997.
  Master's project: *Learning Variable Length Markov Chains from Noisy Output.*
- **Technical University of Budapest**, Hungary.
  Diploma [M.Sc.] in Electrical Engineering, July 1994.
  Thesis title: *Fast Algorithms in Computational Learning Theory.*
- **Technical University of Vienna**, Austria.
  Spring 1993. Coursework in Computer Science, Marketing and Mathematics.
- **Compiègne University of Technology**, France.
  Fall 1991. Coursework in Computer Science and Mathematics.
- **Scholarships**
  - Yale Fellowship (September 1994 – present)
  - European Community (TEMPUS) Scholarship (Summer – Fall 1991)
  - Scholarship of the Technical University of Budapest (Spring 1993)
  - Scholarship of the Faculty of Electrical Engineering of the Technical University of Budapest (Spring 1993 & 1994)

RESEARCH INTERESTS

Machine learning, statistical pattern recognition, data compression. Applications to natural language processing, molecular biology, image recognition.

RESEARCH PROJECTS

- Current research in computational learning theory. Advisor: Dana Angluin.
  Probabilistic Finite Automata, Hidden Markov Models.
- Research project: descriptive decision models in economics at the Technical University of Vienna. (Attributed 2nd prize at the Fall Student Conference of the Technical University of Budapest.) (Spring – Fall 1993)
- Team research project: comparison of adaptive control methods including fuzzy systems, neural networks and methods based on statistical decision theory. Design and implementation of a C/IBM PC program to simulate the driving of a truck. (Won 3rd prize at the Spring National Student Conference, and the award of the Hungarian Scientific Society for Telecommunications.) (Fall 1992 – Spring 1993)
- Research project: theory and application of binary decision trees in pattern recognition. (Awarded 2nd prize at the University Student Conference.) (Fall 1992)

PUBLICATION

Learning Markov chains with variable memory lengths from noisy output. (with Dana Angluin) *submitted to COLT'97.* (Extended abstract available as `http://www.cs.yale.edu/homes/csuros-miklos/colt97abs.ps`).

Skills

- ◇ C, FORTRAN, HTML, Lisp/Scheme, CA-Clipper/DBASE, Intel x86, Pascal
- ◇ perl, csh, Tcl/Tk, awk
- ◇ CDE, AIX, Unix, MS-DOS, MS-Windows, OpenWindows, CTOS, VMS, Novell
- ◇ Fluent spoken/written English, French, German, and Hungarian; fair Spanish, Polish

Work experience

- ◇ **Teaching Assistant**, Yale University (January 1995 – present)
  Courses: Theoretical Methods in Computer Science, Algorithms, Introduction to Computer Science, Cryptography and Network Security, Theory of Dictributed Systems
- ◇ **Programmer**, Department of Bioinformatics, CuraGen Corp., Branford, CT (Summer 1996)
  - · Designed and implemented optimizing peak fitting program to process electrophoresis data.
  - · Designed and implemented multiple band matching algorithm to compare gene expression levels.
  - · Wrote Prolog-Oracle interface in C/Pro*C to increase the speed of gene data analysis.
- ◇ **Technical Writer**, Sysland Ltd., a partner of UNISYS Corp., Hungary (October 1993 – June 1994)
  Designed and co-authored textbook and course materials for OTP Bank — the largest Hungarian bank — (materials used in the instruction of all the tellers on the software/hardware solution delivered by Unisys).
- ◇ **Internship**, Zaragoza University, Spain (Summer 1993)
  - · Installed and maintained Oracle in IBM PC environment.
  - · Designed SQL exercises for database course.
- ◇ **Research Assistant**, Department of Mathematics and Computer Science, Technical University of Budapest (Summer 1992)
  Assisted in the writing of a textbook on statistical pattern recognition.
  (L. Devroye, L. Györfi, G. Lugosi: Probabilistic Theory of Pattern Recognition, Springer-Verlag NY, 1996.)
- ◇ **Freelance programmer** (1990 – 1994)
  Designed and developed CA-Clipper programs for complex database management tasks. The clients were usually small/medium-size businesses ranging from retail stores to nationwide distributors of medical products.
- ◇ **Translator**, Tóth Translation Agency, Budapest, Hungary (1992 – 1995)
  Translated technical texts mostly in the field of Electrical Engineering from English or German into Hungarian and from Hungarian into English.

Reference Available on request.