Seppo Enarvi

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PERSONAL DATA

Nationality: Finland
Date of Birth: February 23rd, 1980
Marital Status: Single

OBJECTIVE

I like to work with algorithms, make use of my knowledge in informatics and software development, learn constantly, and challenge myself.

RESEARCH INTERESTS

Machine learning, artificial neural networks, speech recognition, computer vision

EDUCATION

Aalto University School of Electrical Engineering,
Department of Signal Processing and Acoustics,
Espoo, Finland

Doctor of Science (Technology) — May 2017 (Expected)
- Research Field: *Automatic Speech Recognition*
- Thesis: *Automatic recognition of conversational Finnish speech*

Aalto University School of Science,
Department of Information and Computer Science,
Espoo, Finland

Licentiate of Science (Technology) — September 2007 to September 2012
- Research Field: *Computer and Information Science*
- Thesis: *Finnish language speech recognition for dental health care*

Helsinki University of Technology,
Department of Computer Science and Engineering,
Espoo, Finland

Master of Science (Technology) — September 1999 to August 2006
- Major: *Interactive Digital Media*
- Minor: *Telecommunications Software*
- Extended curriculum in mathematics and physics
- Thesis: *Image-based detection of defective logs*

Asian Institute of Technology School of Engineering and Technology,
Information and Communications Group,
Pathumthani, Thailand

Exchange Study — August 2005 to December 2005

PROFESSIONAL EXPERIENCE

Aalto University School of Electrical Engineering,
Department of Signal Processing and Acoustics,
Espoo, Finland

Doctoral Candidate — January 2013 to present
- Collected conversational Finnish text data from the Internet.
- Supervising collection of acoustic training data (DSPCON corpus).
- Developed methods for filtering language model training data.
- Developed methods for addressing data sparsity in conversational Finnish.

Aalto University School of Science,
Department of Information and Computer Science,
Espoo, Finland

Doctoral Candidate   January 2011 to January 2013

- Constructed language models for automatic speech recognition in dental applications.
- Developed backend software for automatic speech recognition (C++).

International Computer Science Institute,
Berkeley, USA

Visiting Researcher   February 2012 to August 2012

- Worked on speech recognition for conversational speech.

Genera Oy, Helsinki, Finland

Software Designer   May 2001 to December 2011

- Implemented new graphical features to display panel software (C++).
- Designed and developed a distributed system for updating content to InfoScreen elevator displays (C++, PHP, JavaScript).
- Developed image analysis algorithms and designed computer vision systems for timber grading and internal quality control (C++).
- Developed Mitla software for timber measurement and refining (Visual Basic).
- Developed configuration script parsers for control and diagnostics panels (Perl).

JOKO Executive Education Oy, Helsinki, Finland

Computer Assistant   April 1999 to May 1999
       June 1998 to July 1998

- Performed local area network administration.
- Produced graphic content for course material.
- Provided assistance with office software, desktop computers, and A/V equipment.

City of Helsinki Education Department, Helsinki, Finland

IT Project Tutor   January 1998 to May 1998

- Taught common desktop software to school teachers.
- Scanned photographs for Helsinki City Museum's Picture Archives.

PUBLICATIONS

Mikko Kurimo, Seppo Enarvi, Ottokar Tilk, Matti Varjokallio, André Mansikkaniemi, and Tanel Alumäe (Expected in 2015)
Modeling under-resourced languages for speech recognition
Submitted to Language Resources and Evaluation (LRE) Special Issue on Under-resourced Languages

Seppo Enarvi and Mikko Kurimo (2013)
Studies on Training Text Selection for Conversational Finnish Language Modeling
In Proceedings of the 10th International Workshop on Spoken Language Translation (IWSLT 2013)

Seppo Enarvi and Mikko Kurimo (2013)
A Novel Discriminative Method for Pruning Pronunciation Dictionary Entries
In Proceedings of the 7th International Conference on Speech Technology and Human-Computer Dialogue (SpeD 2013), pages 113–116

PROGRAMMING EXPERTISE

I am especially confident in C++ programming, Standard Template Library, and Boost C++ Libraries, and I am keen to write aesthetic code. I have gained experience in image analysis, network programming, and concurrent programming.

PROGRAMMING LANGUAGES	C++, C, Java, Python, PHP, Perl, Assembler
SYSTEMS AND TOOLS	Windows, Linux, Eclipse, Git, CVS, CMake, GNU Make
SPOKEN LANGUAGES	Finnish (native), English (excellent written and spoken), Swedish (fluent written and fair spoken), German (fair written)

ACTIVITIES AND OTHER TRAINING

Finnish Canoe Federation Intro Course   May 2011
    Helsingin Melojat ry

Finnish Climbing Association Lead Climbing Course   2009
    Oranki ry

Finnish Climbing Association Rock Climbing Course   May 2008
    Oranki ry

Finnish Climbing Association Indoor Climbing Course   April 2008
    Oranki ry

MuayThai 2 (Intermediate Course)   December 2005
    MuayThai Institute, Rangsit, Thailand

MuayThai 1 (Basic Course)   September 2005
    MuayThai Institute, Rangsit, Thailand

Basic Course in Maintaining Order   December 2003
    Daifu-Service Oy

CMAS One Star Diver (P1) Course   December 2003
    PSK Kupla ry

Basic Course in Thai Boxing   March 2001
    King of the Ring Ry

Military Service   January 2000 to December 2000
    The Finnish Defence Forces, Guard Jaeger Regiment
- Rank: *Corporal*
- Received military police training.

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