# CURRICULUM VITAE

## Personal data


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| Name | Kjell Otto Erling Elenius |
| Born | May 17th 1946 at Vittangi sjukstuga, Lappland, Sweden |
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## Education

Master of Science in Electrical Engineering, KTH, Stockholm, 1970.

Doctor of Science, "Techniques and devices for automatic speech recognition - acoustic front end processing and selected linguistic aspects", 1993.

## Employment

Member of the research staff at the Department of Speech Communication and Music Acoustics, KTH, Stockholm, since 1970.

Main research interests: speech analysis and recognition.

Project leader since 1974.

## Research interests

Speech recognition; especially acoustic-phonetic decoding, neural networks, lexical look-up, dialogue handling, mixing symbolic knowledge and statistics.

Language statistics on speech and text corpora.

Use of speech technology in practical systems, also for the disabled.

## Special engagements

Developed, together with Mats Blomberg, a speech recognition system for voice dialling in an intercom exchange in 1982. The product, PRINA, was marketed by the Ericsson company.

Developed the speech recognition system marketed by Infovox AB, since 1983, together with Mats Blomberg.

Consultant, since 1984, for the Swedish company, Infovox AB (currently Telia Promotor Infovox AB), regarding speech recognition.

Developed, together with Mats Blomberg, a noise resistant speech recognition system for Infovox and Ericsson to be used for voice dialling in running cars in 1988.

Participated as a Swedish expert in the European COST 232 project, "Speech Recognition over the Telephone Line", during its 4 years ending in 1993.

Participated, with Mats Blomberg, as a speech recognition expert in the 3 year Swedish VOICE project, which ended in 1994, regarding the use of speech recognition and speech synthesis in cars for traffic and other information and was headed by Volvo. VOICE was a subproject to the Swedish RTI program (Road Traffic Informatics), which was based on the two European projects PROMETHEUS and DRIVE.

Currently participating as a Swedish expert in the European COST 249 project, "Continuous Speech Recognition over the Telephone Line", started in Aug. 1994, and chairman of the working group dealing with Phonetic Decoding.

Has performed the conversion to Swedish of the American English speech recogniser DragonDictate at Dragon Systems, Newton, Massachusetts. The product now has a built in vocabulary of 5600 Swedish words, and is, since the Fall of 1994, marketed by the Swedish companies, TeleNova and Retech, mainly for the handicap market.

Is currently a consultant to TeleNova and speech expert for the building of a 30,000 word Swedish DragonDictate version.

Has recently been responsible at our department for the gathering of a text corpus of around 150 million Swedish words from newspapers, novels, educational books and other text.

Local co-ordinator regarding publications for the Congress of Phonetic Sciences XIII, Stockholm, Aug. 1995, with Peter Branderud, Stockholm University.

Member of the scientific committee for the Congress of Phonetic Sciences XIII, Stockholm, Aug. 1995.