ICALL in decentralized language education

Lene Antonsen, Biret Ánne Bals Baal, Trond Trosterud

http://giellatekno.uit.no/

INTRODUCTION

We have integrated an ICALL-program in web-based university courses for learning North Sami. Through cooperation with local teachers at language centres, it is possible to offer courses that give university credit points in multiple locations. The students live dispersed over a wide area, and not everyone has the opportunity to travel to the university. The final exams are both oral and written, the oral ones are held through the monitor.

NORTH SAMI



North Sami is a Finno-Ugric language with a rich morphology. There are 17 000 speakers altogether, many of them lacking formal education in the language. In addition there are many Samis who have not learned the language from their parents. Dark yellow area shows municipalities where Sami has official status.

COOPERATION

The University of Tromsø offers education in North Sami both on campus and in cooperation with 5 language centres in Sami local communities (cf. map). The centres are strengthening the use of the language in different ways, and the cooperation with UiT makes it possible to study Sami at university level also outside Tromsø. We also cooperate with the universities of Oulu and Helsinki in Finland.

COURSE MATERIALS http://kursa.oahpa.no/

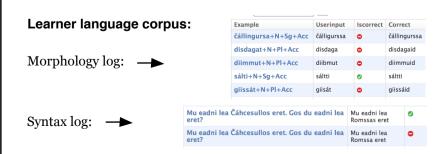
The course materials are on Internet, and consist of texts, dialogues, audio files and links to material on the web. The student is deeplinked into relevant parts of the ICALL program, where the program communicates with the student and comments upon her performance. The link may be quite accurate, e.g. offering the student practice in a certain tense form for a subset of the verbal stem types only. The student can choose Sami, Norwegian, Swedish or Finnish as metalanguage.

ICALL PROGRAMS http://oahpa.no/

The ICALL programs play the role of the grammar teacher, and generate new tasks on demand, systematically covering the core parts of the grammar. The programs are based on NLP – the tasks are generated by means of lexicon, matrices and generators. There are 6 different programs, for learning words, numbers, morphology (2) and syntax (2).

EXAMPLE: Learning accusative vs. nominative

Loga eanet akkusatiivva birra. Guldal goarrut – jietnafiilla. Dat maid don goarut, galgá leat akkusatiivvas. Gearddut cealkagiid. Substantiivvat leat: gákti – gávtti Hárjehala akkusatiivva: Morfa C buyssat – buyssaid Dássi čuvla – čuvlla Loga Ánin Dánin s 14-17 ja oza substantiivvaid nominatiivvas ja akkusatiivvas Hárjehala akkusatiivva: Vasta THE STUDENTS ARE LOGGED The student can follow her own progression, and the teacher can see how the students perform. The input, and how the users correct their input according to the system's feedback, is logged. last login: 2012-04-29 23:34:16 Task based overview: 5.0 Contextual Morfa - A - PREDCOMP - 2svil 4.2 3.0 5 Contextual Morfa - Pron - P-REFL 4.0 0.0 5.0 5 Morfa - A - ATTR - COMP - 2syll 3.75 0.0 5.0 learner language





- anyone who wants to learn North Sami

financed by Noraesuniversitetet.

REFERENCES:

Antonsen, L., Huhmarniemi, S. and T. Trosterud 2009: Interactive pedagogical programs based on constraint grammar. Proceedings of the 17th Nordic Conference of Computational Linguistics. Nealt Proceedings Series 4.



CALL PROGRAMS: Examples

Alwavs new tasks – generated from the database Veahkkerriell English 🛟 Grammar explanations "čuovža" has bisvllabic X Veahkki stem and shall have weak grade. No suffix

Feedback to the student's free input

*
whether nominative goes with a transitive verb.

- 2012: 5 language centres are offering university courses in
- At present we offer 3 different courses (= 50 ETC)
- The course materials and interactive tasks are available for
- Metalanguages are Sami, Norwegian, Finnish and Swedish • The student input is logged, and forms a corpus for research on
- The development of the system is for the period 2011-13 partly