6. Nejedlová D.: Comparative Study on Bigram Language Models for Spoken Czech Recognition. In: Sojka P. et al. (Eds.): Text, Speech and Dialogue, Proceedings of the Fifth International Conference, Brno, Czech Republic, September 9â€“12, 2002, pp. 197â€“204. In: Sojka P. et al. (Eds.): Text, Speech and Dialogue, Proceedings of the Fifth International Conference, Brno, Czech Republic, September 9â€“12, 2002, pp. 189â€“196. 3. Pribil, J.: Czech and Slovak TTS System Based on the Cepstral Speech Model. In: Proc. In P. Sojka, I. Kopecek and K. Pala (eds.), Text, Speech and Dialogue 5th International Conference, TSD 2002, Brno, Czech Republic, September 9-12, 2002. This paper presents a set of strategies that enabled the development of a real-time continuous speech recognition system for Czech language. The optimization strategies include efficient computation of HMM probability densities, pruning schemes applied to HMM states, words and word hypotheses, a bigram compression technique as well as parallel implementation of the real recognition system. In a series of off-line speaker-independent tests done with 1,600 Czech sentences based on 7,033-word lexicon we got 65% recognition rate. Several on-line tests review rates can be achieved under real conditions and with response time that is shorter than 1 second. Copyright © 2015 Branko Lu i et al. This is an open access article distributed under the Creative Commons Attribution License, which permits unrestricted use, distribution, and reproduction in any medium, provided the original work is properly cited. June 2-7, 2001. [14] Z. Zheng, H. Huang and S. Schmeier. Customer Question Answering System to Local Archive. Fifth International Conference on TEXT, SPEECH and DIALOGUE (TSD 2002). Brno, Czech Republic. September 9-12, 2002. Nouza J. (2002) Strategies for Developing a Real-Time Continuous Speech Recognition System for Czech Language. In: Sojka P., Kopecek I., Pala K. (eds) Text, Speech and Dialogue. TSD 2002. Lecture Notes in Computer Science, vol 2448. Springer, Berlin, Heidelberg. Nejedlová D.: Comparative Study on Bigram Language Models for Spoken Czech Recognition. In: Sojka P. et al. (Eds.): Text, Speech and Dialogue, Proceedings of the Fifth International Conference, Brno, Czech Republic, September 9â€“12, 2002, pp. 197â€“204. Nouza J.: A Czech Large Vocabulary Recognition System for Real-Time Applications. In: P. Sojka et al. (Eds.) Text, Speech and Dialogue: Proceedings of the Third International Workshop on Text, Speech, Dialogue. Springer-Verlag, Heidelberg, 2000, pp. 217â€“222. The inclusion of persons with disabilities has always represented an important issue. Advancements within the field of computer science have enabled the development of different types of aids, which have significantly improved the quality of life of the disabled. However, for some disabilities, such as visual impairment, the purpose of these aids is to establish an alternative communication channel and thus overcome the user’s disability. Speech technologies play the crucial role in this process. This paper presents the ongoing efforts to create a set of books on speech technologies for Serbian for the early stages of education of blind and partially sighted children. Two educational applications dealing with memory exercises and comprehension of geometrical shapes are presented, along with the initial tests results obtained from research including visually impaired pupils. When n = 2, we speak about bigrams. This volume contains the Proceedings of the 7th International Conference on Text, Speech and Dialogue, held in Brno, Czech Republic, in September 2004, under the auspices of the Masaryk University. This series of international conferences on text, speech and dialogue. Zhiping Zheng, 1-luiyan Huang and Sven Schmeier. Deploying Web-based Question Answering System to Local Archive. Fifth International Conference on TEXT, SPEECH and DIALOGUE (TSD 2002). Brno, Czech Republic. September 9-12, 2002. Nejedlová D., Volejník K M.: Transkripce psaného Českého textu do fonetické podoby (Phonetic transcription of printed Czech text). In: J. Nouza (Ed.), PoAĂ taĂ ovĂ© zpracovĂ¬nĂ Â™Ă© i. Technical University of Liberec, 2001, pp. 10Â© 22. This work was supported by the Grant Agency of the Czech Republic (grant No. 102/02/0124) and project MSM 242200001. The author wants to thank...