## Studying various features useful in speaker identification system based on vector quantization

## Marieta Gâta

## ABSTRACT.

Paper presents a speaker identification system which use Mel frequency cepstral coefficients for feature extraction and Vector Quantization technique for minimization amount of data.

## REFERENCES

- [1] Rabiner, L., and Biing-Hwang Juang, Fundamental of Speech Recognition, Prentice-Hall, Englewood Cliffs, N.J., 1993
- [2] Soong, F., Rosenberg, E., Juang, B. and Rabiner, L., A Vector Quantization Approach to Speaker Recognition, AT&T Technical Journal, Vol. 66, March/April 1987, pp. 14-26
- [3] Gray, R.M., Vector Quantization, IEEE ASSP Magazine, pp. 4-29, April 1984
- [4] Linde, Y., Buzo, A. and Gray, R., An algorithm for vector quantizer design, IEEE Transactions on Communications, Vol. 28, pp.84-95, 1980
- [5] Gâta, Marieta and Toderean, G., Speaker Identification System Using Cepstal Coefficients and Dynamic Time Warping Algorithm, Carpathian Journal of Electrical Engineering, Vol. 1, Nr. 1, Tranzactions on Electronic and Computer Engineering, pp. 17-23, 2007
- [6] Hasan, R., Jamil, M., Rabbani, G. and Rahman, S., Speaker Identification Using Mel Frequency Cepstral Coefficients, 3rd International Conference on Electrical&Computer Engineering ICECE 2004, 28-30 December 2004, Dhaka, Bangladesh

NOTH UNIVERSITY OF BAIA MARE DEPARTMENT OF MATHEMATICS AND COMPUTER SCIENCE VICTORIEI 76 430120 BAIA MARE, ROMANIA *E-mail address*: marietag@ubm.ro