

EXPERT SYSTEM IMPLEMENTATION METHOD TO THE DETERMINATION OF CONFIGURATION AND STRUCTURE OF FLEXIBLE VACUUMATIC PREHENSION DEVICES USED IN INJECTED PART ROBOTIZED EXTRACTION

TOCUȚ Pavel - Dănuț, ȚARĂ Radu Cătălin, TRIPE-VIDICAN Călin
University of Oradea, Faculty of Managerial and Technological Engineering.

Key words: Expert system, vacuum prehensile device.

The expert system conceived by the authors determines in an automatic way the type of cup, their number and their position on the final effector of the robot and inferentially the position of the cups in relation to the manipulated object, so that the prehensile of the object will be made in optimum and secure conditions.

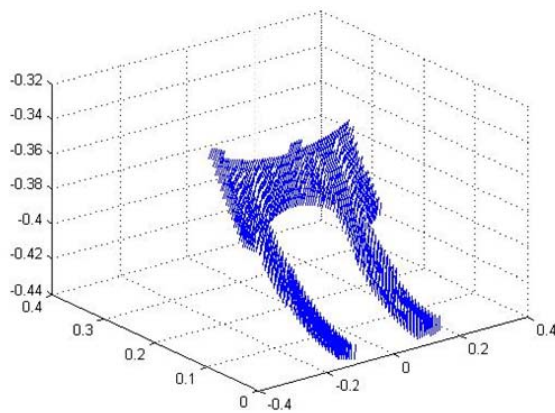


Figure .9. Generating the normal sets .

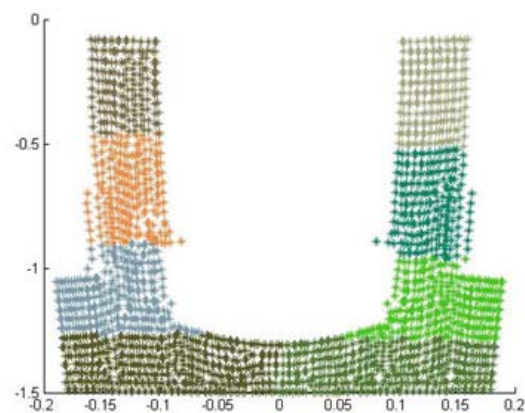


Figure .11. Partitioning in 8 regions

Bibliography

- [1.] Tocuț, P. D. Optimizarea constructivă și funcțională a dispozitivelor de prehensiune neconvenționale . Teză de doctorat. Universitatea din Oradea 2007.
 - [2.] Tocuț, P. D. Dispozitive de prehensiune vacuematice.Optimizarea constructiv –funcțională. Editura Universității din Oradea 2008.
 - [3.] Tripe-Vidican, A. Tocuț, P. D Tripe-Vidican, C. Tehnica vidului în operațiile de manipulare Analele Universității din Oradea. Fascicola Mecanică 2003.
- ***Catalog FESTO – Automatizarea cu ajutorul pneumaticii.