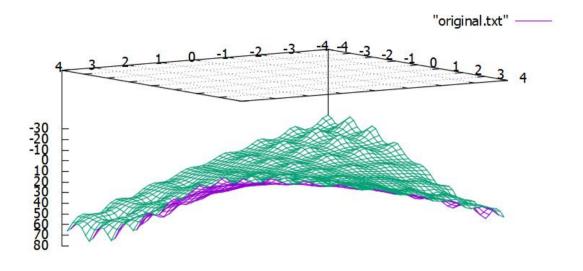
$$\begin{aligned} \mathcal{E}_{\mathcal{K}} &= \frac{1}{\mathcal{K}} \left((y_{\delta} - O_{\delta})^{\Delta} \right) & \underset{\mathcal{A}}{\text{Fright Restrict}} \\ & \circ &= \frac{1}{|\mathcal{A}|} \frac{W(R)}{W(R)} \\ & \sim & -\frac{1}{|\mathcal{A}|} \frac{W(R)}{W(R)} \\ & \sim & -\frac{1}{|\mathcal$$

$$\frac{\partial \mathcal{E}_{R}}{\partial \mathcal{G}_{l}} = \frac{\partial \mathcal{E}_{R}}{\partial \alpha_{k}} \cdot \frac{\partial \mathcal{G}_{R}}{\partial \mathcal{G}_{l}} \cdot \frac{\partial \mathcal{G}_{l}}{\partial \alpha_{k}} \cdot \frac{\partial \mathcal{G}_{l}$$

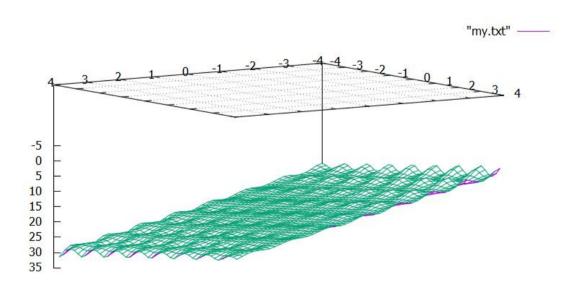
Napomena: kod mene nema razlike kod računanja pravog gradijenta i stohastičke varijante, jedina razlika je koliki mi je m (broj primjera s kojima radim) koji je kod stohastičke varijante m = 1, a kod pravog gradijenta je jednak m = 81 (koliko se primjera tražilo da imamo).

Zadana funkcija nad zadanom domenom:

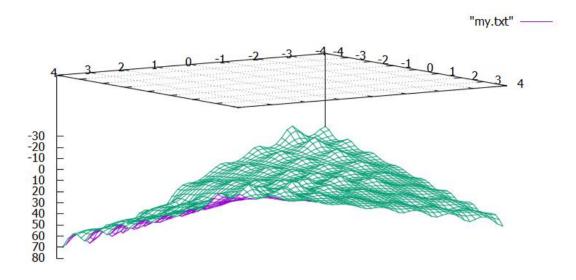


4.

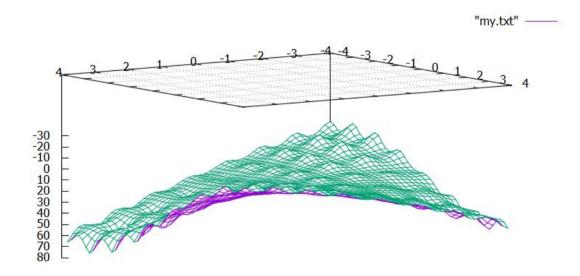
- a) funkcija koju je ANFIS naučio za:
- 1 pravilo:



- 2 pravila:

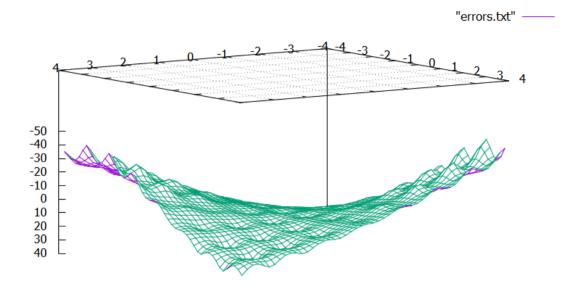


- 7 pravila:

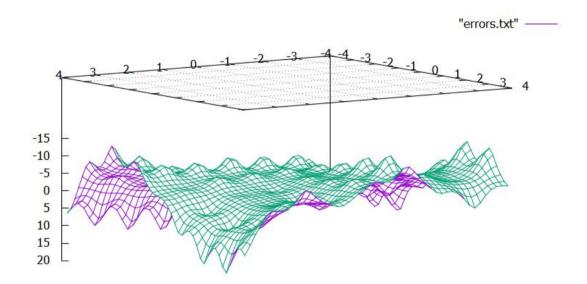


b) odstupanja naučene funkcije i uzoraka za učenje nad svim uzorcima za učenje

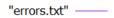
- 1 pravilo:

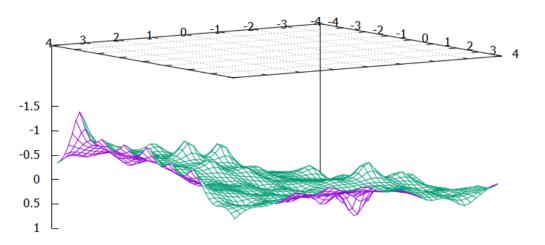


- 2 pravila:



- 7 pravila:

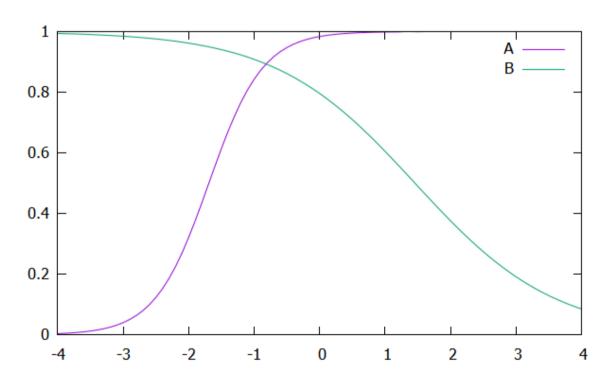




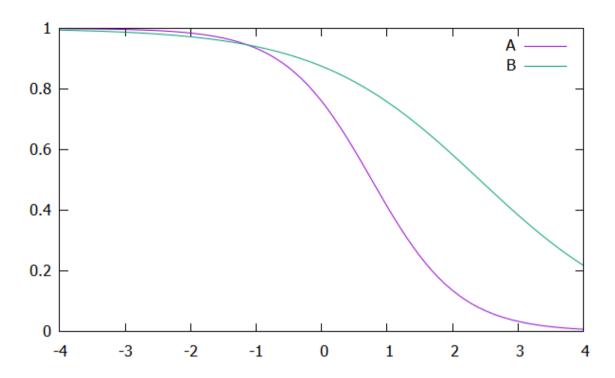
5.

fje pripadnosti za:

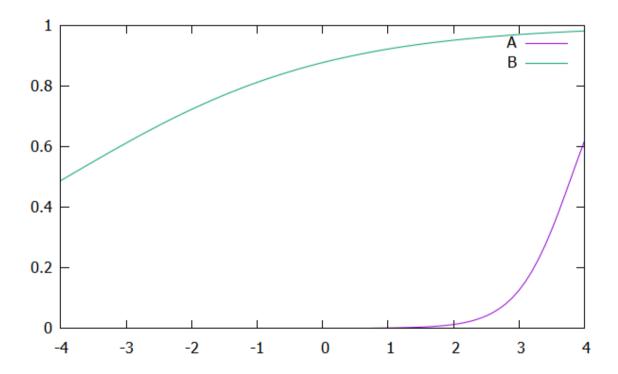
- 1. pravilo:



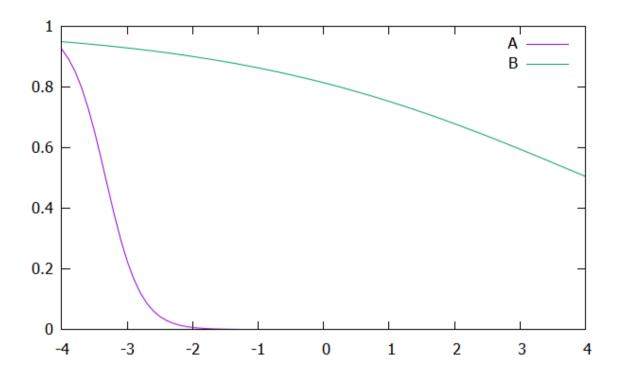
2. pravilo:



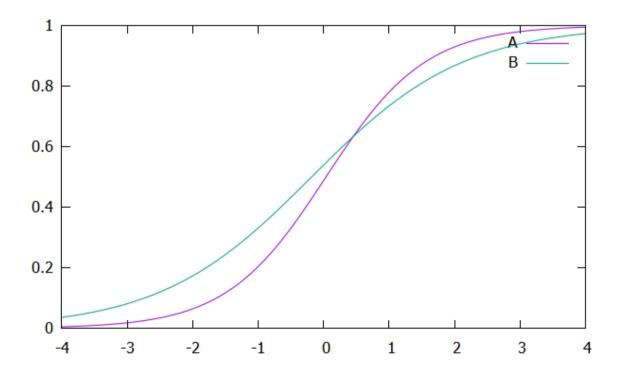
- 3. pravilo:



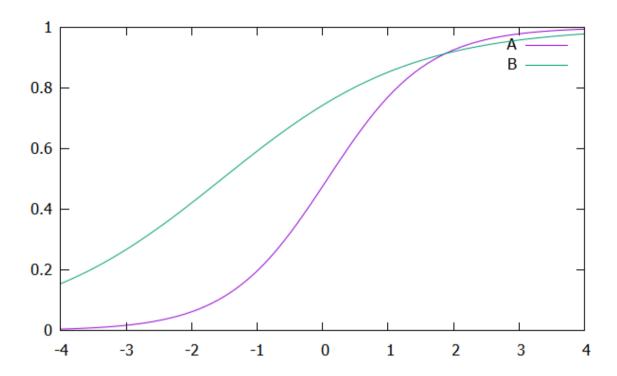
4. pravilo:



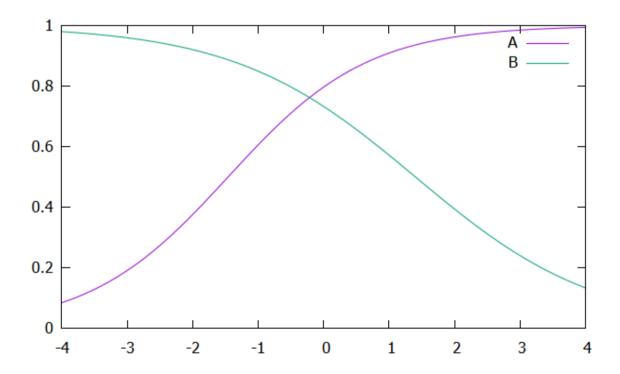
- 5. pravilo:



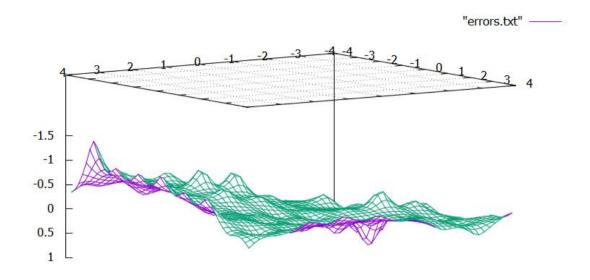
- 6. pravilo:



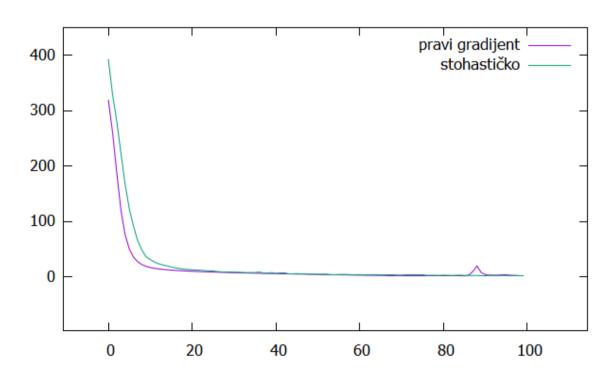
- 7. pravilo:



Funkcija pogreške uzorka na ANFIS-u s 7 pravila:



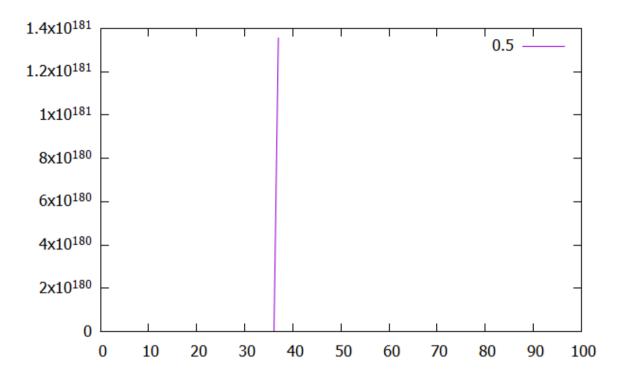
7.Prikaz kako greška pada u ovisnosti o broju epoha:



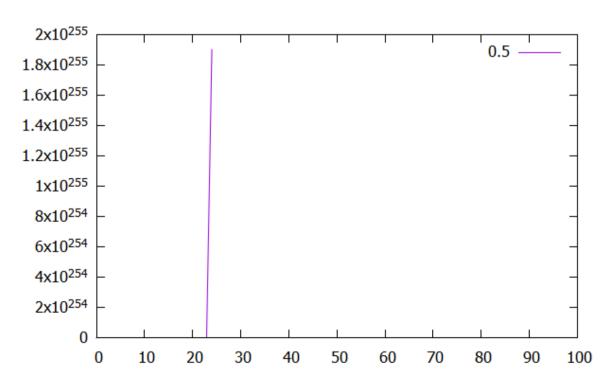
Graf srednje kvadratne pogreške ovisan o broju epoha:

- Za eta = 0.5:

Gradijentni:

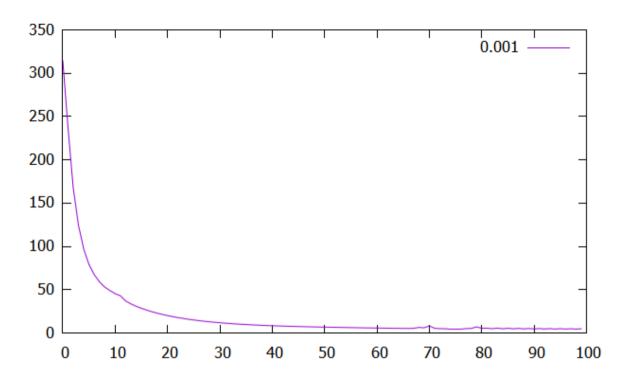


Stohastički:

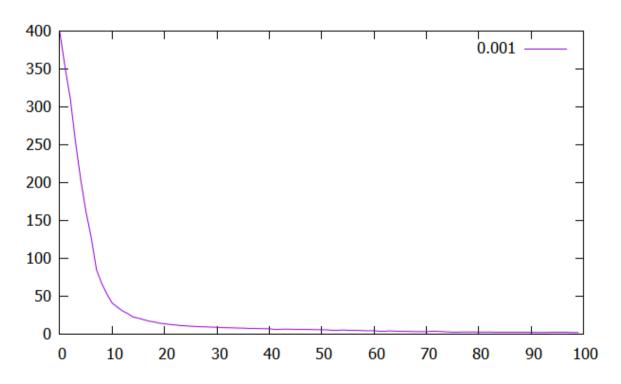


- Za eta je 0.001:

Gradijentni:

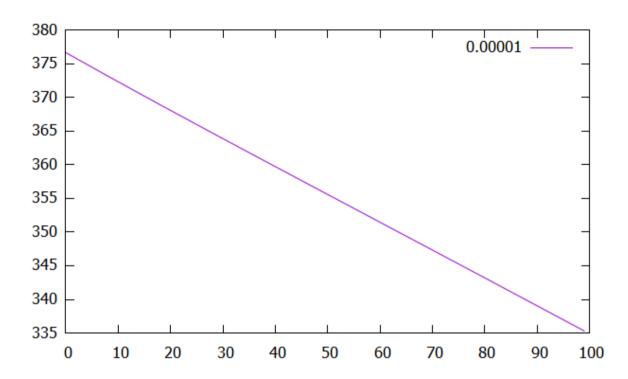


Stohastički:



- Za eta je 0.00001:

Gradijentni:



Stohastički:

