

## Προγράμματα ανοιχτού κώδικα / δωρεάν για ασαφή και νευρωνικά συστήματα

Για την επεξεργασία των πρώτων ασκήσεων, οι φοιτητές που δεν έχουν ή δεν επιθυμούν να χρησιμοποιήσουν το matlab, μπορούν να χρησιμοποιήσουν ένα από τα ακόλουθα διαθέσιμα προγράμματα.



The screenshot shows a web browser window with the URL <https://www.fispro.org/en/>. The browser has several tabs open, including 'Stavroulakis Georgios - Outlook', 'JustNN - Free Neural Network', 'Home - FisPro', and 'in.gr | Όλες οι ειδήσεις - Ολοκ...'. The website content includes the title 'FisPro' in large green letters, followed by the subtitle 'Fuzzy inference system design and optimization'. A navigation menu at the top contains links for 'Home', 'Install', 'Documentation', 'Contributors', and 'Contact'. The main heading is 'Home'. The text describes FisPro as a tool for creating fuzzy inference systems, mentioning its use in simulating physical or biological systems and its basis in fuzzy logic rules. It also notes that despite its assets, FIS as a collaborative framework has not received as much attention as it deserves. On the right side, there is a colorful logo with the letters 'FIS' and a list of language options: English, Français, and Español. The Windows taskbar at the bottom shows various application icons and the system clock indicating 8:51 μμ on 28/11/2018.

**FisPro**

Fuzzy inference system design and optimization

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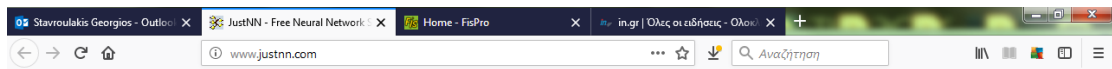
### Home

**FisPro** (Fuzzy Inference System Professional) allows to create fuzzy inference systems and to use them for reasoning purposes, especially for simulating a physical or biological system. Fuzzy inference systems are briefly described in the fuzzy logic glossary given in the user documentation. They are based on fuzzy rules, which have a good capability for managing progressive phenomena. Fuzzy logic, since the pioneer work by Zadeh, has proven to be a powerful interface between symbolic and numerical spaces. One of the reasons for this success is the ability of fuzzy systems to incorporate human expert knowledge with its nuances, as well as to express the behaviour of the system in an interpretable way for humans. Another reason is the possibility of designing data-driven FIS to make the most of available data.

Despite these assets, using FIS as a collaborative framework for system modelling has not been paid as much attention as it deserves, and this ascertainment was our main incentive for starting



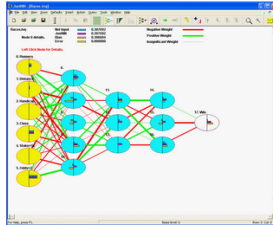
- [English](#)
- [Français](#)
- [Español](#)



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## Free Neural Network Software

Build a Neural Network from your Data in Just a few clicks



Version: 4.0b  
Release Date: 8th April 2013  
Operating Systems: Windows® - all versions  
Setup: Install and Uninstall

[Free Support](#)

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If you like **JustNN**, you could support it with a donation;



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Building neural networks from your data could not be simpler. Import your data from txt, csv, xls, bmp or binary files with just a few clicks. Grow a multi layer neural network that will learn from your data. Validate while the network is learning. Then test or query the network using new data to produce results and see which inputs are really important. The grid in JustNN has no limit of number of rows and can have up to 1000 columns. The networks have no node or connection limits and are fast and very easy to use. JustNN has no evaluation date or time limits.

Turn mountains of data into results with [EasyNN-plus](#)

Forecast the future with [SwingNN](#)

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Γενικά μπορούν να χρησιμοποιηθούν προγράμματα ανοιχτού κώδικα για την υλοποίηση ασαφούς συμπερασμού / ασαφούς λογικής (fuzzy inference / logic), νευρωνικών δικτύων που εκπαιδεύονται με οπισθόδρομη ανάδραση σφάλματος (backpropagation neural networks), νευροασαφή συστήματα (ANFIS) και συναφή που μπορούν να βρεθούν στο δίκτυο ή σε εξειδικευμένα βιβλία.

Για όσους ενδιαφέρονται να εμβαθύνουν στα θέματα αυτά, προτείνεται να διερευνήσουν τις δυνατότητες των ακόλουθων δύο ελεύθερα διαθέσιμων κλώνων του matlab με τα αντίστοιχα πακέτα τους (δεν είναι 100% συμβατά με αυτό)

<https://www.scilab.org/>

<https://www.gnu.org/software/octave/>