

# Resource Summary Report

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## DONE: Detection of Outlier NEurons

RRID:SCR\_005299

Type: Tool

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### Proper Citation

DONE: Detection of Outlier NEurons (RRID:SCR\_005299)

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### Resource Information

**URL:** <http://www.biological-networks.org/p/outliers/>

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**Description:** Software that performs a morphology-based approach for the automatic identification of outlier neurons based on neuronal tree structures. This tool was used by Zawadzki et al. (2012), who reported on and its application to the NeuroMorpho database. For the analysis, each neuron is represented by a feature vector composed of 20 measurements, which are projected into lower dimensional space with PCA. Bivariate kernel density estimation is then used to obtain a probability distribution for cells. Cells with high probabilities are understood as archetypes, while those with the small probabilities are classified as outliers. Further details about the method and its application in other domains can be found in Costa et al. (2009) and Echtermeyer et al. (2011). This version requires Matlab (Mathworks Inc, Natick, USA) and allows the user to apply the workflow using a graphical user interface.

**Abbreviations:** DONE

**Synonyms:** Detection of Outlier NEurons

**Resource Type:** software application, software resource

**Defining Citation:** [PMID:22615032](#)

**Keywords:** neuron, feature-space, archetype, outlier, matlab, neuromorphometry, computational neuroscience

**Funding:** FAPESP 05/00587-5;  
CNPq 301303/06-1;  
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EPSRC EP/E002331/1;  
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**Availability:** GNU General Public License

**Resource Name:** DONE: Detection of Outlier NEurons

**Resource ID:** SCR\_005299

**Alternate IDs:** nlx\_144348

**Alternate URLs:** <http://www.nitrc.org/projects/done>

**Record Creation Time:** 20220129T080229+0000

**Record Last Update:** 20260912T200234+0000

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## Ratings and Alerts

No rating or validation information has been found for DONE: Detection of Outlier NEurons.

No alerts have been found for DONE: Detection of Outlier NEurons.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We have not found any literature mentions for this resource.