

Application Development for Mobile and Ubiquitous Computing

Mushroom recognition Second Presentation

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symbian OS

Symbian OS - one of
Nokia's mobile operating
systems for mobile
devices and smartphones,

with associated libraries, user interface, frameworks and
reference implementations of common tools.

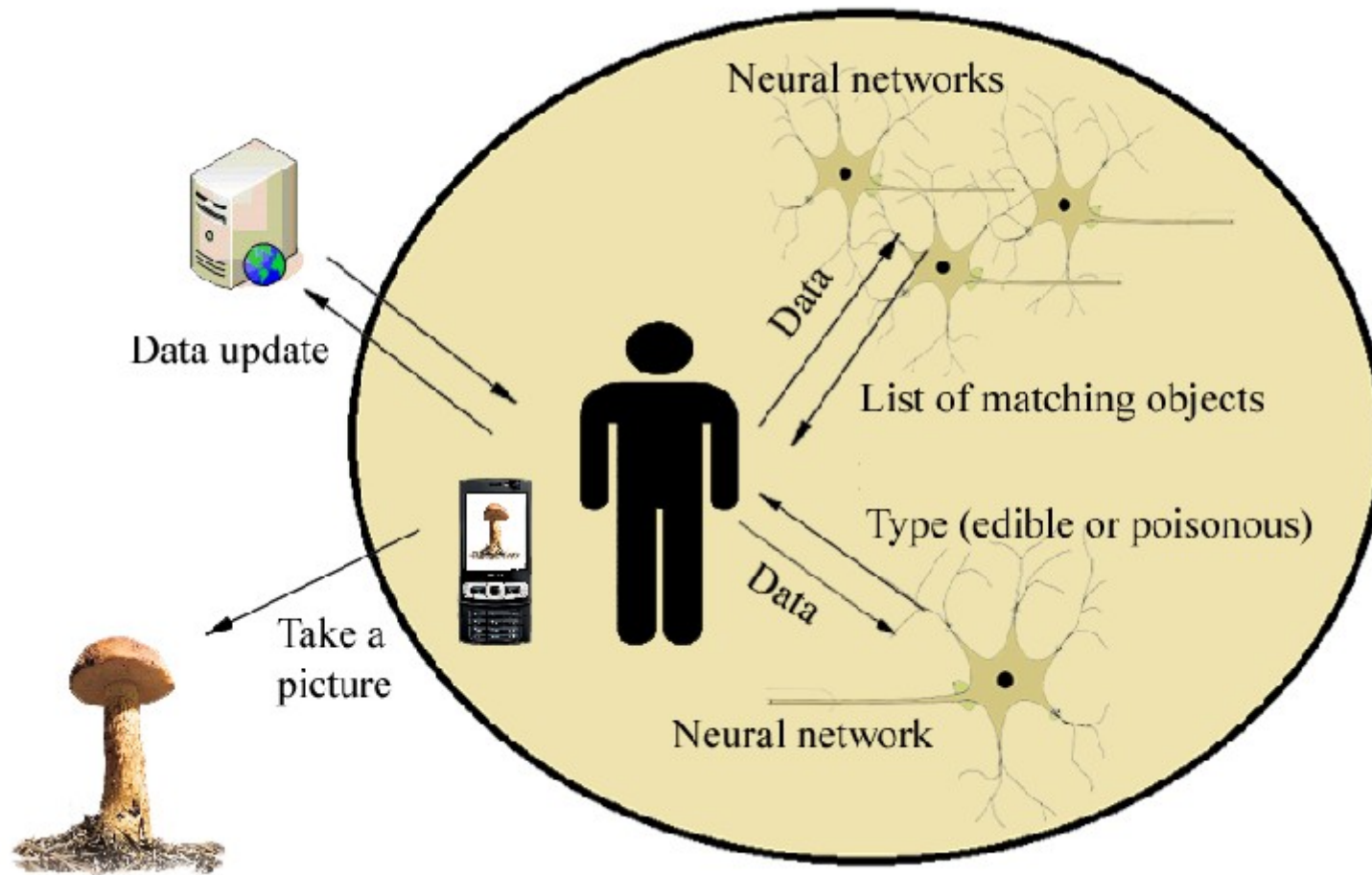


Artificial neural network

(ANN) - a mathematical model or computational model that is inspired by the structure and/or functional aspects of biological neural networks. A neural network consists of an

an interconnected group of artificial neurons, and it processes information using a connectionist approach to computation.

- Recognition of a type of a mushroom (edible or poisonous).
- Mushroom's picture analysis for gathering its information.
- Print list of possible mushrooms with option to see their details.
- Updating data of mushroom.







- Energy consumption (pictures).
- Recognize as much objects parameters as possible (from the picture)
[some parameters can be added only by user, e.g. odor]
- Achieve neural network's high effectiveness.

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- Perform tests
- Implement image recognition
- Release of an application on a mobile device

04.02.2011 Final release