Neural Networks in Europe  

**Contact:**

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The division of Neural Computation, University of Bonn, has over 15 years of experience in research and development of neural networks and computational learning.

The division has been, or is partner or coordinator in several national and international research projects on neural networks, neural learning techniques and application of neural methods.

The division was the German managing node within the EU funded Network of Excellence in Neural Networks: NEuroNet  
[www.kcl.ac.uk/neuronet](http://www.kcl.ac.uk/neuronet) and  
[www.nero.uni-bonn.de/neuronet](http://www.nero.uni-bonn.de/neuronet)

Today we are part of the steering committee of the EU funded Network of Excellence:  
Neuro-IT.net (2002-2006)  
[www.neuro-it.net](http://www.neuro-it.net)

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**Proposal:**

Coordination Action (CA) within IST FET Open  
**Name:** Neural Networks in Europe: NEuroNet³  
**Duration:** 3 years  
**Call:** FP6-2002-IST-C  
**Deadline:** 20 September 2005  
**Size:** approx. 20 Partners (5 steering committee + 15 partners)  
**Estimated Budget:** total of 700K€

**Objectives:**

The main objective of NEuroNet³ is to strengthen the European Neural Network research community by fostering the cooperation between the European research groups, the European R&D institutions, and the European industry that are working with technical neural networks.

This coordination action is dedicated to enhance the communication between research communities from all EU Member States, the Associated candidate countries and the countries listed in the FP6 INCO target list.

NeuroNet³ shall support existing neural network conferences, support or even organise workshops and will organise the exchange of research personnel within the European Neural Network community. In addition, NeuroNet³ will formulate a position paper for the forthcoming decade of European Neural Network research.

The second objective is to enhance the cooperation between Neural Network research and related research fields. (Computational Intelligence and Learning, Neuro-IT, Machine Learning, Neuroinformatics, Fuzzy Technologies, Evolutionary Algorithms, Artificial Intelligence, Cognitive Science, Artificial Life, …).

NEuropNet³ aims to enhance the cooperation between existing and future national funding initiatives and the existing or future EU funding initiatives in the field of Neural Networks.
Structure:
NEuroNet³ is organised in five workpackages,
Each workpackage has approx 5 members/partners and one
workpackage leader.
The steering committee of NEuroNet³ is build by the five
workpackage leaders.
NEuroNet³ will thus have approx. 20 partners.

In addition to the primary NEuroNet³ partners, a lot of further
research groups, institutions, SMEs, research divisions within
industry, organisations, and individuals can be enlisted as:
Associated Partners to NEuroNet³.

The content of the workpackages are directly aligned to the project
objectives.
1. The position paper, compiled by the NEuroNet³ members:
   European Neural Network research from today till 2020,
   A Roadmap for the next decade of NN research.
2. Conferences, workshops, meetings of expert groups:
   NEuroNet³ plans to support existing European neural
   network conferences and organise workshops.
   It is planned to support up to 20 conference grants per year for
   students or young scientist with 500€ each.
3. Exchange of scientific personnel among the NEuroNet³
   enlisted partners (incl. associated partners).
   It is planned to exchange up to 4 persons for 3 months, with a
   maximum grant of 5000€ per exchange.
4. Exchange and dissemination of good practice in education,
   R&D and industrial applications. It is planned to organise
   expert groups as future advisory for NN users and teachers.
5. Cooperation between Neural Networks and related research
   fields (e.g. NoEs, research projects, …) and
   a further step towards an enhanced integration of national and
   European Neural Network research funding initiatives.