2 postdoc positions in Machine Learning (1 year, renewable up to 3 years)
Institution: RIST – Romanian Institute of Science and Technology, Cluj-Napoca
Keywords: Deep Learning, Reinforcement Learning, Stochastic Optimization, Optimization over Manifolds,
Information Geometry, Riemannian Geometry

Application deadline: 30 July 2017 (applicants are encouraged to apply earlier)
Salary: around 2190 euro net

Official announcement: http://rist.ro/en/details/news/postdoc-positions-in-deep-learning-and-machine-learning.html
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Dear colleagues,

the Romanian Institute of Science and Technology (RIST) has an opening for 2 postdoc positions, in the
context of the DeepRiemann project "Riemannian Optimization Methods for Deep Learning", funded by European
structural funds through the Competitiveness Operational Program (POC 2014-2020). The appointments will be
for 1 year, with possible extensions up to 3 years.

The DeepRiemann project aims at the design and analysis of novel training algorithms for Neural Networks in
Deep Learning, by applying notions of Riemannian optimization and differential geometry. The task of the

training a Neural Network is studied by employing tools from Optimization over Manifolds and Information
Geometry, by casting the learning process to an optimization problem defined over a statistical manifold,
i.e., a set of probability distributions. The project is highly interdisciplinary, with competences spanning
from Machine Learning to Optimization, Deep Learning, Statistics, and Differential Geometry. The objectives
of the project are multiple and include both theoretical and applied research, together with industrial
activities oriented to transfer knowledge, from the institute to a startup or spin-off of the research
group.

The positions will be part of the new Machine Learning and Optimization group
http://luigimalago.it/group.html, which performs research at the intersection of Machine Learning, Stochastic
Optimization, Deep Learning, and Optimization over Manifolds, from the unifying perspective of Information
Geometry. The group is one of two newly-formed groups in Machine Learning at RIST, where about 20 new
postdoctoral research associates and research software developers will be hired by 2018.

The official job announcement can be seen here:
http://rist.ro/en/details/news/postdoc-positions-in-deep-learning-and-machine-learning.html

Informal inquiries can be sent to Dr. Luigi Malagò <malago@rist.ro>,
principal investigator of the DeepRiemann project.

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