

Subject: 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: 20 October 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-machi>

ne-learning.html

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

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