

**** Postdoc position in Geometric Methods for Deep and Reinforcement Learning at RIST ****

Subject: Postdoc position in Machine Learning (1 year, renewable up to 2.5 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: 06 May 2018 (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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The Romanian Institute of Science and Technology (RIST) has an opening for a postdoc position, 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 2.5 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 Malago`
<malago@rist.ro>,
principal investigator of the DeepRiemann project.

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