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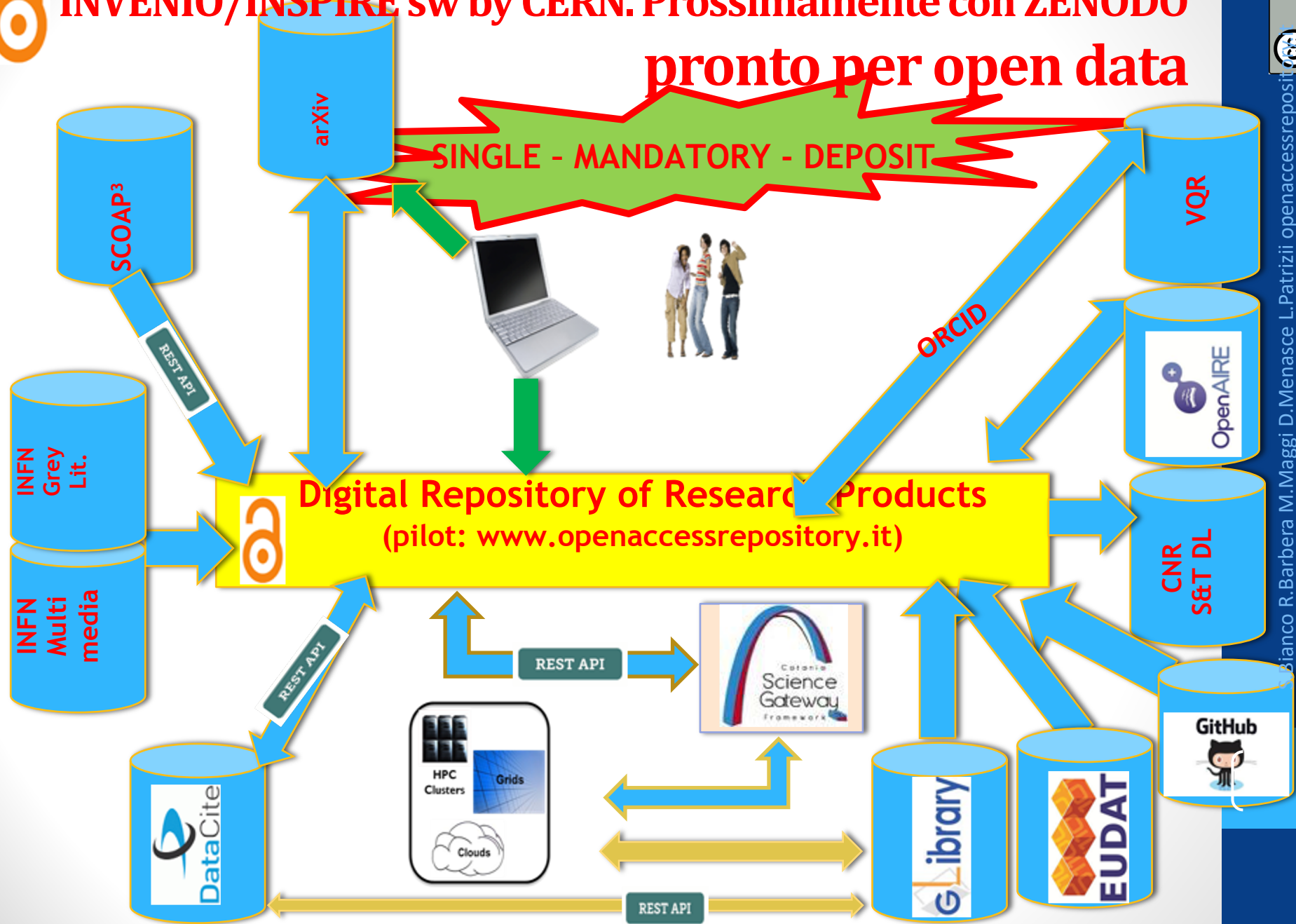
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This record contains the daily update summary plots of the data of the CovidStat project. CovidStat is a project carried out by the CovidStat Working Group at INFN, whose creation was promoted within the Italian National Institute of Nuclear Physics with the aim of making a statistical analysis...

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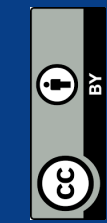
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Author's Accepted Manuscript

A new approach in modeling the behavior of RPC detectors

L. Benussi^a, S. Bianco^a, S. Colafranceschi^{a,b,c,1}, F.L. Fabbri^a, M. Giardoni^a, L. Passamonti^a, D. Piccolo^a, D. Pierluigi^a, A. Russo^a, G. Saviano^{a,b}, S. Buontempo^d, A. Cimmino^{d,e}, M. de Gruttola^{d,e}, F. Fabozzi^d, A.O.M. Iorio^{d,e}, L. Lista^d, P. Paol D. Pagano^f, S.P. Ratti^f, A. Vicini^f, P. Vitulo^f, C. Viviani^f, A. Sha

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Abstract

The behavior of RPC detectors is highly sensitive to environmental variables. A novel approach of RPC detectors in a variety of experimental conditions. The algorithm, based on Artificial Neural Network, has been developed and tested on the CMS RPC gas gain monitoring system during commissioning.

<http://arxiv.org/abs/1012.5508v1>

Key words: RPC, CMS, Neural Network, muon detectors, HEP

[physics.ins-det] 26 Dec 2010



A new approach in modeling the behavior of RPC detectors

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ABSTRACT

The behavior of RPC detectors is highly sensitive to environmental variables. A novel approach is presented to model the behavior of RPC detectors in a variety of experimental conditions. The algorithm, based on Artificial Neural Networks, has been developed and tested on the CMS RPC gas gain monitoring system during commissioning.

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1. Introduction

Resistive Plate Chamber (RPC) detectors [1] are widely used in HEP experiments for muon detection and triggering at high-energy, high-luminosity hadron colliders [2,3], in astroparticle physics experiments for the detection of extended air showers [4], as well as in medical and imaging applications [5]. At the LHC, the muon system of the CMS experiment [6] relies on drift tubes, cathode strip chambers and RPCs [7].

In this paper a new approach is proposed to model the behavior of RPC detectors, which is highly sensitive to environmental variables. The algorithm, based on Artificial Neural Networks (ANN), allows one to model the behavior of RPC detectors in a variety of experimental conditions. The ANN is trained using a set of experimental data. The ANN is able to provide a prediction of the gas gain monitoring system in a variety of experimental conditions. The ANN is trained using a set of experimental data. The ANN is able to provide a prediction of the gas gain monitoring system in a variety of experimental conditions. The ANN is trained using a set of experimental data. The ANN is able to provide a prediction of the gas gain monitoring system in a variety of experimental conditions.

The data for this study have been collected utilizing the gas gain monitoring (GGM) system [9–11] of the CMS RPC muon detector during the commissioning with cosmic rays in the ISR test area at CERN.

The GGM system is composed of the same type of RPC used in the CMS detector (2 mm-thick Bakelite gaps) but of smaller size (50 × 50 cm²). Twelve gaps are arranged in a stack. The trigger is provided by four out of 12 gaps of the stack, while the remaining eight gaps are used to monitor the working point by means of a secondary telescope detector. The data for this study have been collected utilizing the gas gain monitoring (GGM) system [9–11] of the CMS RPC muon detector during the commissioning with cosmic rays in the ISR test area at CERN. The GGM system is composed of the same type of RPC used in the CMS detector (2 mm-thick Bakelite gaps) but of smaller size (50 × 50 cm²). Twelve gaps are arranged in a stack. The trigger is provided by four out of 12 gaps of the stack, while the remaining eight gaps are used to monitor the working point by means of a secondary telescope detector. The data for this study have been collected utilizing the gas gain monitoring (GGM) system [9–11] of the CMS RPC muon detector during the commissioning with cosmic rays in the ISR test area at CERN.

2. The Artificial Neural Network simulation code

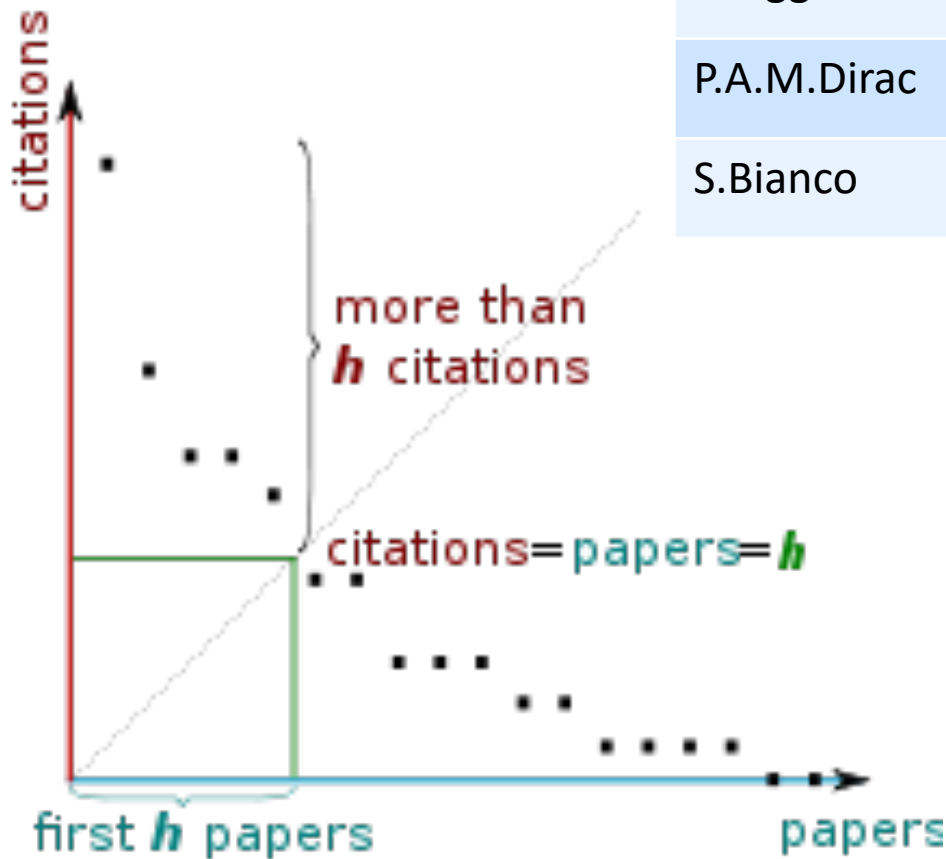
An Artificial Neural Network (ANN) is an information processing paradigm that is inspired by the way biological nervous systems, such as the brain, process information [12]. The most

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