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Leveraging Transfer Learning for Astronomical Image Analysis

Thursday, 11 July 2024 15:32 (27 minutes)

This presentation explores some applications of transfer learning in astronomical image analysis, focusing on the usage of a pretrained network (EfficientNet) as a feature extractor. We discuss methods for identifying active galactic nuclei, extracting physical parameters, and detecting anomalies in time series data. Additionally, we present some potential future applications, demonstrating the versatility of this approach, even without a training phase.

Primary author: Dr CAVUOTI, Stefano (INAF - Astronomical Observatory of Capodimonte Napoli)

Co-authors: Dr DE CICCIO, Demetra (University of Napoli “Federico II”); Mr DOORENBOS, Lars (AIMI, ARTORG Center, University of Bern); Mr SASANELLI, Gianluca (University of Napoli “Federico II”); Dr TORBAN-IUK, Olena (University of Bologna); Prof. BRESCIA, Massimo (University of Napoli “Federico II”); Prof. LONGO, Giuseppe (University of Napoli “Federico II”); Dr MÁRQUEZ-NEILA, Pablo (AIMI, ARTORG Center, University of Bern); Prof. PAOLILLO, Maurizio (University of Napoli “Federico II”); Prof. SZNITMAN, Raphael (AIMI, ARTORG Center, University of Bern); Dr TORTORA, Crescenzo (INAF - Astronomical Observatory of Capodimonte Napoli)

Presenter: Dr CAVUOTI, Stefano (INAF - Astronomical Observatory of Capodimonte Napoli)

Session Classification: Cosmic Insights from Big Data: How Machine Learning is Decoding the Universe

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