

Second ASTERICS-OBELICS Workshop



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GammaLearn, building a deep learning foundation for the Cherenkov Telescope Array - Luca Antiga, CEO, Orobix

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The advancements in artificial intelligence and deep learning occurred over the last few years have opened new avenues for building next generation data analysis pipelines. The GammaLearn project, kicked off in September 2017, aims to leverage these methodologies to address event discrimination as well as energy and direction estimation for the Cherenkov Telescope Array. In this talk I will provide an overview of the approaches that will be put into action, along with examples of lessons learnt from prior experiences on manufacturing and medical imaging applications. The talk will elucidate the ongoing activities in the GammaLearn project, the unique challenges posed by the analysis of IACT data and the new opportunities created by the possibility of pushing data analysis at the edge.

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