



MACHINE LEARNING AND COMPUTER VISION IN HELIOPHYSICS 2025

April 07-09, 2025, Sofia, Bulgaria (hybrid)

<https://mch25.astro.bas.bg>

TOPICS TO BE COVERED:

- **Computer Vision and Machine Learning applications in heliophysics, including:**
 - Solar magnetism
 - Solar activity (flares, CMEs, particles)
 - Solar wind
 - Space weather and space climate
 - Heliospheric radio emissions
- **Computer Vision and Machine Learning techniques and packages**
- **Explainable Machine Learning and Physics-informed networks**
- **R2O/O2R augmented by AI/CV**
- **Research tools and libraries for CV/ML**

SCIENTIFIC ORGANIZATIONAL COMMITTEE:

Jorge Amaya (European Space Agency)

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