

# Regret Bounds for Learning State Representations in Reinforcement Learning

R. Ortner<sup>1</sup>   M. Pirotta<sup>2</sup>   A. Lazaric<sup>2</sup>   R. Fruit<sup>3</sup>   O. Maillard<sup>3</sup>

<sup>1</sup>Montanuniversität Leoben

<sup>2</sup>Facebook AI Research

<sup>3</sup>Sequel Team – INRIA Lille

Coming Soon