

**Title:** MIRSVM: Multi-Instance Support Vector Machine with Bag Representatives

**Author names and affiliations:** Gabriella Melki<sup>1</sup>, Alberto Cano<sup>1</sup>, Sebastian Ventura<sup>2,3</sup>

<sup>1</sup> Department of Computer Science, Virginia Commonwealth University, 401 W. Main St., Richmond, VA, 23284, USA.

<sup>2</sup> Department of Computer Science and Numerical Analysis, University of Cordoba, Campus Universitario de Rabanales, "Albert Einstein" building, 3rd floor, 14071, Spain.

<sup>3</sup> Faculty of Computing and Information Technology, King Abdulaziz University, Jeddah, Saudi Arabia.

**Corresponding author:** Alberto Cano (acano@vcu.edu)