



## IEEE Open Journal of Control Systems (OJCS)

### Special Section on “Intersection on Machine Learning with Control”

#### **Scope:**

Unprecedented technological advances have fueled the creation of devices that can collect, generate, store, and transfer large amounts of data. This massive data outpour is profoundly changing the way in which complex engineering problems are solved, calling for the conception of new interdisciplinary tools at the intersection of machine learning, dynamic systems and control, and optimization. While the repurposing of control theories building on new Machine Learning methods can be highly successful, Dynamic Systems and Control can greatly contribute to analyze and devise novel adaptive, safety-critical controllers with performance guarantees. This special section aims to contribute to this growing area of interest. Prospective authors are invited to submit original contributions on related topics including, but are not limited to, the following:

- Data-driven optimization and control for dynamical systems
- Safe reinforcement learning and safe adaptive control
- Bridging model-based and learning-based control systems
- Distributed learning over distributed systems
- Reinforcement learning and statistical learning for dynamical and control systems
- Machine learning for dimensionality reduction and system identification
- Emerging applications of learning-based control

#### **Special Section Schedule:**

- **Submission window:** 1 November -- 31 December 2021
- **Final notification of regular papers:** 19 weeks after initial submission
- **Final manuscript submission:** 21 weeks after initial submission
- **Manuscript online publication:** 23 weeks after initial submission

See <http://ieeecss.org/publication/ojcs/ojcs-article-types#turnaround> for expected turnaround times.

**Note:** *This will be a recurring special section.* Until further notice, a new submission window will open at least once a year. Please visit <http://ieeecss.org/publication/ojcs/special-sections> for updated information.

**Submission Site:** <https://css.paperplaza.net/>

**About IEEE Open Journal of Control Systems:** IEEE OJCS is a new publication of the IEEE Control Systems Society, whose mission is (i) to promote open access to all control systems research and education publications, including software, and data; (ii) to publish **high-quality** papers **quickly**. We aim for a rapid peer review process with a publication time frame of 15 weeks for most accepted papers. For more detailed information, please visit: <http://ieeecss.org/publication/open-journal-control-systems>

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