It is our great pleasure to announce an open call for a Machine Learning Journal special issue on Inductive Logic Programming. Accepted papers will be part of the journal track of ILP 2020 and will be presented at the conference, which will be held in Athens, Greece, Sept. 7-9 2020 (tentative dates).

Authors are invited to submit novel, high-quality work that has neither appeared in, nor is under consideration for publication by other journals or conferences. The editorial team will be aiming for a turn-around time of 10-12 weeks for most submissions.

The journal track has two cut-off dates: 10 Oct 2019 and 10 Feb 2020.

We solicit submissions in all areas of learning in logic and multi-relational data mining. Areas of interest include, but are not limited to:

- Theory of ILP, foundations of logical & relational learning, computational learning theory.
- Learning in various logical representations and formalisms, such as logic programming & answer set programming, first-order & higher-order logic, description logic & ontologies.
- Statistical relational learning, including structure/parameter learning for probabilistic logic languages, relational probabilistic graphical models, kernel-based methods, neural-symbolic learning.
- Meta-interpretative learning & predicate invention.
- Semi-supervised & unsupervised relational learning.
- Methods for scaling-up ILP, parallel & distributed relational learning.
- Incremental & online relational learning, learning from data streams.
- ILP applications.

All papers will be reviewed following standard reviewing procedures for Machine Learning.

Papers must be prepared in accordance to the Journal guidelines:
A full range of general questions about submissions to Springer journals can be found here:
https://www.springer.com/gp/authors-editors/journal-author

Manuscripts must be submitted to:
http://MACH.edmgr.com

An article is submitted to this special issue by choosing "S.I. ILP 2020" as the article type. Articles should preferably be no longer than 20 pages. Submissions exceeding this length will not be given priority during reviews and will be under review for a longer period.

Important Dates:
Two cut-off dates: 10 October 2019, 10 February 2020.

The Special Issue Guest Editors:
Nikos Katzouris, National Center for Scientific Research "Demokritos"
Alexander Artikis, University of Piraeus & National Center for Scientific Research "Demokritos"