Submission and usage statistics for the cs.SY and math.OC categories of arXiv

This document provides some recent statistics on the submissions to the cs.SY (computer science, Systems and Control) and math.OC (mathematics, Optimization and Control) categories of the arXiv. The category math.OC was established in 1999, while the cs.SY category is relatively young, created in 2010.

The month-by-month distribution of the submissions to the two categories from Nov 2013 through Oct 2014 is depicted in Figure 1. As shown, the number of submission has been fairly stable throughout 2014, up to seasonal variations.
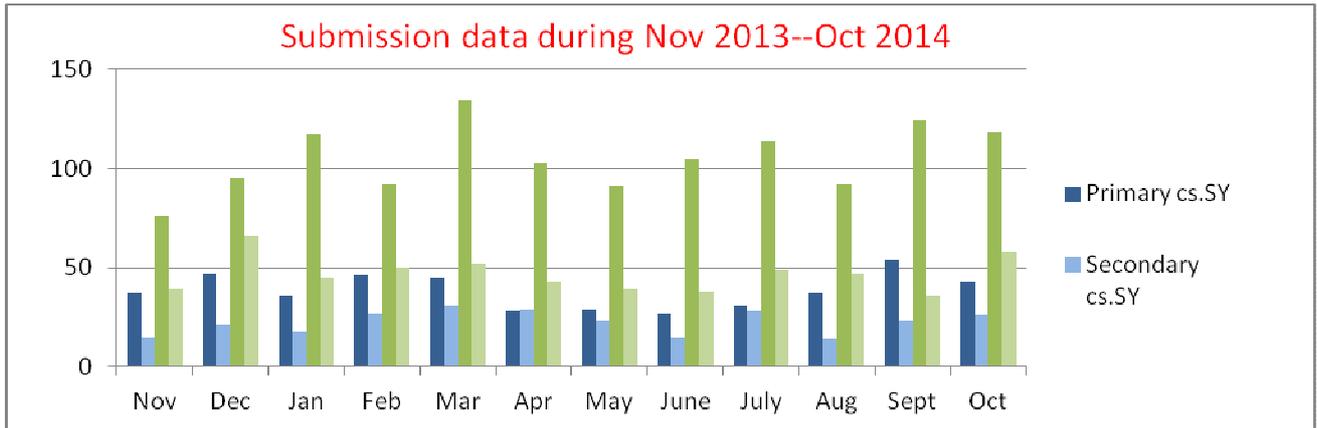

Figure 1: submissions to math.OC and cs.SY

To have some analysis of the growing interest for arXiv within the research community in systems and control, some statistics concerning the submissions over the last few years have been gathered, see Figure 2 (note that the number of submissions for 2014 is only through Oct, 2014). It is apparent from the figure that the number of submissions to math.OC has been steadily growing at a remarkable rate over the last few years; and that since its inception the cs.SY has been following a similar trend. The data reported in the figure match the moderators' impression about the increasing awareness of the existence and usefulness of the arXiv within the systems and control community.
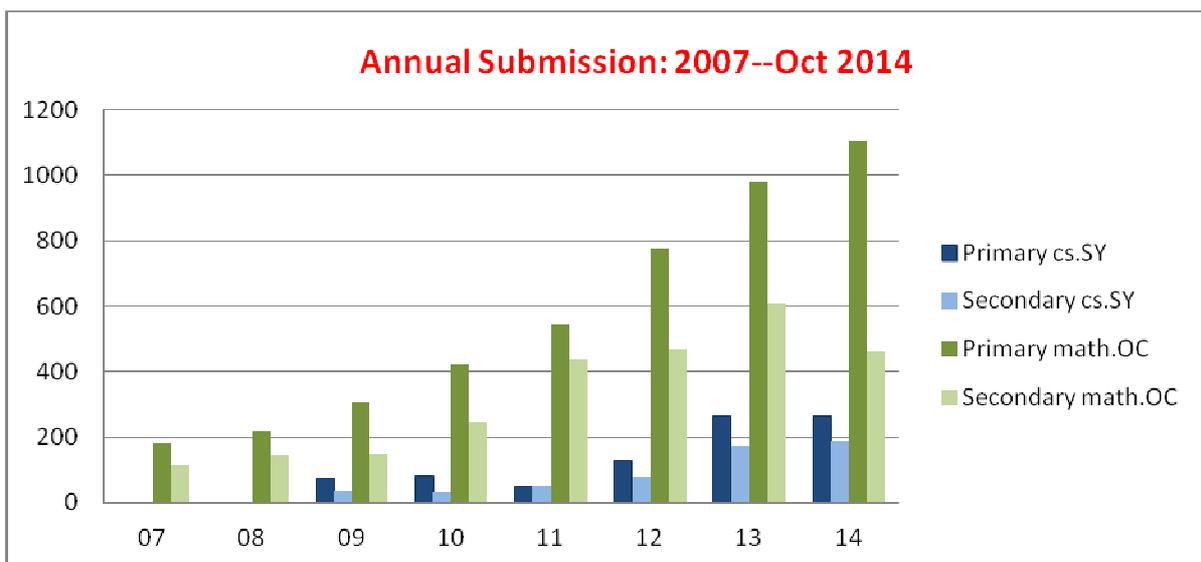

Figure 2: submission data for math.OC and cs.SY from 2007 to 2014.

Concerning usage, the chart in Figure 3 shows the stats of monthly downloads (with robots and rapid repeats removed). As shown, there is a heavy usage of papers in the arXiv sites.
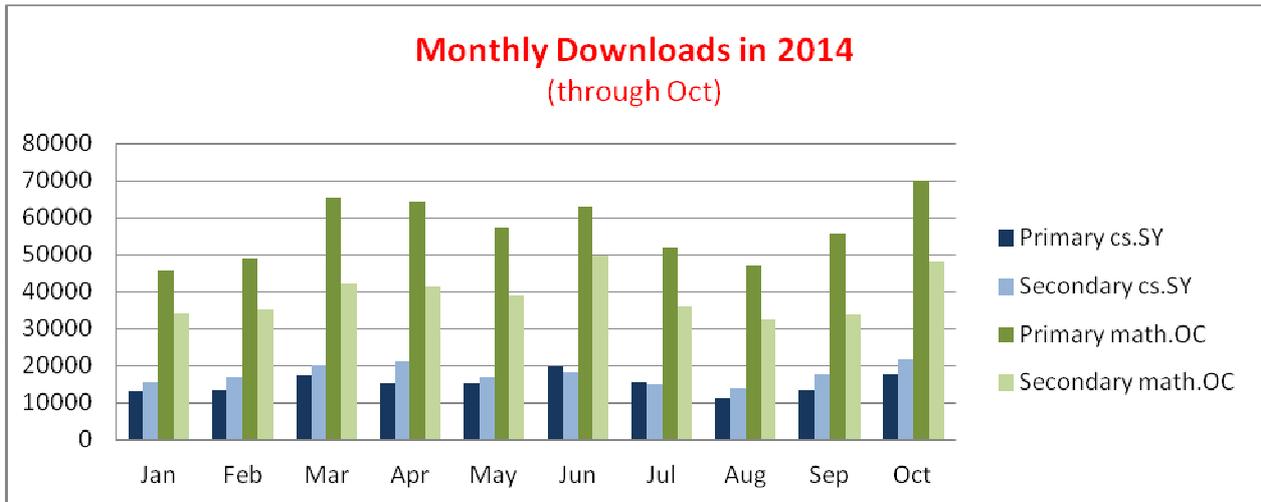

Figure 3: usage data for the math.OC and cs.SY categories.

Finally, Figure 4 shows the annual usage of the papers in cs.SY and math.OC in 2013 and 2014 (through Oct.)
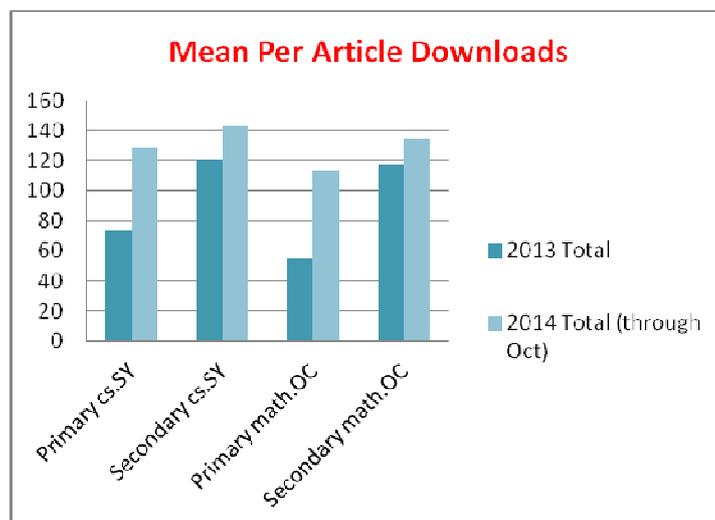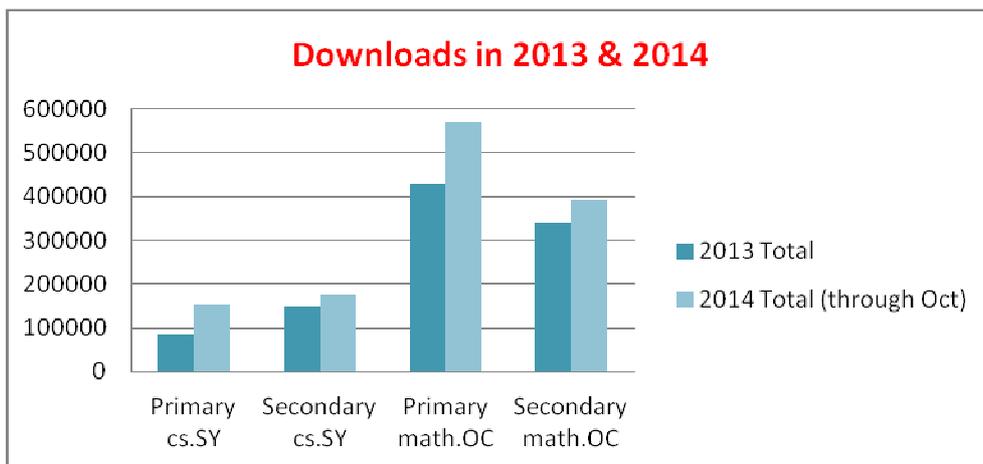

Figure 4: total downloads (top) and mean per article downloads (bottom) for the math.OC and cs.SY categories.