Iowa Colloquium on Information, Complexity, and Logic

February 2018 Meeting

Location: Drake University in Collier-Scripps Hall 235

[Map of Drake University](#)   [Parking Map](#)

Time: Thursday, February 22 at 3:00 PM

Speaker: Peter Dixon (Iowa State University)

Title: Time Vs Space and Connections to Derandomization

Abstract: A classical result of Hopcroft, Paul and Valiant shows that every Turing machine that runs in time $O(t)$ can be simulated using $O(t/\log t)$ space. We discuss about extending this result to randomized computations and an application to derandomization of probabilistic time-bounded computations.

No background on complexity theory is assumed for the talk.

Parking Information: There are a limited number of guest parking passes available. Please contact Adam Case (adam.case@drake.edu) to request a pass. There is also free parking along 24th Street on the east side of Lot 1, and two hour parking is available along 25th Street on the west side of Lot 1.

To get from Lot 1 to Collier-Scripps Hall: Walk west on Carpenter Avenue and down the painted street. Take a right just after Jewett Residence Hall and another right just after Medbury Hall. From here, Olin Hall is on the left and Collier-Scripps Hall is on the right.