MCS 548 – Mathematical Theory of Artificial Intelligence
Fall 2025
Paper Presentations

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Presentations of papers for this class will be during the days 11/17, 11/19, 11/21, 12/1, 12/3, 12/5. Please list the presentation dates by order of preference, and email me this ordering by 11/7, *together with your choice of paper to present* (the paper choice will be subject to my approval). I will assign presentation slots in the order I receive requests. Presentations are to be related to your project choice and must be done individually. Students working in groups will present *different* papers[1] (related to the same project), and their presentation grade will be assigned based only on their own presentation.

Presentations will be done in class and will begin strictly on-time. Presentations will be 20 minutes each. 5 minutes will be allotted for questions. You must have a deeper understanding of the paper than you are able to present, and this will be elucidated in the question period. Many of the possible papers are complicated, so you will not be able to present them in full, or even in much detail. Some papers are so difficult that you may not be able to understand them fully, and that is okay too – the more difficult the paper, the more leeway you will have. Nonetheless, your goal will be to 1) clearly explain the problem being solved, 2) explain the state of the art before the paper, 3) explain what advance the paper made, 4) in as much detail as time allows, give an overview of how the result was obtained, and 5) be prepared to answer questions from your audience. You will not be responsible for knowing any advances that were made after the appearance of the paper you are presenting

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[1]Or different parts of one longer paper, subject to approval.