

Department: Mathematics and Computer Sciences

Division: Computer Sciences

Level and Major: Graduate

Course Title: Advanced Algorithms

Number of Credits: 3

Prerequisite:

Lecturer:

Course Description: Hard Problems, Approximation Algorithms, Online Algorithms, Geometric Algorithms

Course Goals and Objectives:

Course Topics:

- Insert the additive algorithms: insertion sort, find a convex surface (surface additive), triangulation monotone polygons
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- Plane –Sweep Algorithm Finding the intersections of line segments Finding convex hulls: insertion hull revisited Contour of: union: of Rectangles

Reading Resources:

Evaluation: