

Notes for Matroid

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Preface

I think it is a good start for my Ph.D. life.

About this book

Description of chapters

The concept Matroid provides the information about the linear indendent. In linear algebra, if one is familiar with the linear spanning, there are many examples about the extension of a subspace. If we have some candidate vectors for basis like v_1, v_2, \dots, v_n , we want to find a maximum indendent set. For the vector v_1 , there could be v_2, v_3 who are indendent with it; but if a new vector v_4 comming, it becomes dependent. If we use the set of indices of vectors to describe it, we have: $\{1, 2, 3\}$ is of some indendent property and $\{1, 2, 3, 4\}$ is of dependent. Matroid Theory use this idea.

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