# Deyi Wang

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## Education Background

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| **University of California, Los Angeles** | **Sep. 2022 - Present** |

Fall quarter in 2022: Matrix Analysis (A+), Linear Programming (A)

Winter quarter in 2023: Nonlinear Dynamic Systems (A+), Convex Optimization (A+)

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| **Tongji University** | **GPA** 4.29/5.0, **Grade** 87.94/100 |
| College of Electronics and Information Engineering, *Bachelor of Engineering in Automation* | **Sep. 2017 - Jun.2021** |
| School of Mathematical Sciences, *Mathematics and Applied Mathematics (Minor)* | **Sep. 2019 - Jun.2021** |

## Work Experience

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| **Shanghai Research Institute for Intelligent Autonomous Systems, Tongji University** | **Jul.2021 - Jul.2022** |

*Research Assistant supervised by Prof. Xiang Li*

## Research Experience

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| **The Research on Minimum Vertex Cover Based on Asymmetric Game Theory** | **Nov.2021 - Nov.2022** |

*Supervisor: Prof. Xiang Li*

- Mainly focuses on the minimum vertex cover problem in the aspect of game theory.

- Put forward a theorem interpreting the relationship between the SNE (strict Nash equilibrium) state and the MVC (minimum vertex cover) state in the weighted graph, and restricted the sufficient condition of $\{V_{MWVC}\} \subseteq \{V_{SNE}\} \subseteq \{V_{WVC}\}$ from $\Delta A/\Delta B > 4\lambda_A\lambda_B$ to $\Delta A/\Delta B > 4\lambda_A\lambda_B k_{max}$.

- The corresponding paper *"A Maximum Degree related Condition to Asymmetric Game in Weighted Vertex Cover Networks"* was accepted by IFAC WC 2023.

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| **A Social Media Users Classification Algorithm Based on Community Detection** | **May.2019 - May.2021** |

*Supervisor: Prof. Qi Kang*

- Mainly about the local community detection problem in the complex network.

- Put forward n-order degree central nodes conception and improved the seed nodes choosing method.

- The corresponding paper was accepted by 《微型电脑应用》 [1].

## Publications

[1] 王得翊, 焦澳琛, 陈音拿, 安静, 康琦, 汪镭. *基于多阶局部度数峰值点的局部社区发现算法*[J]. 微型电脑应用, 2021, 37(06): 1-4.