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Data Science Study, Research, and Applications

Dr. Ching-yu Huang 黃清郁 博士
School of Computer Science and Technology, Kean University, Union, NJ

March 13 2021, Saturday, 1~ 2:30 PM

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Abstract

Data science has become a hot area in recent years and related jobs continue to be in high demand in all industries. It already widely impacts our daily life ranging from shopping, entertainment, transportation, healthcare, finance, security, weather forecast, to social media and internet visits. In this talk, Dr. Huang will give an overview of data science - an interdisciplinary field that combines programming, algorithms, database, data mining, machine learning, statistics, data visualization, and domain knowledge. In order to prepare for a career in data science, Dr. Huang will discuss what courses and skills students should learn at school and give some suggestions based on his teaching experiences. He will also present the current popular research areas and show some of his research results and student projects. Applications and several real stories in data science will be discussed and future trends will be covered to conclude his talk.



Dr. Ching-yu (Austin) Huang 黃清郁 博士 is an Assistant Professor with School of Computer Science and Technology, Kean University, Union, NJ. Dr. Huang has a strong passion for teaching and researching. He received a Teaching Award, Excellent Performance in Computer Science Education, 3rd Annual NJ/NY CS Teaching Awards, Newark, NJ, June 14, 2018, and Faculty Research Mentor of the Year at Kean University, April 24, 2019. He is a Co-Principle Investigator for NSF Grant, “Pathway to Success for Students and Faculty in Computing,” awarded amount: \$1.68M, 2019-

2024. Prior to joined Kean University, Dr. Huang has gained great exposure in the industries of Finance, Telecommunications and Biotechnology such as Moody’s, University of Medicine & Dentistry of New Jersey (UMDNJ/Rutgers), Orchid Biosciences, and AT&T. His areas of expertise and research include - bioinformatics, data mining, image processing, pattern recognition, computer application design, web development, programming language, computer graphics, database, system administration, and E-learning.

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