ZIHAO LI

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Education

UCAS(University of Chinese Academy of Sciences) *Beijing, China*
M.S. in Aircraft Design *Sep.2018 - Present*
• Supervisors: Wei Dang

North University of China *Shanxi, China*
B.S. in Aircraft Manufacturing Engineering *Sep.2014 - Jul.2018*

Academic Experience

Technology and Engineering Center for Space Utilization (CSU), CAS *Beijing, China*
Reliability & Product Assurance Center, visiting student *Aug. 2017*

Xian Jiaotong University - School of Aerospace Engineering *Xian, China*
Excellent College Students Summer School, visiting student *Jul. 2017*

Nationl Space Science Center (NSSC), CAS *Beijing, China*
"One Space, One Dream" Excellent College Students Summer School, visiting student *Jul. 2017*

Internship Experience

Aviation Industry Corporation of China (AVIC) - Xian Aircraft industry (Group) Company, LTD *Xian, China*
Graduation Practice, Aircraft Design Assistance Engineer *Sep. 2017*

Guoke Saisi Beijing Tech.co, Ltd. *Beijing, China*
Algorithm Engineer in Data Department *Dec. 2017 - Aug. 2018*

Publications & Patents

[1] **Li Zihao**. Electronic component data management system and method based on blockchain. China Patent Application CN109450638A, March 08, 2019.

[2] **Li Zihao**. Alternative selection system and alternative selection method for electronic components. China Patent Application CN109284420A, January 29, 2019.

[3] **Li Zihao**. Form recognition method, recognition system and computer device. China Patent Application CN109086714A, Dec 25, 2018.

Projects and Compotetition Experience

Sentiment Analysis *Project of Deep Learning*
Team Member *Jun.2019*
Constructing Transformer, text-CNN, and BiGRU+Attention models to analyze the sentiment of movie reviews.

Repair strategy and Invulnerability Research of Complex Networks *MCM Competition*
Team Leader *May.2019*
Providing alternative nodes geographical location information and connection methods when networks are damaged seriously.

Object Detection and Classification *Project of PRML*

ACCOMPLISHED ALONE *May.2019*

Constructing YOLO-v3 and FPN networks to realize object detection and recognition.

Neural Machine Translation (Attention & Transformer) *Project of NLP*

ACCOMPLISHED ALONE *Nov.2018*

Using the Attention and the Transformer model to realize en2ch machine translation.

Personalized Matching Model of Packages for Telecom Users *CCF-BDCI Competition*

TEAM LEADER *Oct.2018*

Recommending personalized telecommunication packages based on XGBoost and wide & Deep network.

Image Recognition Application for Ultrasonic Images of Plastic Packaging IC *Undergraduate thesis*

ACCOMPLISHED ALONE *Aug.2018*

Applying image processing and machine learning models to segment and recognize the failure image of plastic components.

Plate-and-Ball Control System *Electronic Design Contest*

TEAM MEMBER *Aug.2017*

Using PID algorithm to get duty cycles of PWM, and control the tilt of plate to plan motion tracks of a ball.

Wind-Pendulum *Electronic Design Contest*

TEAM MEMBER *Jul.2017*

Designing a wind-pendulum, through controlling four blades' rotate speed to realize specific motion of wind-pendulum.

"Internent+" Based Subsidy Scheme Optimization of Ridesharing *MCM Competition*

TEAM LEADER *Sep.2016*

Optimizing subsidy and dispatch schemes of taxies, based on psychological model and fuzzy mathematics.

If you want to know more about above projects, please browse my Github(https://github.com/PrideLee).

Selected Honors & Awards

COMPETITION AWARDS

Oct.2017	**2nd Award,** National Undergraduate Electronic Design Contest	*Shanxi, China*
Aug.2017	**Excellence Award,** The 11th National College Student Mechanics Competition	*China*
Jan.2017	**Honorable Mention,** Mathematical Contest in Modeling	*International*
Nov.2016	**2nd Award,** Mathematical Contest in Modeling	*Shanxi, China*
Nov.2015	**First Prize,** The 7th National College Student Mathematical Competition	*China*

SCHOLARSHIP

Jan.2017	**First-Class,** Hubei Chamber of Commerce Encouragement Scholarship	*Top 5%*
Oct.2016	**First-Class,** Comprehensive Quality Scholarship	*Top 4%*
Oct, 2015	**First-Class,** National College Student Mathmatical Competition Scholarship	*Top 2%*

Skills

Programming: Python, C/C++, Matlab

Data Processing & Database: SPSS, Neo4j, MySQL

Computer-Aided Design and Modeling: AutoCAD, ProE, SolidWorks

SCM Development and Circuit Design: STM32F4, STC89C52RC, Altium Designer

Others: LINGO, Git, LaTeX

Language

Chinese	**Native,** Fluent	
English	**IELTS,** Preparing	