TANG Shuang

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EDUCATION

Southern University of Science and Technology (SUSTech)

Bachelor of Engineering in Communication Engineering

- GPA: 3.4/4.0
- IELTS: 6.5

WORK EXPERIENCE

Department of Electrical Engineering, SUSTech Research Assistant

- · Responsible for scientific research projects and assist in the management of research team;
- First author of '*Automatic Modeling Framework for Arc Fault Detection*', contributed to International Journal of Electrical Power & Energy Systems, under review

Hytera Communications Corporation Limited Overseas Marketing Engineer

- · Responsible for technical presentation and introduction;
- Developing solutions for the communications market in the South Asia region, involving a private network solution for the navy of a South Asian country;
- Working as the sole technical marketing engineer for a national technical solution in Sri Lanka, including a network construction solution for a Sri Lankan army;
- Provided technical support for projects with a cumulative project turnover of over *Four Million USD*.

RESERACH EXPERIENCE

Cheng Qingsha (Associate Professor) Research Group

- *01/2021-06/2021*, Participated in the project of "Fault Arc Detection based on Artificial Neural Network" as an independent principal, mastered data processing and neural networks knowledge, and applied binary differential evolutionary algorithms to optimize the selection process;
- 09/2019-12/2020, Engaged in the project of "Electrostatic State Modeling of Chip Devices based on Optimization Algorithms as an independent principal, and acquired models for device simulation and electrostatic protection;
- 03/2019-06/2019, Involved in the project of "Crawling and database creation of antenna design drawings and design data", and possessed the ability to write code in Java for the participation in projects.

COMPETITION EXPERIENCE

The 12th Guangdong University Students Entrepreneurship Competition07/2020"Challenge Cup - Youth Creation"07/2020

- > Competition Result: Gold Award
- > Award-winning Project: MixedCollab Remote Collaboration Solution
- The MixedCollab project is based on seven unique patents, integrating AR/MR and hybrid cloud computing, to provide a combination of soft-hard-cloud online collaboration solution;
- MixedCollab's office online collaboration solution includes online office collaboration software, AR/MR glasses hardware and cloud services;
- MixedCollab uses the latest display technology-Micro-LED, has an exclusive semi-split design to solve the current power consumption and performance issues of AR /MR devices, and facilitates interaction through a series of software patents;
- The combination of soft-hard-cloud can greatly improve the user viscosity, enhance the user experience.

03/2019 - 06/2021

08/2017 - 06/2021

11/2021 - present

07/2021 - 10/2021

THESIS

An Artificial Neural Network Using Wavelet Transform For Electric Arc Detection 01/2021 - 06/2021

- Supervisor: Cheng Qingsha (Associate Professor)
- **Research Objective:** To propose a machine learning model which can diagnose a current as either normal or arc fault with high accuracy;
- **Research Results:** The proposed machine learning modelling framework employing optimisation algorithms and signal processing with DWT has several notable advantages over previous methods for arc fault detection. Furthermore, it is found through validated cases that in the wavelet transform, the approximate coefficient has superior features than the detailed coefficient in some cases.

AWARDS & HONORS

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•	"Hong Yi Graduate" of Shude College, SUSTech	06/2021
•	Gold Award in The 12th Guangdong University Student Entrepreneurship	08/2020
	Competition "Challenge Cup -Youth Creation"	
•	University-level Third Prize in National University Student Organization and	06/2020
	Management Competition	
•	Bronze Award in The 11th Guangdong University Student Entrepreneurship	09/2018
	Competition "Challenge Cup -Youth Creation"	
•	Third Prize of Excellent Volunteer, SUSTech	09/2018
•	Outstanding Individual in Social Practice, SUSTech	05/2018
•	Merit Award of Freshman Scholarship, SUSTech	09/2017
EX	TRACURRICULAR ACTIVITIES	
•	Campus ambassador for the listed technology company "Hytera"	10/2020
•	SUSTech & Huawei Ascend AI cloud collaborative development and application	07/2020
	training camp	
•	Communication engineering project exchange at the University of British Columbia	08/2019
•	"4:30 Classroom" commonweal project (SUSTech), and volunteered to teach at	09/2018 - 12/2018
	Southern University of Science and Technology No2 Primary School	
•	The officer in the Student Union of Shude College, SUSTech.	09/2017 - 01/2018
SK	ILLS & HOBBIES	
•	Proficiency in data processing with MATLAB	
•	Proficiency in Python, Java programming	
•	Mastery of Web development languages: personal website: www.tangshuang2000.cn	
•	English academic paper writing skills and LaTex editing skills	
•	Good literature searching and reading skills	

• Hobbies: Ball Sports, Music Production, Guitar, and Traveling.