FANYOU WU

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EDUCATION

Purdue University	Jan 2018 - **Dec 2021**
Ph.D in Forestry	*Machine Learning Application in Forest Products*
University of Eastern Finland	Sep 2015 - Apr 2017
M.S. in Wood Material	
Nanjing Forestry University	Sep 2011 - Jun 2015
B.E in Wood Material	

INTERNSHIP

Envision Digital	Aug 2017 - Dec 2017
Machine Learning Engineer	

Develop machine learning solution for better predicting user demand of electricity.

SELECTED PUBLICATIONS

Wu, F., Gazo, R., Benes, B., & Haviarova, E. (2021). Deep BarkID - A Portable Tree Bark Identification System by Knowledge Distillation. European Journal of Forest Research. 🌲 [*link*]

Wu, F., Gazo, R., Haviarova, E., & Benes, B. (2021). Wood identification based on longitudinal section images by using deep learning. Wood Science and Technology, 55(2), 553-563. 🌲 [*link*]

Wu, F., Gazo, R., Haviarova, E., & Benes, B. (2019). Efficient Project Gradient Descent for Ensemble Adversarial Attack. IJCAJ workshop. 📷 [*link*]

Wu, F., & Kärenlampi, P.P. (2017). Phase Transition in A Growing Network. Journal of Complex Networks. [*link*]

Liu, Y., **Wu, F.**, Lyu, C., Liu, X., & Liu, Z. (2021). Behavior2vector: Embedding Users' Personalized Travel Behavior to Vector. IEEE Transactions on Intelligent Transportation Systems. 🚥 ✍️ [*link*]

Liu, Y., **Wu, F.**, Lyu, C., Liu, X., Liu, Z. & Ye, J. (2021). Learning to Reposition on an Online Taxi-hailing Platform. 🚥 📖 ✍️

* 🌲 Forestry | 📷 Computer Vision | 🚥 Transportation | 📖 Under Review | ✍️ Co-first Author

COMPETITIONS WITH CASH PRIZE

CVRP 2021 The 2nd Agriculture-Vision Prize Challenge	2021
2nd, 3000+1200 USD	[*link*]
Develop models for farmland prediction based on image segmentation models.	
NeurIPS 2020 Traffic4cast Competition	2020
2nd, 5000 USD	[*link*]
Develop models for traffic map movies prediction based on image segmentation models.	
KDD CUP 2020 Reinforcement Learning Competition Track	2020
1st in Reposition Track, 8000 USD	[*link*]
Develop vehicle repositioning models based on Deep-Q learning.	
IJCAI-19 Alibaba Adversarial AI Challenge-Competition	2019
1st in Traget Attack Track, 5000 USD	[*link*]
Develop adversarial attack methods based on a modification of Projection Gradients Descents.	
KDD CUP 2019 Regular Machine Learning Competition Track	2019
4th, 1000 USD	[*link*]
Develop transportation recommendation models based on tree ensemble and node embedding.	
Other Competitions	2017 − 2018
In total, more than 30000 USD	[*link*]
Develop competitions solution mainly based on classic data mining models.	