

Yongchao Dang  
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Communication Engineering  
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## Employment

### Postdoctoral Researcher

Postdoctoral Researcher  
Department of Information and Communications Engineering  
Aalto University  
1 Nov 2023 → present

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1 Nov 2023 → present

## Research outputs

### Graphic Neural Network based GPS Spoofing Detection for Cellular-Connected UAV swarm

Dang, Y., Karakoc, A. & Jäntti, R., 23 Jun 2023, *2023 IEEE 97th Vehicular Technology Conference, VTC 2023-Spring - Proceedings*. IEEE, p. 1-6 6 p. 10200557. (IEEE Vehicular Technology Conference).

### Sum Rate and Max-Min Rate for Cellular-Enabled UAV Swarm Networks

Yang, B., Dang, Y., Taleb, T., Shen, S. & Jiang, X., Jan 2023, In: *IEEE Transactions on Vehicular Technology*. 72, 1, p. 1073-1083 11 p.

### 3D Radio Map-based GPS spoofing Detection and Mitigation for Cellular-Connected UAVs

Dang, Y., Karakoc, A., Saba, N. & Jäntti, R., 2023, In: *IEEE Transactions on Machine Learning in Communications and Networking*. 1, 15 p.

### Machine Learning based GNSS Spoofing Detection and Mitigation for Cellular-Connected UAVs

Dang, Y., 2023, Aalto University. 181 p.

### Deep Ensemble Learning based GPS Spoofing Detection for Cellular-Connected UAVs

Dang, Y., Benzaid, C., Yang, B., Taleb, T. & Shen, Y., 15 Dec 2022, In: *IEEE Internet of Things Journal*. 9, 24, p. 25068-25085 18 p.

### Transfer Learning based GPS Spoofing Detection for Cellular-Connected UAVs

Dang, Y., Benzaid, C., Taleb, T., Yang, B. & Shen, Y., 19 Jul 2022, *2022 International Wireless Communications and Mobile Computing, IWCMC 2022*. IEEE, p. 629-634 6 p. (International Wireless Communications and Mobile Computing Conference).

### Deep Learning for GPS Spoofing Detection in Cellular-Enabled UAV Systems

Dang, Y., Benzaid, C., Yang, B. & Taleb, T., 10 Dec 2021, *Proceedings - 2021 International Conference on Networking and Network Applications, NaNA 2021*. IEEE, p. 501-506 6 p.

### GPS Spoofing Detector with Adaptive Trustable Residence Area for Cellular based-UAVs

Dang, Y., Benzaid, C., Shen, Y. & Taleb, T., Dec 2020, *2020 IEEE Global Communications Conference, GLOBECOM 2020 - Proceedings*. IEEE, p. 9348030. (IEEE Global Communications Conference).

## Projects

### **5GIDrones: 5G for Drone-based Vertical Applications**

Taleb, T. (Principal investigator), Abada, A. (Project Member), Shahbaztabar, D. (Project Member), Bekkouche, O. (Project Member), Manner, J. (Project Member), Dang, Y. (Project Member), Hireche, O. (Project Member), Rajasekaran, A. (Project Member), Hellaoui, H. (Project Member), Khennouche, H. (Project Member), Meles, M. (Project Member), Knuuttila, O. (Project Member) & Sehad, N. (Project Member)  
01/06/2019 → 30/11/2022

### **Cloudify-6G: 6G Data-driven Distributed Cloud and Communication System**

Jäntti, R. (Principal investigator) & Dang, Y. (Project Member)  
01/05/2023 → 30/04/2026

### **-: BF 5GDrones Taleb H2020 valmis**

Taleb, T. (Principal investigator), Dang, Y. (Project Member) & Nait Abbou, A. (Project Member)  
02/11/2015 → 28/03/2024

### **INSPIRE-5Gplus: Intelligent Security and Pervasive tRust for 5G and Beyond**

Taleb, T. (Principal investigator), Benzaid, C. (Project Member), Boukhalifa, M. (Project Member), Dang, Y. (Project Member), Farooqi, M. (Project Member) & Hireche, O. (Project Member)  
01/11/2019 → 31/10/2022

### **TERAWAY: Terahertz technology for ultra-broadband and ultra-wideband operation inside 5G networks with SDN management of network and radio resources**

Jäntti, R. (Principal investigator), Ruttik, K. (Project Member), Malm, N. (Project Member), Sheikh, M. (Project Member), Saba, N. (Project Member), Koskinen, K. (Project Member), Virrankoski, R. (Project Member), Dang, Y. (Project Member) & Mutafungwa, E. (Project Member)  
01/11/2019 → 31/08/2023