















- [7] Bor-Yaliniz, R. I., El-Keyi, A. and Yanikomeroglu, H. [2016], Efficient 3-D placement of an aerial base station in next generation cellular networks, in '2016 IEEE Int. Conf. Commun. (ICC)', pp. 1–5.
- [8] Diamond, S. and Boyd, S. [2016], 'CVXPY: A Python-embedded modeling language for convex optimization', *J. Machine Learning Research* **17**(83), 1–5.
- [9] Erdelj, M., Natalizio, E., Chowdhury, K. R. and Akyildiz, I. F. [2017], 'Help from the sky: Leveraging UAVs for disaster management', *IEEE Pervasive Computing* **16**(1), 24–32.
- [10] Grant, M. and Boyd, S. [2014], 'CVX: MATLAB software for disciplined convex programming, version 2.1', <http://cvxr.com/cvx>.
- [11] Gupta, L., Jain, R. and Vaszkun, G. [2016], 'Survey of important issues in UAV communication networks', *IEEE Commun. Surveys Tuts.* **18**(2), 1123–1152.
- [12] Hayajneh, A. M., Zaidi, S. A. R., McLernon, D. C., Renzo, M. D. and Ghogho, M. [2018], 'Performance analysis of UAV enabled disaster recovery networks: A stochastic geometric framework based on cluster processes', *IEEE Access* **6**, 26215–26230.
- [13] Lei, S., Wang, J., Chen, C. and Hou, Y. [2018], 'Mobile emergency generator pre-positioning and real-time allocation for resilient response to natural disasters', *IEEE Trans. Smart Grid* **9**(3), 2030–2041.
- [14] Liu, X. and Ansari, N. [2018], 'Resource allocation in UAV-assisted M2M communications for disaster rescue', *IEEE Wireless Commun. Lett.* pp. 1–1.
- [15] Liu, X., Li, Z., Zhao, N., Meng, W., Gui, G., Chen, Y. and Adachi, F. [2018], 'Transceiver design and multi-hop D2D for UAV IoT coverage in disasters', *IEEE Internet Things J.* pp. 1–1.
- [16] Lorincz, K. and et al. [2004], 'Sensor networks for emergency response: challenges and opportunities', *IEEE Pervasive Computing* **3**(4), 16–23.
- [17] Manoj, B. S. and Baker, A. H. [2007], 'Communication challenges in emergency response', *Commun. ACM* **50**(3), 51–53.
- [18] Mase, K. [2011], 'How to deliver your message from/to a disaster area', *IEEE Commun. Mag.* **49**(1), 52–57.
- [19] Mattingley, J. and Boyd, S. [2010], 'Real-time convex optimization in signal processing', *IEEE Signal Process. Mag.* **27**(3), 50–61.
- [20] Merwaday, A., Tuncer, A., Kumbhar, A. and Guvenc, I. [2016], 'Improved throughput coverage in natural disasters: Unmanned aerial base stations for public-safety communications', *IEEE Veh. Technol. Mag.* **11**(4), 53–60.
- [21] Mozaffari, M., Saad, W., Bennis, M. and Debbah, M. [2016], 'Efficient deployment of multiple unmanned aerial vehicles for optimal wireless coverage', *IEEE Commun. Lett.* **20**(8), 1647–1650.
- [22] Nguyen, M., Nguyen, L. D., Duong, T. Q. and Tuan, H. D. [2018], 'Real-time optimal resource allocation for embedded UAV communication systems', *IEEE Wireless Commun. Lett.* pp. 1–1.
- [23] Olsson, P., Kvarnström, J., Doherty, P., Burdakov, O. and Holmberg, K. [2010], Generating uav communication networks for monitoring and surveillance, in '2010 11th Int. Conf. Control Auto. Robotics Vision (ICARCV)', pp. 1070–1077.
- [24] Romer, K. and Mattern, F. [2004], 'The design space of wireless sensor networks', *IEEE Wireless Commun.* **11**(6), 54–61.
- [25] Schoenwald, D. A. [2000], 'AUVs: In space, air, water, and on the ground', *IEEE Control Systems* **20**(6), 15–18.
- [26] Shima, T. and Rasmussen, S. [2009], *UAV cooperative decision and control: challenges and practical approaches*, SIAM.
- [27] Vo, N., Duong, T. Q. and Guizani, M. [2015], Quality of sustainability optimization design for mobile Ad Hoc networks in disaster areas, in '2015 IEEE Global Commun. Conf. (GLOBECOM)', pp. 1–6.
- [28] Vo, N.-S., Masaracchia, A., Nguyen, L. D. and Huynh, B.-C. [2018], 'Natural disaster and environmental monitoring system for smart cities: Design and installation insights', *EAI Endorsed Trans. Industrial Networks and Intelligent Systems* **5**(16).
- [29] Wu, Q., Zeng, Y. and Zhang, R. [2018], 'Joint trajectory and communication design for multi-UAV enabled wireless networks', *IEEE Trans. Wireless Commun.* .
- [30] Xu, J., Zeng, Y. and Zhang, R. [2018], 'UAV-enabled wireless power transfer: Trajectory design and energy optimization', *IEEE Trans. Wireless Commun.* pp. 1–1.
- [31] Yuan, W., Wang, J., Qiu, F., Chen, C., Kang, C. and Zeng, B. [2016], 'Robust optimization-based resilient distribution network planning against natural disasters', *IEEE Trans. Smart Grid* **7**(6), 2817–2826.
- [32] Zhang, S. and Liu, J. [2018], 'Analysis and optimization of multiple unmanned aerial vehicle-assisted communications in post-disaster areas', *IEEE Trans. Veh. Technol.* pp. 1–1.