A Model for Measuring and Reducing Risks from Drones in Construction

Yelda Turkan and Yiye Xu. CPWR Small Study, 2021.

Key Findings

- This study identified 23 safety risks associated with using unmanned aerial systems (UAS) on construction job sites and classified them into six categories of causal factors, also referred to as superior-level factors: (1) UAS-related, (2) environmental, (3) mission-related, (4) job-site related, and (5) contractor
- It established the relative importance of the six categories, with UAS-related factors judged as the most significant and the others following in the order listed above.
- For each of the 23 safety risks, the Delphi panel developed ratings for the perceived effectiveness level of 70 mitigation measures.