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*Firefighter on Random Threshold Graphs*

We investigate the firefighter problem on random threshold graphs, constructed by randomly assigning each vertex  $v$  a weight  $w(v) \in [0, 1]$ , and adding an edge between distinct vertices  $u$  and  $v$  if and only if  $w(u) + w(v) > 1$ . With an optimal strategy for firefighter on these threshold graphs, we found the distribution and expectation for the maximum number of saved vertices, as well as the number of firefighters required to save a given fraction of the vertex set. (Joint work with Rose Winter.)