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Decision Support System Development of Wildland Fire

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Message from the Guest Editors

Increasingly damaging wildfires around the globe have challenged the fire management community's ability to achieve organizational objectives and meet societal expectations while protecting responders from the significant hazards of the wildfire environment. The inherent complexity and high levels of uncertainty require innovative partnerships between the research and management communities to create timely, accurate, and appropriate data and models that inform a range of critical management decisions. Decision support systems (DSS) are emerging that support the range of the risk management cycle of planning, deciding, executing, monitoring, and learning. Topics for papers in this Special Issue include development, application, and needs assessment of DSS to inform the range of wildfire management decisions, including wildfire management organizational design, pre-event wildfire response and fuel treatment planning, incident strategy, suppression of resource needs and effectiveness measurement, and multievent prioritization.



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