



Addressing the Vulnerability of Grazing and Confined Ruminant Livestock in Climate Change, including the Role of Digital Technologies

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Message from the Guest Editor

Dear Colleagues,

Extensive livestock production plays an important role in global food security and sustainability because of the ability of ruminant animals to convert forage plants, crop residues, downgraded grains and other agricultural by-products into high quality food protein. In particular, extreme rain, wind and temperature events create challenges in meeting the production and welfare objectives set by livestock producers, and also in protecting the natural resource base where animals are held. To address these types of challenges, the agricultural industry is beginning to rely more on digital information-based system of management to plan for and respond to adverse weather events. These systems offer hope that the extreme events will be detected, monitored and managed at a scale that will result in improved outcomes for livestock, both in confinement and extensive grazing systems. This special issue will investigate the underlying vulnerability of ruminant livestock production and the role of emerging digital technologies to enable adaptation to variable and changing climates.

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