

Pasture Management & Research

by Simulation

PastureSim is a pasture simulation and visualisation tool designed to help farmers discover better ways to manage their pasture resources.

It features individual agent-based modelling

of ruminants and a realistic distributed pasture

growth model.

This accurately captures varying grazing intensities across the entire pasture area, providing an effective tool for the study of pasture management.

The system's pasture model is derived from a model used in the **SEPATOU** dairy farming simulator.

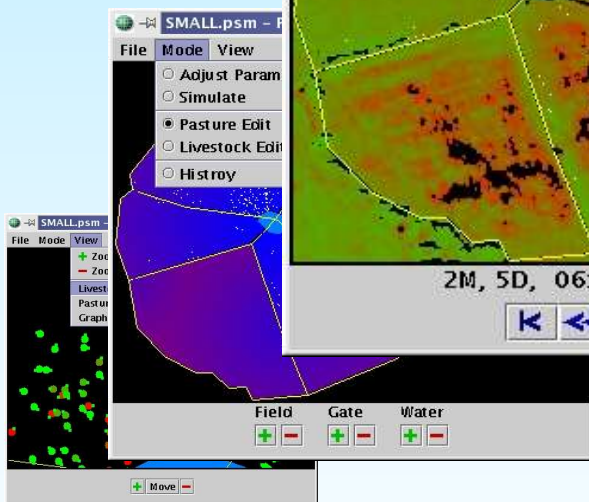


www.eviltree.co.uk/project



PastureSim has been used in **experiments** which clearly show the negative effect of using rectangular shaped fields instead of fields square fields of equivalent size.

It also highlights the relative merits of different **water placement** strategies. It shows that the use of many, more centrally located water sources is much more effective than using fewer water sources located in corners or enclosed areas.



Conrad Rider

c.rider@eviltree.co.uk

BSc Computer Science (Hons)
The University of Edinburgh