



Figure 1 Flight simulation without vegetation

Generating Enhanced Natural Environments And Terrain For Interactive Combat Simulations Genetics

**Margarita N. Favorskaya, Lakhmi C.
Jain**



Generating Enhanced Natural Environments And Terrain For Interactive Combat Simulations Genetics:

Generating Enhanced Natural Environments and Terrain for Interactive Combat Simulations (Genetics) Naval Postgraduate Naval Postgraduate School, 2015-04-04 Virtual battlefields devoid of vegetation deprive soldiers of valuable training in the critical aspects of terrain tactics and terrain based situational awareness but creating realistic landscapes by hand is notoriously expensive requiring both proprietary tools and trained artists hampering rapid scenario generation and limiting reuse GENETICS is a new object placement scheme where the arduous task of placing vegetation objects is reduced to finding readily available source data and setting a few parameters Our approach constructs large scale natural environments at run time using a procedural image based algorithm without the need for skilled artists or proprietary tools The resulting vegetation laden terrain looks realistic and the algorithm can be extended to incorporate a wide variety of environmental factors GENETICS offers researchers the ability to quickly and easily build consistent large scale synthetic natural environments to examine vegetation clutter requirements necessary to accomplish distributed mission training tasks This dissertation presents and implements the GENETICS algorithm compares it against other vegetation placement schemes and outlines how simulationists can use GENETICS to quickly and cheaply build large scale natural environments It also touches upon level of detail algorithms ecotype modeling and how GENETICS can be used to generate land cover data where none exists *Generating Enhanced Natural Environments and Terrain for Interactive Combat Simulations (GENETICS).*

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Handbook on Advances in Remote Sensing and Geographic Information Systems Margarita N. Favorskaya, Lakhmi C. Jain, 2017-02-24 This book presents the latest advances in remote sensing and geographic information systems and applications It is divided into four parts focusing on Airborne Light Detection and Ranging LiDAR and Optical Measurements of Forests Individual Tree Modelling Landscape Scene Modelling and Forest Eco system Modelling Given the scope of its coverage the book offers a valuable resource for students researchers practitioners and educators interested in remote sensing and geographic information systems and applications

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same passion as the performance of the Dallas Cowboys However for most of the engineers and scientists introducing computational intelligence technologies into practice looking at the growing number of new approaches and understanding their theoretical principles and potential for value creation becomes a more and more difficult task

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