Immersive Visual Analysis of Insect Flight Behaviour

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Figure 1: Immersive visualisation of bee flight behaviour. The bird's eye view provides a global view of the virtual environment with flight paths in a 3D geo-spatial context. The tracking viewpoint (bottom left) provides a close-up perspective on bee flight movements. A drop down means allows to change different attributes of the tracking data and related visualisation of the paths.

ABSTRACT

We present IFEght, a virtual reality based visual analysis system for insect more-central data. I-Fight aids in understanding insect movements and collective flight behaviour in a simulated environment. Towards this end, I-Fight visualises insect flight pulps in their nanral. 3D geo-spatial context. In this paper, we demonstrate the use of I-Fight for honey bee flight data and related one-inomental variables. The system is designed to be extendible to other insect flight data by adopting the data attribute space and the respective mapping onto visual variables, such as colours. The value of the presented I-Flight system is not only in complementing existing scientific methods and tools for understanding beauty bee behaviour, but also in taising broader as arones. For heavy bee preservation through an engaging, immerative constructure.

Index Terms: H.5.1 [Information Interfaces and Presentation to g., HC1]: Multimedia Information Systems: H.5.2 [Information Interfaces and Presentation (e.g., HC1)]: User Interfaces (D.2.2, H.1.2, 1.3.6)

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1 INTRODUCTION

Foraging and collecting food are essential behaviours of insects to secure their own survival and that of the colony. Understanding foraging behaviour is of great interest to the scientific community and to encomologists in particular. For insect species that feed on plants, for instance honcy boos, these activities involve a large range of collective behaviours as a swarm, from forming foraging strategies (increased activity that maximises their chances of encountering a plant, completely random activity, or sensory attraction to a plant from a distance) to executing the exploitation phase and periodically monitoring food availability [11]. These activities are repeated in flight cycles that are established and partially decided by environmental factors, including air temperature, humidity, precipitation, and time of day. Ememologists have uncovered many poculiar flight movements of insects, such as rapid changes in flight direction, sertical take-off and landing, upside-down flying, and lateral and backward movement [5, 14].

The study of insect flight has been advanced in recent years but most of the visualisation work, focused on flow features and wing accodynamics during flight via conventional desistop displays [14, 10]. With the rise of communical head mounted displays such as Ocalus Rift¹ and HTC Vive², immersive technology has become more accessible. Previous studies comparing immersive technology with desistop displays demonstrated the bonelits of immersion in acquisition of spatial knowledge [1, 7]. In this paper we therefore explaye virtual reality for immersion study and value of invect flight

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