机器感知与智能教育部重点实验室学术报告
科学与工程计算中心计算科学学术报告

北京大学 PEKING UNIVERSITY

Visualization of vessel movements

2:00 p.m. Friday, June 15th, 2012
Room 2736, Science Building No. 2

Huub van de Wetering (Assistant Professor)
Technische Universiteit Eindhoven

In this talk we present our work on moving object visualization, illustrated by visualizations of movement data of vessels at the North Sea. Large seafaring vessels are obliged to use the Automatic Identification System (AIS).This system provides, among others, regular information on the position, direction, and speed of these vessels. This information is intended to be used, as an alternative for RADAR, in collision avoidance. We use AIS data to create visualizations that give operators of coastal surveillance systems insight in vessel behaviour. A flexible solution is presented. The solution is based on density maps: Analysts can use their domain knowledge, to create parametrized visualizations of density maps; operators can interactively use these visualizations. Among others, the position of highways and anchoring zones, and the occurrence of drifters can be visualized.

Huub van de Wetering has been working, since 1985, at the Eindhoven University of Technology, where he currently works as Senior Lecturer in the section Algorithms and Visualization. His main research interests are in computer graphics and information visualization. Since 2007 he has been working on moving object visualization within joint projects (Poseidon and Metis) of industrial and academic partners, partially funded by the Dutch government.

时间：2012年6月15日（星期五）下午 2:00
地点：北京大学理科2号楼 2736