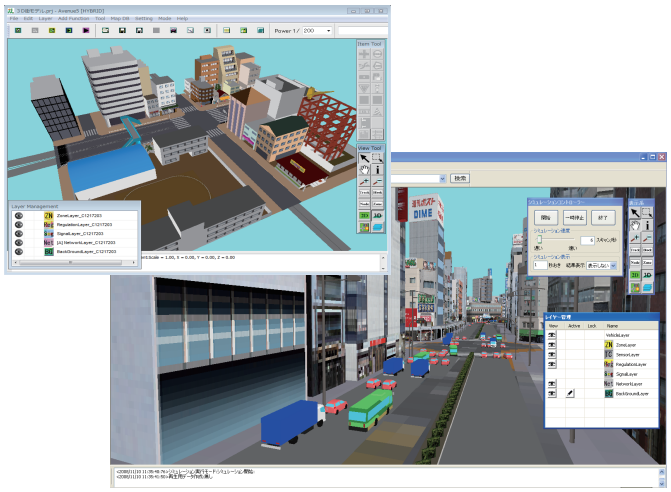
AVENUE Ver.5

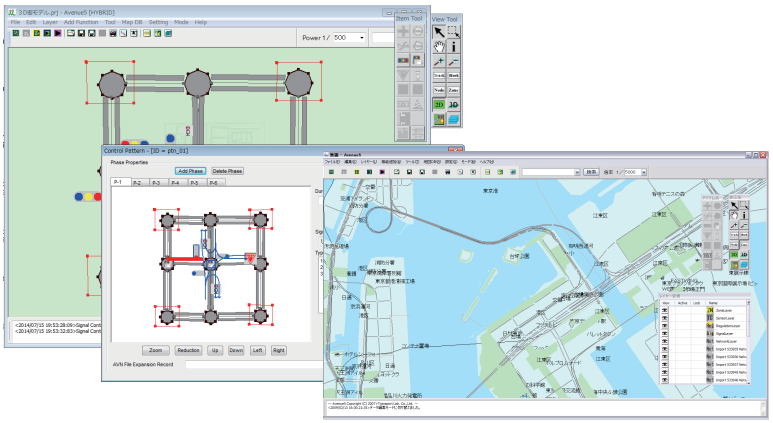
an Advanced & Visual Evaluator for road Networks in Urban arEas

AVENUE (an Advanced & Visual Evaluator for road Networks in Urban arEas) is a traffic simulator which was originally developed in the Industrial Science , the University of Tokyo , and was commercialized by i-Transportlab.Co.,Ltd. It is applicable to arterial road networks to evaluate various traffic control and management schemes. AVENUE has been used in many practical studies as well as for the cutting-edge researches, because of its easy operation and the flexibilityof customization.

Special Features of AVENUE

- Applicable from an intersection scale to a city-scale road network.
- Employing the Hybrid Block Density Method which is well-established and validated in the traffic flow theory.
- Incorporating dynamic route choice model taking account of traffic congestion, travel time, toll charge, etc.
- Considering various traffic regulations and lane closures accompanying with incidents or road works.
- Designing the signal phases and the auxiliary lane configurations at an intersection.
- Dealing with coordinated lane use for turning directions and vehicle types.
- Designating access and egress routes to the parking site of a shopping center.





Software Capability

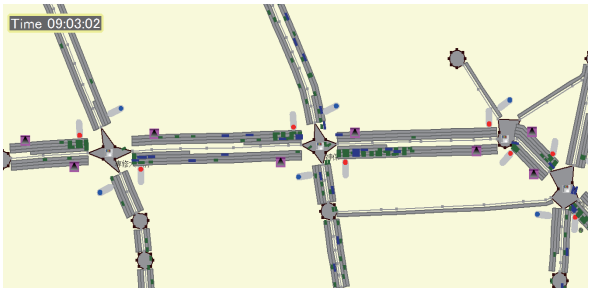
- Interactive data editing through GUI.
- Layered management for flexible data build.
- 2D/3D animation of vehicle motions.
- Recording animation movie.
- Import digital road map and GIS polygons for zones.
- Project administration mode to put related cases in order.
- Batch calculation mode to run multiple cases at once.

Case Studies

- Optimization of signal cycles and offset coordination along an arterial corridor.
- Estimation of the impact of the traffic regulations for a large event.
- Information provision of the parking place vacancy for access demand dispersion.

Advanced Research Topics

- Assessment of smooth and safe operation of ETC toll plaza.
- Virtual field test of new signal control algorithm through APIs.



Minimum PC requirements

CPU:	32 bit / 2 GHz
RAM:	4 GB
HDD:	5 GB free space
Display:	1024 x 768 (XGA), high color (24 bit)
OS:	Windows® 7 or later
Others:	USB 2.0 port

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