## Conclusions

- Uniform air flow distribution is especially new state to dilute the vehicle exhaust gases, or the vehicle emissions to acceptate concentrations in tunnel transverse ventilation systems.
- Multi-blade diverter dampers are enumeered spincifically for gas exhaust applications and it can be directly ustalled to the air supply duct.
- The air flow volume adjustment is version on the second second
- The the local resistance coefficient's answer when air flow out of the duct through the damper were nvestigate.



With the simulation results, theoretical analysis based on Bernoulli equation was applemented to establish the relationship between the local distance conncient and the opening angle. And finally the uniform the float distribution design strategy corresponding with the opening and e adjustment was obtained, in addition, a sufficient consistence between the theoretical and numerical calculation results in a design case verified the reliability of the strategy.

