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## **Field Evaluation of the Fuzzy Logic Based Ramp Metering Algorithm ACCEZZ**

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**Abstract:** The ACCEZZ ramp metering algorithm is an adaptive control approach based on Fuzzy Logic. Results from its calibration and validation as well as its evaluation using a microscopic simulation show how different control strategies can improve traffic conditions especially during peak hours. To evaluate the potential of ramp metering the ramp metering software TRANSRAMP has been developed, implemented and tested at a demonstration site in Munich (Germany). Since December 1<sup>st</sup>, 2005 TRANSRAMP controls traffic at two consecutive on ramps successfully with the ACCEZZ algorithm. Data for a cross-algorithm (with ALINEA) and a cross-site evaluation will be collected until April 2006 within the European research project EURAMP.

**Key Words:** control algorithms, flow control, fuzzy control, implementation, simulation, traffic control, telematics.