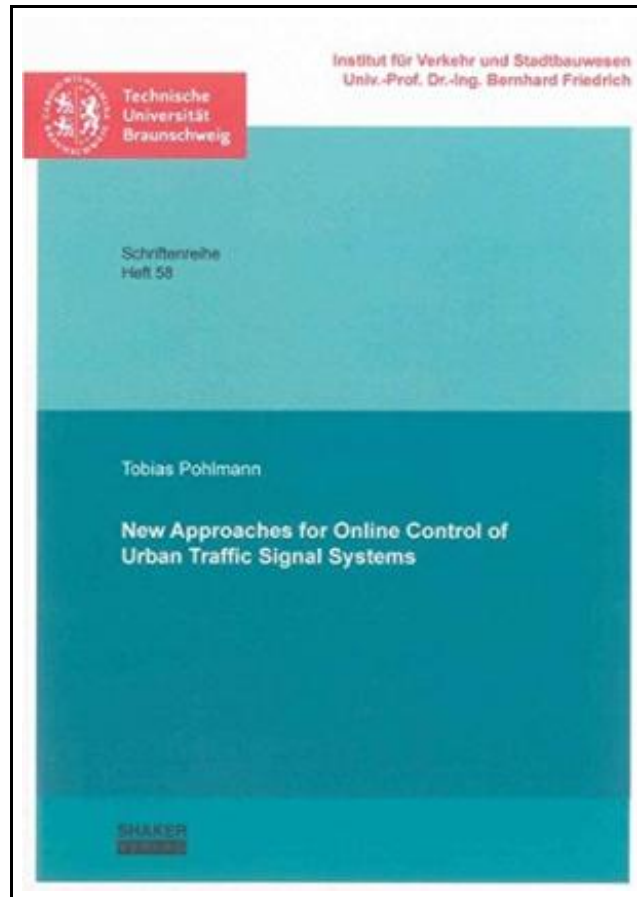


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NEW APPROACHES FOR ONLINE CONTROL OF URBAN TRAFFIC SIGNAL SYSTEMS



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Shaker Verlag Mai 2011, 2011. Buch. Book Condition: Neu. Neuware - Traffic signal control is one of the key factors in urban traffic control. It directly influences the quality of traffic flow. Besides fixed time and vehicle-actuated control, so called Adaptive Traffic Control Systems (ATCS) have been developed in the past. These systems control a set of connected intersections in a network and aim at optimizing traffic signal control in real-time by continuously adapting the signalization at the intersections to the currently detected or estimated traffic demand in the network. Improvements of traffic modeling techniques and of computer power promote further development of such sophisticated systems. In this thesis a new ATCS prototype has been developed and evaluated. The development has been motivated by recent research. Based on a comprehensive overview of the state-of-the-art of science and technology of traffic signal control the remaining need for research has been derived, followed by an overview of the conceptual design of the new ATCS prototype. The prototype employs a centralized concept and uses an optimization interval of 15 minutes, i.e. every quarter of an hour signal timings of all signalized intersections are optimized on a central computer and sent to the local controllers where the traffic signals are controlled accordingly. The first major task that has to be performed at each interval is to estimate the traffic demand of the next optimization interval. It is assumed that all lanes at all signalized intersections are equipped with vehicle detectors. Based on the detector counts of previous time intervals and on reference traffic demand patterns, a forecasting module estimates the detector counts of the next interval. In a next step, these counts are used as constraints for the estimation of the overall traffic demand in the whole network. This demand comprises Origin-Destination flows, traffic...



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