Mobility services that leverage on information and communication technologies (ICT) are changing the paradigm of travel. For example, app-based ride-hailing services have now mainstreamed dynamic pricing, pooling and biking incentives for commuting trips are being increasingly piloted through smartphones and bringing CO$_2$ tradable permits to personal vehicle usage is progressively becoming a necessity. These new and future smart mobility services will not only alter our travel patterns but also the allocation of fundamental transportation resources, both at the vehicle fleet and infrastructure levels. Subsequently, significant changes to VMT, parking, curbside usage, and network congestion are underway. However, inefficiency in transportation systems management is still an issue affecting millions of people every day and ICT-based solutions are yet to achieve their potential in the coordinated management of current infrastructure usage, especially in real-time.

Several control mechanisms have been proposed to tackle inefficiencies in congestion and vehicular emissions in real-time, such as dynamic pricing, incentives and, more recently, quantity control mechanisms such as tradable permits/credits schemes. All these have known deployment limitations and have yet to realize their theoretical benefits through ICT based mobility solutions. With smartphones being a point of information and communication for travelers and vehicles increasingly being equipped with sensing, communication and information features, the design and operation of these control mechanisms under an ICT based framework may finally bring realizable efficiency in a multi-modal, smart mobility paradigm. Evidence on the motivation, identification and deployment of integrated and coordinated control policies and operations of mobility services will help in closing the gap from theory to practice. This special session seeks to gather recent efforts in (1) policy and (2) system designs, (3) operation and (4) evaluation of innovative ICT based mobility management systems and to discuss the research needs for its successful deployment. Theoretical and empirical research within (but not restrict to) the following topics are welcome to this special session:

- Integrated vs. stand-alone mobility services
- Real-time congestion, vehicular energy and emissions management
- Multi-modal network optimization mechanisms
- Real-time coordination management systems for urban logistics
- Dynamic pricing
- Tradable permit/credit schemes
- Incentives optimization and efficient allocation
- Personalization of mobility services

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