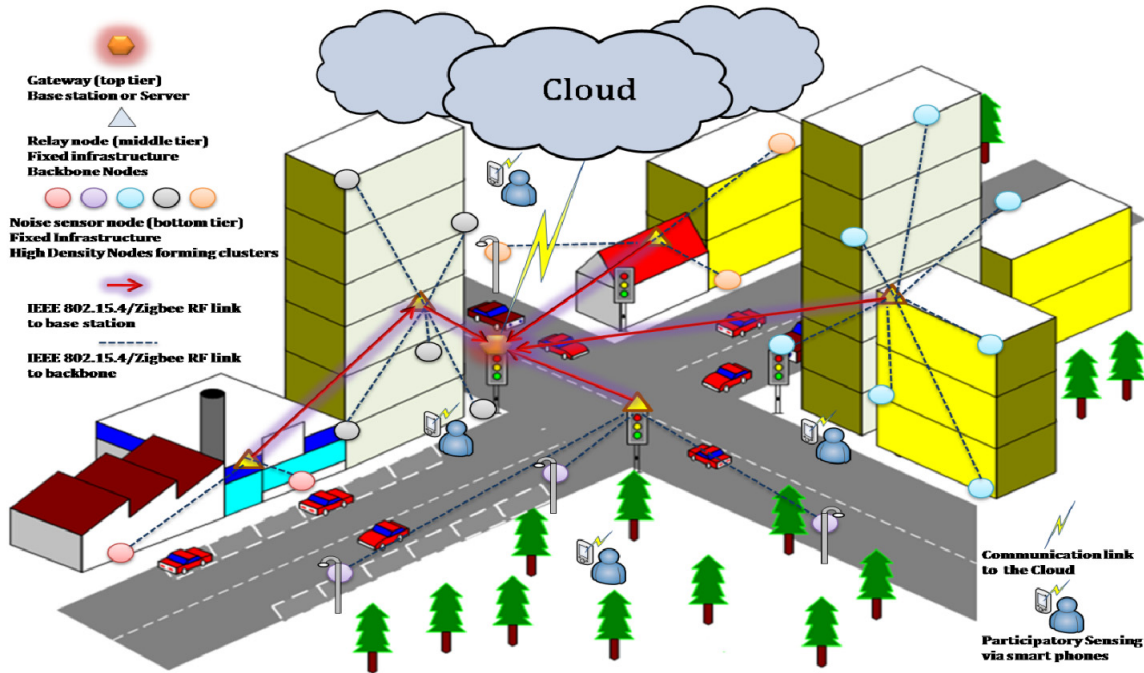# Creating a Smart City Through Internet of Things

Smart City Application

Supervisors: Prof. Marimuthu Palaniswami

Dual PhD option: Melbourne only degree (with a stay at the overseas lab for few months)

Project description: The project aims to create a Smart City capability through seamless urban environment monitoring via large scale sensing, data analytics and information representation. Interconnection of sensing and actuating devices as 'internet of things' addresses the ability to share information across platforms through a unified framework, developing a common operating picture for city management. Major outcomes will include energy-efficient sensing, network quality of service, cloud computing for sensor networks and high-level analytics to detect and interpret events for decision making.

Student performance requirement: GPA of 8.5/10 or better. Applicants must belong to the top 25% of the student cohort.

Please note: the applicant must discuss with the nominated supervisor before finalising the project proposal to be submitted to the University of Melbourne. This proposal is dedicated to IIT Kanpur educated students only. The scholarship covers tuition and living expenses to work on the project. Applicants are not required to do any teaching. Duration of the PhD is 3-3.5 years and applicants can be admitted to the PhD candidature after the completion of a Masters degree or 4 year Bachelors degree from IIT Kanpur.

Rankings: The Melbourne School of Engineering is Australia's No. 1 engineering and technology school and No. 25 in the world [*]

Website: www.eng.unimelb.edu.au

[*] **Times Higher Education World University Rankings 2012-2013.**