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## Vortragsankündigung

Seminar Regelungssysteme LV 0430L654

Mittwoch, 10. Juni 2015, 13:30 Uhr  
Vortragsort: EN 223

**Prof. Srikant Sukumar**  
IIT Bombay, India

### “Analysis and Design of Cooperative Control Laws”

Cooperating systems have caught the fascination of control theorists in recent years. Formation control and consensus are two major sub-problems. The fundamental argument in favour of co-operation is improved robustness and lower hardware cost of multiple agents working in tandem. Algorithms seek to mimic biological systems' behaviour such as flocking or formation flight. Two motivating problems on consensus and formation control will be presented. The first pertains to new analysis techniques for convergence rate estimation of consensus laws. The second one studies the problem of formation control on  $SO(3)$  (spacecrafts) with limited information.