

Information and Control in Networks

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The third and final part of the book includes contributions dealing with different information dynamics over networks: Nair investigates the problem of characterizing those noiseless network topologies for which the information transmission problem is equivalent to the existence of an admissible multi-commodity flow; Elia et al. adopt a dynamical system viewpoint in order to tackle the problem of distributed computation over unreliable networks whereby transmission links are subject to both additive noise and packet drops; Sedghi and Jonckheere apply techniques from Markov Random Fields to deal with the problem of detection of faults or malicious attacks in the smart power grid.

Any attempt to sketch a brief summary of the historical development of the subject here would necessarily fail to do justice to its breadth and complexity. We rather address the reader to the reference lists of the different chapters, and in particular in the ones by Franceschetti and Minero, Nayyar et al., for an overview of the relevant literature. A complete list of the titles of the LCCC workshop's seminars is also included in the next two pages, with the aim of giving the reader an idea of the full range of themes discussed there, including those who have not resulted in a contribution to this book.

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