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although the existing layering infrastructure used globally for designing computers data networks and intelligent distributed systems and which connects various local and global communication services is conceptually correct and pedagogically elegant it is now well over 30 years old has started create a serious bottleneck using cross layer techniques for communication systems techniques and applications explores how cross layer methods provide ways to escape from the current communications model and overcome the challenges imposed by restrictive boundaries between layers written exclusively by well established researchers experts and professional engineers the book will present basic concepts address different approaches for solving the cross layer problem investigate recent developments in cross layer problems and solutions and present the latest applications of the cross layer in a variety of systems and networks

this book studies the simulation of wireless networking in the domain of intelligent transportation systems its involving aircraft railway and vehicular communication on this subject particular focus is placed on effective communication channels mobility modeling multi technology simulation and global its simulation frameworks networking simulation for intelligent transportation systems addresses the mixing of ieee802 11p and lte into a dedicated simulation environment as well as the links between its and iot aeronautical mobility and vhd data link vdl simulation virtual co simulation for railway communication and control command realistic channel simulation mobility modeling and autonomic simulation for vanet and quality metrics for vanet the authors intend for this book to be as useful as possible to the reader as they provide examples of methods and tools for running realistic and reliable simulations in the domain of communications for its

cost the acronym for european cooperation in science and technology is the oldest and widest european intergovernmental network for cooperation in search established by the ministerial conference in november 1971 cost is presently used by the scientific communities of 35 european countries to coop ate in common research projects supported by national funds the funds provided by cost less than 1 of the total value of the projects support the cost cooperation networks cost actions through which with 30 million per year more than 30 000 european scientists are involved in search having a total value which exceeds 2 billion per year this is the financial worth of the european added value which cost achieves a bottom up approach the initiative of launching a cost action comes from the european scientists

themselves à la carte participation only countries interested in the action participate equality of access participation is open also to the scientific communities of countries not belonging to the european ion and flexible structure easy implementation and light management of the research initiatives are the main characteristics of cost

this book constitutes the thoroughly refereed proceedings of the 4th international conference on smart cities and green ict systems smartgreens 2015 and the 1st international conference on vehicle technology and intelligent transport systems vehits 2015 held in lisbon portugal in may 2015 the 15 full papers of smartgreens 2015 presented were carefully reviewed and selected from 73 submissions vehits 2015 received 27 paper submissions from which 3 papers were selected and published in this book the papers reflect topics such as smart cities energy aware systems and technologies sustainable computing and communications sustainable transportation and smart mobility

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