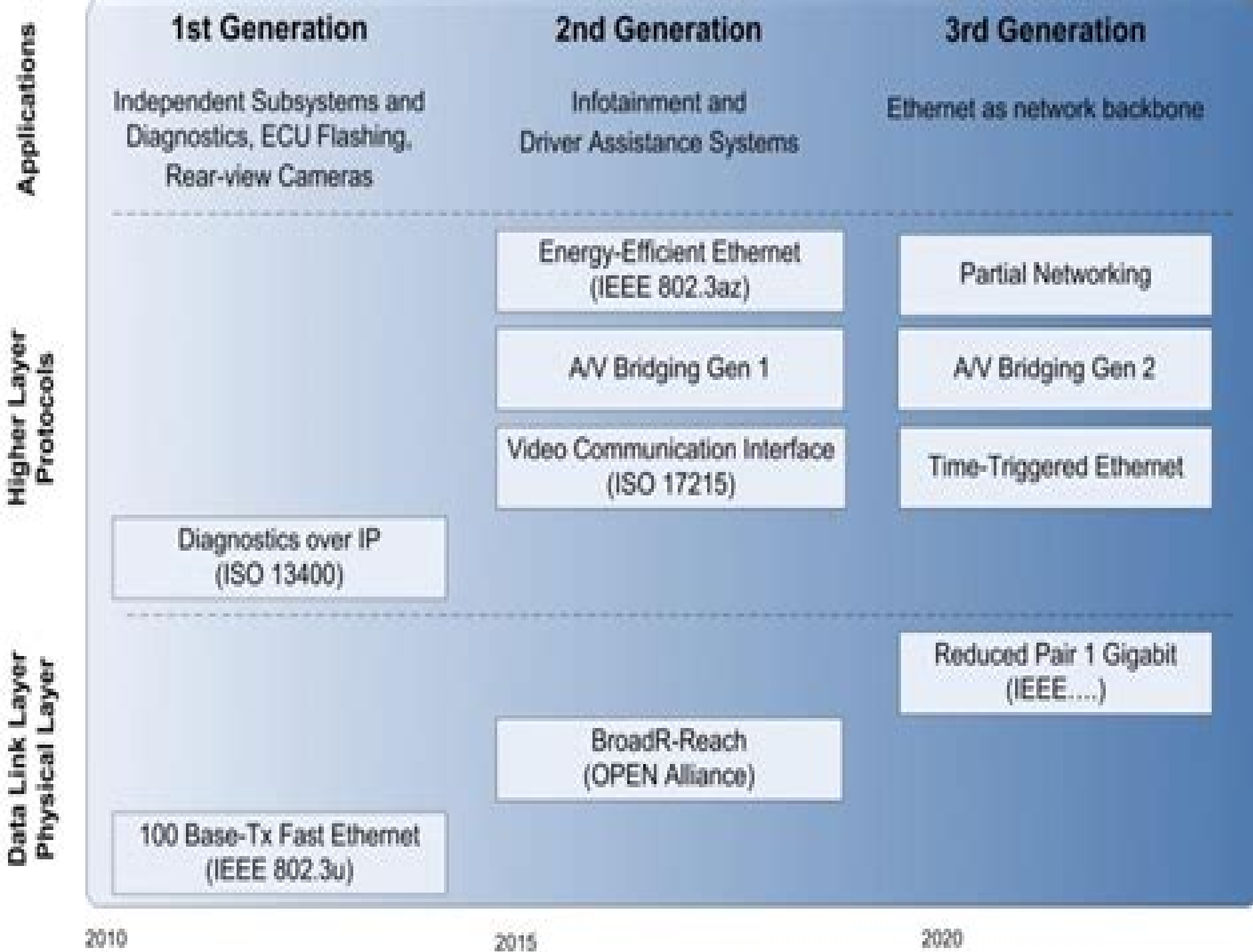




Automotive Ethernet A Holistic Approach Home Springer

Kirsten Matheus, Thomas Königseder



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Automotive Ethernet Colt Correa, Charles M. Kozierok, Jeffrey Quesnelle, Robert B. Boatright, Bob Metcalfe, Matt Holden, Kyle Irving, 2014-10-20 Featuring a foreword by Bob Metcalfe inventor of Ethernet Ethernet the most widely used local area networking technology in the world is moving from the server rooms of automobile manufacturers to their vehicles As the quantity and variety of electronic devices in cars continues to grow Ethernet promises to improve performance and enable increasingly powerful and useful applications in vehicles Now from Intrepid Control Systems www.intrepidcs.com a leader in the world of automotive networking and diagnostic tools comes the first book to describe the technology behind the biggest revolution in automotive networking since the 1980s Automotive Ethernet The Definitive Guide describes the fundamentals of networking data link and physical layers of industry standard Ethernet variants as well as the new one twisted pair 100Base Ethernet 1TPCE or BroadR Reach technology developed by Broadcom specifically for vehicle use Topics covered include in vehicle networking requirements comparing Ethernet to CAN and other existing networks such as LIN MOST and FlexRay TCP UDP IPv4 IPv6 and Diagnostics over IP DoIP Also covered are the Audio Video Bridging standards used to transport media over Ethernet Stream Reservation Protocol or SRP 802.1Qat Forward Queueing and Time Sensitive Streams or FQTSS 802.1Qav Timing and Synchronization for Time Sensitive Applications or gPTP 802.1as and Transport Protocol for Time Sensitive Applications or AVTP IEEE 1722 and more Automotive Ethernet The Definitive Guide will also be available as an ebook for your Kindle

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and Synchronization for Time Sensitive Applications or gPTP 802.1as and Transport Protocol for Time Sensitive Applications or AVTP IEEE 1722 and more Automotive Ethernet The Definitive Guide will also be available as an ebook for your Kindle

Safe, Autonomous and Intelligent Vehicles Huafeng Yu, Xin Li, Richard M. Murray, S. Ramesh, Claire J. Tomlin, 2018-11-22 This book covers the state of the art research and development for the emerging area of autonomous and intelligent systems In particular the authors emphasize design and validation methodologies to address the grand challenges related to safety This book offers a holistic view of a broad range of technical aspects including perception localization and navigation motion control etc and application domains including automobile aerospace etc presents major challenges and discusses possible solutions

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