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Autore	Puppi, Lionello
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Autore	Ho Quang-Dung
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Nota di contenuto	Introduction -- Smart Grid Communications Network (SGCN) -- Wireless Communications Technologies for the SGCN -- Wireless Routing Protocols for NANs -- Performance and Feasibility of GPSR and RPL in NANs -- SGCN: Further Aspects and Issues.
Sommario/riassunto	This brief presents a comprehensive review of the network architecture and communication technologies of the smart grid communication network (SGCN). It then studies the strengths, weaknesses and applications of two promising wireless mesh routing protocols that could be used to implement the SGCN. Packet transmission reliability, latency and robustness of these two protocols are evaluated and compared by simulations in various practical SGCN scenarios. Finally, technical challenges and open research opportunities of the SGCN are addressed. Wireless Communications Networks for Smart Grid provides communication network architects and engineers with valuable proven suggestions to successfully implement the SGCN. Advanced-level students studying computer science or electrical engineering will also find the content helpful.