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Autore	Li Xiang
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Altri autori (Persone)	LiuYuhong WuFan
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**Sommario/riassunto**

This book constitutes the refereed proceedings of the 8th EAI International Conference on Smart Grid Inspired Future Technologies, SmartGift 2024a, which was a virtual event, held during March 23–24, 2024. The 11 full papers presented in this volume were carefully reviewed and selected from 39 submissions. They are grouped into the following topics: wireless communication and distribution network; artificial intelligence technologies; security in wireless communication; system design for smart grid and IoT.