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Titolo	Precision agriculture technology for crop farming // edited by Qin Zhang ; contributors Hermann Auernhammer [and twenty one others]
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ISBN	1-000-21898-8 0-429-15968-4 1-4822-5108-6
Edizione	[1st ed.]
Descrizione fisica	1 online resource (372 p.)
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Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Chapter 1 A history of precision agriculture / David Franzen and David Mulla -- chapter 2. Sensing technology for precision crop farming / Marvin L. Stone and William R. Raun -- chapter 3. Data processing and utilization in precision agriculture / Chunjiang Zhao, Liping Chen, Guijun Yang, and Xiaoyu Song -- chapter 4. Control of precision agriculture production / Qin Zhang -- chapter 5. Intelligent agricultural machinery and field robots / Shufeng Han, Brian L. Steward, and Lie Tang -- chapter 6. Precision agriculture in large-scale mechanized farming / Chenghai Yang, Ruixiu Sui, and Won Suk Lee -- chapter 7. A systems approach to community-based precision agriculture / Sakae Shibusawa -- chapter 8. Precision agriculture in china: sensing technology and application / Hong Sun and Minzan Li -- chapter 9. Good agricultural practices, quality, traceability, and precision agriculture / Josse De Baerdemaeker and Wouter Saeys -- chapter 10. State of the art and future requirements / Hermann Auernhammer and Markus Demmel.
Sommario/riassunto	Introducing processes and applications based on a global scale, the book reveals how precision agriculture can be used in large-scale agriculture, community agriculture, and diversified farming. It includes

site-specific information from a variety of information sources for planning, planting, growing, and harvesting agricultural crops. It also presents a new concept based on the control system theory that can be used to formulate systematic methods for more effective precision crop production.
