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Released: March 2012

New Technologies for Constructing Complex Agricultural and Environmental Systems



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The worldwide increase in population has led to numerous innovative approaches to the difficulties posed by food production and agriculture in general.

New Technologies for Constructing Complex Agricultural and Environmental Systems presents high-quality research on the design and implementation of information systems in the fields of agronomics, mathematics, economics, computer science, and the environment. This book gives holistic approaches to the design, development, and implementation of complex agricultural and environmental information systems, addressing the integration of several scientific domains such as agronomy, mathematics, economics, and computer science. This book will only become more important as the world searches for the best ways to manage food production.

Topics Covered:

- Agricultural production
- Decision support systems
- Eco-technologies
- Embedded sensor and mobile database
- Geographic information systems
- Global climate change
- Precision farming
- Simulation and optimization of agricultural systems
- Soil, air and water quality models
- Water management

ISBN: 9781466603332; © 2012; 417 pp.

Print: US \$180.00 | Perpetual: US \$270.00 | Print + Perpetual: US \$360.00

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François Pinet is a researcher at the French Research Institute for Agricultural and Environmental Engineering (Clermont Ferrand, France). His field of research is in environmental information systems and geomatics. He belongs to several scientific committees of different conferences and journals in these fields. Also, he has been a co-organizer for several workshops on environmental systems.