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Altri autori (Persone)	JaulinLuc Le BarsFabrice
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Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Part I Hardware design -- Part II Energy and power management strategies -- Part III Modeling, simulation, control, and stability analysis -- Part IV High level control architectures and algorithms.
Sommario/riassunto	An autonomous sailboat robot is a boat that only uses the wind on its sail as propelling force, without remote control or human assistance to achieve its mission. This involves autonomy in energy (using batteries, solar panels, turbines...), sensor data processing (compass, GPS, wind sensor...), actuators control (rudder and sail angle control...) and decision making (embedded computer with adequate algorithms). Although robotic sailing is a relatively new field of research, several applications exist for this type of robots : oceanographic and

hydrographic research, maritime environment monitoring, meteorology, harbor safety, assistance and rescue in dangerous areas... Over the last decade, several events such as the Microtransat challenge, the WRSC/IRSC and SailBot have been set up to stimulate research and development around robotic sailing. These proceedings cover the current and future academic and technology challenges raised by the development of autonomous sailboat robots presented at the WRSC/IRSC (World Robotic Sailing Championship/International Robotic Sailing Conference) 2013, in Brest, France, 2-6 September 2013.
