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Titolo	Advances in Aerospace Guidance, Navigation and Control : Selected Papers of the Second CEAS Specialist Conference on Guidance, Navigation and Control // edited by Qiping Chu, Bob Mulder, Daniel Choukroun, Erik-Jan van Kampen, Coen de Visser, Gertjan Looye
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Descrizione fisica	1 online resource (773 p.)
Altri autori (Persone)	ChuQiping
Disciplina	629.453
Soggetti	Aerospace engineering Astronautics Control engineering Aerospace Technology and Astronautics Control and Systems Theory
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record. The conference took place in Delft, The Netherlands in 2013.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Linear Parameter Varying Control of an Agile Missile Model Based on the Induced L2-norm Framework -- L2-norm Framework -- Improving the performance of an actuator control scheme during saturation -- Concurrent Learning Adaptive Model Predictive Control -- Model Reference Adaptive Control of Mildly Non-Linear Systems with Time Varying Input Delays - Part I Model Reference Adaptive Control of Mildly Non-Linear Systems with Time Varying Input Delays - Part II LFT model generation via ℓ_1 -regularized least squares -- An Impulsive Input Approach to Short Time Convergent Control for Linear Systems -- Model Formulation of Pursuit Problem with Two Pursuers and One Evader -- Nonlinear Output-Feedback H ∞ Control for Spacecraft Attitude Control.
Sommario/riassunto	Following the successful 1st CEAS (Council of European Aerospace Societies) Specialist Conference on Guidance, Navigation and Control (CEAS EuroGNC) held in Munich, Germany in 2011, Delft University of

Technology happily accepted the invitation of organizing the 2nd CEAS EuroGNC in Delft, The Netherlands in 2013. The goal of the conference is to promote new advances in aerospace GNC theory and technologies for enhancing safety, survivability, efficiency, performance, autonomy and intelligence of aerospace systems using on-board sensing, computing and systems. A great push for new developments in GNC are the ever higher safety and sustainability requirements in aviation. Impressive progress was made in new research fields such as sensor and actuator fault detection and diagnosis, reconfigurable and fault tolerant flight control, online safe flight envelop prediction and protection, online global aerodynamic model identification, online global optimization and flight upset recovery. All of these challenges depend on new online solutions from on-board computing systems. Scientists and engineers in GNC have been developing model based, sensor based as well as knowledge based approaches aiming for highly robust, adaptive, nonlinear, intelligent and autonomous GNC systems. Although the papers presented at the conference and selected in this book could not possibly cover all of the present challenges in the GNC field, many of them have indeed been addressed and a wealth of new ideas, solutions and results were proposed and presented. For the 2nd CEAS Specialist Conference on Guidance, Navigation and Control the International Program Committee conducted a formal review process. Each paper was reviewed in compliance with good journal practice by at least two independent and anonymous reviewers. The papers published in this book were selected from the conference proceedings based on the results and recommendations from the reviewers.
