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Titolo	Control and Inverse Problems : The 2022 Spring Workshop in Monastir, Tunisia / / Kais Ammari, Chaker Jammazi, and Faouzi Triki, editors
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Edizione	[First edition.]
Descrizione fisica	1 online resource (276 pages)
Collana	Trends in Mathematics Series
Disciplina	629.8312
Soggetti	Control theory Inverse problems (Differential equations)
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Stabilization of one dimensional wave equation with variable potential and torque -- Controlling a dynamic system through reinforcement learning -- Landweber iterative method for an inverse source problem of space-fractional diffusion equations -- On the Spectrum Distribution of Parametric Second-order Delay Differential Equations. Perspectives in Partial Pole Placement -- Exact controllability of the linear Biharmonic Schrdinger equation with space-dependent coefficients -- Carleman estimate and application to the stabilization of a dissipative hyperbolic system -- On the transfer of information in multiplier equations -- A Global Carleman Estimates of the linearized sixth-order 1 D-Boussinesq equation Application -- Nonparametric instrumental regression via mollification -- Finite-time stabilization of some classes of infinite dimensional systems -- Dispersion on certain Cartesian products of graphs -- Tracking Control of Chained Systems: application to nonholonomic unicycle mobile robots -- A short elementary proof of the Gearhart-Pruss theorem for bounded semigroups -- Revisit the damped wave equation.
Sommario/riassunto	This volume presents a timely overview of control theory and inverse problems, and highlights recent advances in these active research areas. The chapters are based on talks given at the spring school "Control & Inverse Problems" held in Monastir, Tunisia in May 2022. In addition to providing a snapshot of these two areas, chapters also

highlight breakthroughs on more specific topics, such as: Controllability of dynamical systems Information transfer in multiplier equations Nonparametric instrumental regression Control of chained systems The damped wave equation Control and Inverse Problems will be a valuable resource for both established researchers as well as more junior members of the community.