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Statistical Methods for Dynamic Treatment Regimes: Reinforcement Learning, Causal Inference, and Personalized Medicine Statistics for Biology and Health: Amazon.co.uk: Bibhas Chakraborty, Erica E.M. Moodie: Books

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Statistical Methods for Dynamic Treatment Regimes. Reinforcement Learning, Causal Inference, and Personalized Medicine. By (author) Bibhas Chakraborty, Erica E.M. Moodie. ISBN 13 9781461474289. Overall Rating (0 rating) Rental Duration. Price. 6 Months. \$ 25.49 Add to Cart.

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Review of the Book Statistical Methods for Dynamic ...

proach for identification of dynamic treatment effects in the presence of dynamic selection, noncompliance, and right-censoring.Ourmethodisfullynonparametric.andwedonot impose independence of observed and unobserved charac-teristics or separability in their effects on the outcome. We propose estimation procedures and derive their asymptotic properties.

Nonparametric Instrumental Variable Methods for Dynamic ...

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Dynamic Treatment Regimes: Statistical Methods for ...

Value maximization methods are based on forming an estimator of  $V(d) = E d Y$  and then directly maximizing this estimator over  $d$  in some class of DTRs, say  $D$ . Value maximization methods include outcome weighted learning [9, 14], augmented value maximization [10, 12, 13], and structural mean models . We give a version of outcome weighted learning in the subsequent section.

Estimation of Optimal Dynamic Treatment Regimes

Common approaches to constructing a dynamic treatment regime from data, such as Q-learning, employ non-smooth functionals of the data. Therefore, simple inferential tasks such as constructing a...