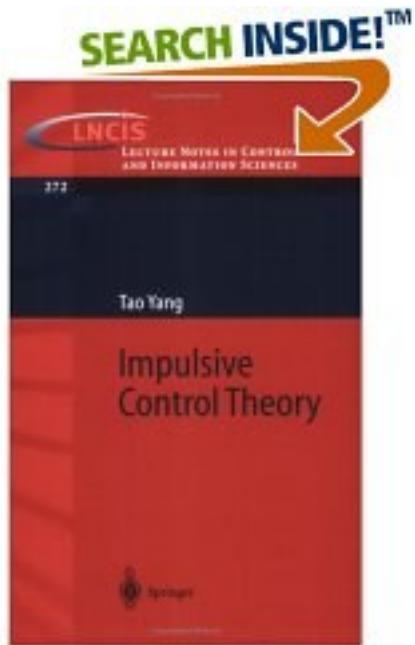


Impulsive Control Theory



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著者:tao yang

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This book presents a unified theoretical framework of some recent developments on the impulsive control theory and its applications to engineering problems. Different structures of impulsive control systems and impulsive control strategies are presented. The following theoretical aspects are also addressed: basic knowledge of impulsive differential equations; controllability and stability of linear impulsive control systems; stability of nonlinear impulsive control systems including: practical stability, global stability, absolute stability, stability in terms of two measures; and optimal impulsive control. This book presents also some engineering applications of impulsive control theory. The readers of this book are scientists, engineers, researchers and graduate students interested in impulsive control, nonlinear control systems, chaotic communications systems and nano-electronics.

Book Info

Presents a unified framework of some recent developments on the impulsive control theory and its applications to engineering problems. For scientists, engineers, researchers and graduate students interested in impulsive control, nonlinear control systems, chaotic communications systems and nano-electronics.

作者介绍:

Tao Yang (born 1970) is a computer scientist. He attended Tongji University, where he received his Bachelor's degree in 1990 and his Master's degree in 1993. He has invented fuzzy cellular neural networks (FCNN) in 1995, computational verb in 1997, chaotic digital CDMA (with L.O. Chua) in 1997, computational verb theory in 2001, physical linguistics in 2002, and the theory of the Unicogse in 2004.

He worked as a visiting scholar and associate research specialist of electrical engineering and computer sciences at the University of California, Berkeley from 1995 to 2001.

He is currently the Chief Scientist of Yang's Scientific Research Institute, U.S.; the CEO of Wuxi Tianyang Ruijie Technology Co. Ltd., China; and the editor-in-chief of the International Journal of Computational Cognition.

His research interests are: Cellular image processing and its applications to industrial applications, computational verb theory and its applications to image processing, computational cognition and its applications to cognitive image processing. He has authored and co-authored over one hundred journal and conference papers of which over 60 have been cited by SCI more than 1000 times.

His theories of computational verb and physical linguistics have been applied to different commercial and industrial applications such as cognitive image search engine, camera flame detecting systems, webcam card counting systems, webcam barcode scanners, webcam home security systems, highway vehicle categorizing systems, visual traffic monitoring and control systems, industrial intelligent controllers and image database indexing systems. The representative products are YangSky MAGIC Card Counter(2004), BarSeer webcam barcode reader(2005), FlameSky visual flame detecting system(2005), DriveQfy automatic visual driver qualify testing system(2005) and CardSeer camera playing card counting system(2005).

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