

## Quanser Srv02 Instructor

Soft Computing: Theories and Applications Iterative Learning Control A Contribution to Adaptive Sliding-Mode Control with Gaussian Radial-Basis-Function Networks Proceedings, IEEE Control Systems Society ... Symposium on Computer-Aided Control System Design (CACSD). Rajesh Kumar Hyo-Sung Ahn Lei Ma

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this book focuses on soft computing and how it can be applied to solve real world problems arising in various domains ranging from medicine and health care to supply chain management image processing and cryptanalysis it gathers high quality papers presented at the international conference on soft computing theories and applications socta 2022 held at university institute of technology himachal pradesh university shimla himachal pradesh india the book offers valuable insights into soft computing for teachers and researchers alike the book inspires further research in this dynamic field

this monograph studies the design of robust monotonically convergent iterative learning controllers for discrete time systems iterative learning control ilc is well recognized as an efficient method that offers significant performance improvement for systems that operate in an iterative or repetitive fashion e.g. robot arms in manufacturing or batch processes in an industrial setting though the fundamentals of ilc design have been well addressed in the literature two key problems have been the subject of continuing research activity first many ilc design strategies assume nominal knowledge of the system to be controlled only recently has a comprehensive approach to robust ilc analysis and design been established to handle the situation where the plant model is uncertain second it is well known that many ilc algorithms do not produce monotonic convergence though in applications monotonic convergence can be essential this monograph addresses these two key problems by providing a unified analysis and design framework for robust monotonically convergent ilc the particular approach used throughout is to consider ilc design in the iteration domain rather than in the time domain using a lifting technique the two dimensional ilc system

which has dynamics in both the time and iteration domains is transformed into a one-dimensional system with dynamics only in the iteration domain, the so-called super vector framework. Resulting from this transformation is used to analyze both robustness and monotonic convergence for typical uncertainty models including parametric interval certainties, frequency-like uncertainty in the iteration domain and iteration domain stochastic uncertainty.

In der vorliegenden Dissertation wurden Untersuchungen zur adaptiven Sliding Mode Regelung mit Netzen von Gaußschen Radialen Basisfunktionen vorgestellt. Ergebnisse aus Simulationen bzw. Laborexperimenten wurden dargestellt um die Leistungsfähigkeit der vorgeschlagenen Regelungsverfahren zu veranschaulichen. Grundlagen der Sliding Mode Regelung wurden in Kapitel 2 zusammengefasst. Die Unsicherheit der Regelstrecke kann durch eine hochfrequente Stellgröße und eine niedrige Regelungsfrequenz entsprechen. Die Synthese der Sliding Mode Regelung basierend auf der direkten Methode von Lyapunov mit asymptotischer Konvergenz wurde dargestellt. In diesem Kapitel wurde ein Überblick zur adaptiven Sliding Mode Regelung gegeben. Während die klassischen Methoden zur Parameterschätzung das adaptive Problem für Systeme in der linear in Parameter Form relativ gut lösen, wurden neue Verfahren der adaptiven Regelung mit neuronalen Netzen für Systeme eingeführt, die nicht diese Form aufweisen. Diese Verfahren beantworten allerdings meistens nicht die Frage der Stabilität hinsichtlich der Approximationsfehler neuronaler Netze. Eine der Hauptideen dieser Arbeit ist die Integration von SMC mit direkter adaptiver Regelung in der die Stabilität durch die direkte Methode von Lyapunov sichergestellt wird. Netze mit Gaußschen Radialen Basisfunktionen (GRBF) Netze wurden als Kompensatoren der Unsicherheit eingeführt, der Grund für die Auswahl der GRBF Netze war darin, dass ihre Ausgangsangehörigen Linearkombinationen der Ausgangsgewichtungen sind, so dass die Stabilität des Regelkreises einfacher zu erreichen ist. GRBF Netze besitzen neben der besseren Konvergenz auch ein schnelleres Lernverhalten verglichen mit den Multilayer Feedforward Netzen.

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