A Fuzzy Logic Solution for Feed Drive Control

Ferit Idrizi, Jorgaq Kacani,

Abstract— Because of high speed conditions of work and nonlinearities during machining the feed drive mechanism of vertical milling machine it becomes a very difficult model to be designed and controlled. In this paper we try to find a fast solution to overcome these problems and it is an attempt of finding alternative easiest ways of successful fuzzy logic control implementation. We propose an approach that offers some stability characteristics and very good computational performances efficiency. The controller gives fast loop response stability; reducing the steady state error, increasing the rising time and decreasing the settling time.

Index Terms— Fuzzy logic, feed drive, CNC, membership function, control, intelligent control, PID

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1 INTRODUCTION

Usually today's CNC machine tools have high speed spindle motors and high-power servomotors with high-lead ball-screws. [1] During high speed and high accelerations work conditions, the main issue is vibration, respectively machining accuracy losses in term of path tracking errors, positioning errors, wavy and spoiled surfaces of the parts, etc Generally these feed drives are designed using a rotary servomotor and a ballscrew. The most common motors used in the feed drive are dc motors since they allow a wide range of operating speed with a sufficiently large torque delivery required by machine tools. This torque produced by the motor is spent in acceleration of inertia reflected in the motor shaft, overcoming the friction in the motor contact surfaces, friction in the mechanical part of feed drive as guideways, bearings and resisting against feed cutting forces.[2] But when a high speed command is given, that causes problems with controlling the relative movement between work piece and the tool because of vibration and inertia in the mechanical system. To overcome all these nonlinearities and difficulties during the system control, over the years have been used various PID based controllers, in order to improve the dynamic characteristic of the feed drive control loop. By fuzzy logic we can model imprecise concepts and by different weights of defining conjunction and disjunction and fuzzy set negation, we can manage different nature of nonlinearity behaviors of the system.

Optimization is achieved by setting the dynamic range of the fuzzy sets according to tuning process results on MatLab. Considerable improvements are shown on the output response of the system by reducing overshoot, rising and settling time.

Simulated results made by using MATLAB/ SIMULINK shows the relevant effectiveness of its applications by errors comparison between conventional and applied controller.

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2 THE MODEL

The feed drive mechanism of a three-axis vertical milling machine consist of a DC motor and a lead-screw with recirculating balls. The DC servomotor which is directly connected to lead-screw shaft drives the table and work piece. [3] The motor, for a short period of time, have to deliver a high dynamic torque to accelerate the lead-screw assembly and the table with work-piece, which means a high peak torque delivery at the start, until the drive reaches the desired steady state speed, and a sufficiently high continuous torque delivery range to overcome the friction in the sideways and feed drive bearings and also the cutting force. [3]
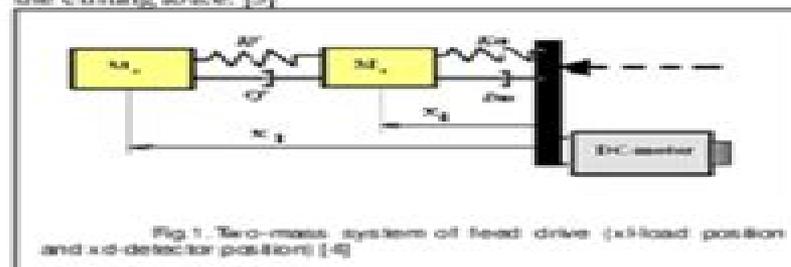

Fig.1. Two-mass system of feed drive (x-load position and x-d detector position) [4]

This is a typical mechatronic system and can be divided into three parts: mechanical structure, drive mechanism and control system. For this servomechanism, the transfer functions of the individual system components are usually known or have to be calculated. The electrical part, it is presented by a transfer function (1) according to [3] and, gives a actuator force to the second part which is the model of mechanical system and which is simplified to a two-mass system with a spring and a damper element as shown in fig.1. [4]

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Intelligent Control Clarence W. De Silva,1995 *Soft Computing* ,2005 *Introduction to Fuzzy Logic using MATLAB* S.N. Sivanandam,S. Sumathi,S. N. Deepa,2006-10-28 Fuzzy Logic at present is a hot topic among academicians as well various programmers This book is provided to give a broad in depth overview of the field of Fuzzy Logic The basic principles of Fuzzy Logic are discussed in detail with various solved examples The different approaches and solutions to the problems given in the book are well balanced and pertinent to the Fuzzy Logic research projects The applications of Fuzzy Logic are also dealt to make the readers understand the concept of Fuzzy Logic The solutions to the problems are programmed using MATLAB 6 0 and the simulated results are given The MATLAB Fuzzy Logic toolbox is provided for easy reference **Robust Engineering Designs of Partial Differential Systems and Their Applications** Bor-Sen Chen,2021-12-22 Most systems in science engineering and biology are of partial differential systems PDSs modeled by partial differential equations Many books about partial differential equations have been written by mathematicians and mainly address some fundamental mathematic backgrounds and discuss some mathematic properties of partial differential equations Only a few books on PDSs have been written by engineers however these books have focused mainly on the theoretical stabilization analysis of PDSs especially mechanical systems This book investigates both robust stabilization control design and robust filter design and reference tracking control design in mechanical signal processing and control systems to fill a gap in the study of PDSs Robust Engineering Designs of Partial Differential Systems and Their Applications offers some fundamental background in the first two chapters The rest of the chapters focus on a specific design topic with a corresponding deep investigation into robust H filtering stabilization or tracking design for more complex and practical PDSs under stochastic fluctuation and external disturbance This book is aimed at engineers and scientists and addresses the gap between the theoretical stabilization results of PDSs in academic and practical engineering designs more focused on the robust H filtering stabilization and tracking control problems of linear and nonlinear PDSs under intrinsic random fluctuation and external disturbance in industrial applications Part I provides backgrounds on PDSs such as Galerkin s and finite difference methods to approximate PDSs and a fuzzy method to approximate nonlinear PDSs Part II examines robust H filter designs for the robust state estimation of linear and nonlinear stochastic PDSs And Part III treats robust H stabilization and tracking control designs of linear and nonlinear PDSs Every chapter focuses on an engineering design topic with both theoretical design analysis and practical design examples *Semantic Web Technologies and Applications in Artificial Intelligence of Things* Ortiz-Rodriguez, Fernando,Leyva-Mederos, Amed,Tiwari, Sanju,Hernandez-Quintana, Ania R.,Martinez-Rodriguez, Jose L.,2024-05-16 The confluence of Artificial Intelligence of Things AIoT and Semantic Web technologies is nothing short of revolutionary The profound impact of this synergy extends far beyond the realms of industry

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