



## Robot Control Using an Artificial Neural Network

By Olaf Wandel

Diplom.de. Paperback. Condition: New. 54 pages. Dimensions: 10.4in. x 7.4in. x 0.1in. Diplomarbeit, die am 31. 05. 1997 erfolgreich an einer Fachhochschule in Deutschland im Fachbereich Allgemeiner Maschinenbau eingereicht wurde. Abstract: The aim of the project was to control three joints of an industrial robot in terms of its position, velocity and acceleration. The work considered the necessary hardware, principles of neural networks and controlling techniques. The hardware comprised of a robot with three DC-motors and three optical position encoders, a personal computer with a DA card for voltage output to the robot and two DD cards. One DD card for receiving values from the optical encoders and one for timing. The basics of artificial neural network type perceptrons were described. The special features bias, output feedback, momentum term, adjustment of momentum factor and adjustment of learning rate for this artificial neural network type were considered. An introduction to learning and control structures using artificial neural networks were given. These were controller copying, direct modelling, direct inverse modelling, control with a model and an inverse model, forward and inverse modelling, control action feedback error learning, feedback error learning, learning and control using the plants Jacobian. The conversion of two learning and...



[READ ONLINE](#)  
[ 6.49 MB ]

### Reviews

*The publication is easy in read through safer to comprehend. It is actually loaded with wisdom and knowledge Its been printed in an extremely simple way and is particularly simply right after i finished reading through this pdf where actually modified me, affect the way i believe.*

*-- Ms. Clementina Cole V*

*This is the very best publication i have got read until now. It is definitely simplified but shocks within the fifty percent of the pdf. You may like how the article writer create this pdf.*

*-- Rosario Durgan*

## See Also



### [When Santa Claus Prayed](#)

Xulon Press. Paperback. Book Condition: New. Paperback. 28 pages. Dimensions: 9.0in. x 8.1in. x 0.3in.Dad, youre wrong about Santa Claus! I cant sit on baby Jessuss lap or even see him! I cant send letters to Jesus! Santa Claus is the star...



### [Magnificat in D Major, Bwv 243 Study Score Latin Edition](#)

Petrucchi Library Press. Paperback. Book Condition: New. Paperback. 70 pages. Dimensions: 9.8in. x 7.2in. x 0.3in.Bach composed the first version of this piece in 1723 using the key of E-flat major for the Christmas Vespers in Leipzig which contained several Christmas texts....



### [The Puzzle of the Indian Arrowhead Three Amigos](#)

Gallopade International. Paperback. Book Condition: New. Paperback. 54 pages. Dimensions: 7.3in. x 5.2in. x 0.3in.When you purchase the Library Bound mystery you will receive FREE online eBook access! Carole Marsh Mystery Online eBooks are an easy, effective, and immediate way to read...



### [The Case of the Hunchback Hairdresser Criss Cross Applesauce](#)

Gallopade International. Paperback. Book Condition: New. Paperback. 54 pages. Dimensions: 7.5in. x 5.0in. x 0.2in.When you purchase the Library Bound mystery you will receive FREE online eBook access! Carole Marsh Mystery Online eBooks are an easy, effective, and immediate way to read...



### [Kindle Fire Tips And Tricks How To Unlock The True Power Inside Your Kindle Fire](#)

CreateSpace Independent Publishing Platform. Paperback. Book Condition: New. This item is printed on demand. Paperback. 52 pages. Dimensions: 9.0in. x 6.0in. x 0.1in.Still finding it getting your way around your Kindle Fire Wish you had the answers to all your frequently asked...



### [The Mystery in Chocolate Town Hershey, Pennsylvania Carole Marsh Mysteries Teachers Guide](#)

Gallopade International. Paperback. Book Condition: New. Paperback. 32 pages. Dimensions: 11.0in. x 8.2in. x 0.1in.When you purchase the Library Bound mystery you will receive FREE online eBook access! Carole Marsh Mystery Online eBooks are an easy, effective, and immediate way to read...