

Useful expressions for paper-writing

Notice: All of the following sentences are derived from papers and the internet.

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一、研究方法表述类：

A great number of research results have been reported , for example[1]—
[5]

★ A neural network based dynamics compensation method has been proposed for trajectory control of a robot system[11].

A combined approach of neural network and sliding mode technology for both feedback linearization and control error compensation has been presented[12].

1、研究目的表示方法

The purpose of this investigation is to ...

The main focus of this study is ...

The objective of the present work is to ...

The aim of the present study is to ...

The present study is aimed at ...

The present study is designed to ...

The present study is an attempt to ...

We have embarked on research attempting to ...

This study is undertaken with the intent of ...

The present investigation is conducted to ...

This study was undertaken to ...

To gain a better understanding of ...

The investigation concentrated on efforts to ...

The present study is performed in an effort to ...

2、研究动机的表示方法

Since the early literature contained a few reports of ...

Because of the potential importance of ..., we have investigated ...

Because of the economic potential of ..., we decided to study ...

Current work in this laboratory ..., stimulated interest in determining
some of ...

Prompted by ..., we initiated an examination of ...

In view of ..., this study was conducted to examine ...

The finding of ..., led us to reinvestigate ...

A recent report ..., encouraged us to ...

Little attention/effort has been given to ...

... are poorly understood ...

... have been poorly characterized ...

The question have been raised as to whether or not ...

... the question arose...

3、研究内容的表示方法

This article examines ...

This research assessed ...

This study documents ...

The present work has shown ...

This report describes ...

The paper presents ...

Work presented here introduces ...

Our forthcoming studies will establish ...

In this report, we report ...

Here we describe ...

In this report we examine ...

In this report we describe ...

We report here ...

... this is the first report of ...

This is the first report ...

This report contains the first ...

Our results are the first report on ...

We report here for the first time ...

This ..., is the first to ..., reported for ...,

This report documents the first ...

... this is the first time that ,,

The novelty of this research lies in ...

Of particular interest and novelty is ...

The evidence presented in this communication demonstrates ...

The data presented in this report represent ...

The major idea addressed in this studies ...

The emphasis of this study is ...

This study is an attempt to ...

4、研究报告的数量表示方法

..., much efforts has gone into the study of ...

Many research groups have recently been involved with ...

... have received fairly intensive study

... have done a considerable amount of work on ...

Many studies have addressed ...

There have been many investigations into ...

There have been numerous studies ...

A substantial amount of ... information is available on ...

There are only a few reports of ...

Only a few studies have dealt with ...

Only a few studies have been performed on...

... there are very few studies ...

Few studies have involved ...

Few studies have centered on ...

Investigations ... are extremely few ...

A surprisingly limited amount of information exists on ...

Reports on ... are extremely scarce.

... has been the subject of only a limited number of studies.

Information ... is limited.

We found no reports of ...

We know of no report concerning ...

..., no studies ... have been reported ...

There are no reports on ...

no ... have been documented ...

... no information is available concerning ...

No data have been published ...

To date, no reports have appeared concerning ...

no ... is reported ...

None have been reported for ...

... information ... is ... lacking ...

Virtually nothing is known about ...

Little is known of ...

very little actually is known about ...

There is little known about ...

5、注意、兴趣的表示方法

... has not received as much attention ...

Less attention has been paid ...

Relatively little attention has been directed ...

... have received very little attention ...

Little attention has been given to ...

Attention was focused on ...

... has recently received increased attention.

There is currently great interest in ...

... has been the focus of intense research interest.

... has been become a subject of considerable interest.

6、研究正在进行的表示方法

Studies are under way to ...

... are currently under study.

Further work is in progress ...

Further experiments are in progress to ...

Further investigations are in progress to ...

Attempts to ... are currently in progress.

Efforts continue ...

We are presently attempting to determine ...

Further studies ... are being conducted ...

Our laboratory presently is involved with ...

... is being investigated.

7、将来工作的建议的表示方法

Further work is needed ...

Further work is required ...

... is worthy of further study.

Much more research is needed ...

... has to be elucidated.

... have to be determined.

... requires further testing ...

... makes ... worthy of further study.

Further studies are contemplated to ...

Further research is planned to ...

continuing studies will yield further insight into ...

Further research ... may yield...

Further research should explore ...

Further studies should clarify ...

... remains to be determined.

... remain to be investigated, and ... remains to be tested.

... remains to be established.

What remains to be resolved ...

... remains to be shown.

... remains unexplained.

..., it remains unknown.

... remain unanswered ...

8、结论的表示方法

In conclusion, ...

This conclusion is supported ... by ... finding that ...

... leads to the conclusion that ...

二、摘要总结类:

★ Simulations and experiments are carried out on AdeptOne robot.

★ From the simulation and experimental results, the effectiveness and usefulness of the proposed control system are confirmed.

★ This paper addresses the issue of trajectory tracking control based on a neural network controller for industrial manipulators.

In this paper, we present a new and simple control system consisting of a traditional controller for trajectory tracking control of industrial robot manipulators.

★ This paper describes a vision-based navigation method in an indoor environment for an autonomous mobile robot which can avoid obstacles.

★ ★ In this method, the self-localization of the robot is done with a model-based vision system, and a non-stop navigation is realized by a retroactive position correction system.

We present a robust and automatic method for evaluating the accuracy of weed discrimination algorithms. The proposed method is based on

simulated agronomic images and a crop weed discrimination algorithm can be divided into the two following steps. Firstly,.....

Afterwards,....

In this research ,we aim at high precision trajectory tracking control of the industrial robot manipulators using simple and applicable control method.

三、公式表述类：

The dynamic model can be easily derived and expressed systematically with the formulation as follows:

$$\text{Formulation} \quad (1)$$

The detail mathematical description of the network is given by

$$\text{Formulaion} \quad (2)$$

In this research, we select the activation function vector with its individual element being a hyperbolic function as follows.

$$f_j(z_j) = \frac{e^{z_j} - e^{-z_j}}{e^{z_j} + e^{-z_j}} \quad (j = 1, 2, \dots, l) \quad (7)$$

where z_j is the summation of input signals to j th node of the hidden layer and can be given as

$$z_j = [w_{1j} \ w_{2j} \ \dots \ w_{2nj}] \cdot \mathbf{q} \quad (8)$$

四、其他表达：

An industrial manipulator AdepOne is adopted as an experimental test bed.

★Trajectory tracking control simulations and experiments are carried out.

The results demonstrate effectiveness and usefulness of the proposed control system.

★For this reason, we design the neural network controller such that it takes the important part on which the linear controller has shown its limitation and/or powerlessness.

Other advantages of the neural networks often cited are parallel distributed structure, and learning ability.

Theoretically speaking,

System implementation, however, is difficult to perform because of the existence of the uncertainties of....