

## ***Teaching Assistant System Using Artificial Psychology***

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### ***Abstract***

*This article proposes a computer learning system. This system allows an effective conversation between the primary teacher and the student. Based on theories of psychology and theories of artificial psychology, knowledge of learning has been developed. The meaning emotion fundamental theory is that four basic emotions and four types of teaching psychology are defined and the bi-dimensional is based on the theory of dimension emotion. This system gives the teacher mental status and psychological value. Finally, this system was supposed to be used to identify the basis of digital image processing technology.*

***Keywords:*** *Artificial Psychology, Affective Computing, Image Processing, Pattern Recognition, Q-processing, Facial Expression Recognition, B/S structure, Artificial emotion, Intelligent interaction, Psychological Assistive Technology, Aging service.*

### **INTRODUCTION**

The system is a two-level computer teaching system based on artificial psychology and effective computing principles. We developed the system using an interactive image method of HR and image processing and a method of identifying patterns. The system “adheres to the principle of student-centeredness,

they are the subject of recognition and knowledge initiatives”.

The system is by the mental and psychological considered state of the student. Based on image processing technology, it can identify expression and recognize posture expression through the method of recognizing expression facial,

and effectively model psychology based on theory based on emotion and cognitive psychology, psychology, academic psychology and artificial theory. Research can be a model for learning emotions.

The system uses the B / S structure and uses a roaming agent to the transfer of data. Finally, the browser the end of understands includes teacher, and many students the task complete. System devices consist of multiple terminals, servers and one camera for each side.

### ARTIFICIAL PSYCHOLOGY

A new synthetic psychology theory based on artificial intelligence was first introduced, and human psychology was deeply analyzed in the more complex aspects of methods of information, especially in the emotional, will, nature, creation and implementation of artificial intelligence. Previous definitions, purposes, rules, research, content, application program and algorithms were created to create artificial intelligence architectures that promote the deeper and greater development of AI research. [2]

Psychology is a process of learning and mental behavior individual's Then artificial psychology Mental process of artificial intelligence system (AIS) It

resembles a human [10, 11]. That's about artificial cognition Process required for intellectual artifacts Intellectual, learning, autonomous, and those self-evolutionary [11] in psychology there are some or more emphasis. For example, take a look at how cognitive psychology you are investigating the brain works thinking. This includes learning, memory, Perception, language, logic [11]. There is also Developmental psychology considered as individual Adjustment and change at various stages of development This is suitable for the above person Development. There is sports psychology It examines how and how individual performance is affected and how it will affects the performance of an individuals. So Artificial Psychology for the purposes of this paper contains the artificial mental process considered necessary to create intelligent, autonomous, self-evolving, artificially cognitive systems. The AIS must mimic human processes in order to be intelligent.

### RELATED WORKS:

*Understanding of psychological and artificial elements in China:* Psychology is invented and has many practical applications in the artificial sense, including personal service, human genre, human control, inventory, intelligent robots and intelligent first intelligent,

wearable, human exchange, computer and virtual reality. The Pope will become the humanoid first robot in 2015. The large-scale production of the first human robot began with a lot of production and can be followed. It has provided general consumer and soft bank paper developed by robots and human in expression the picture, and the sound system can be set up by a human speech recognition system. It may also encounter the process of feeling and tone, along with the education of human emotions. Emotional for example, when He is near Him, show Him to see Him, then He will come to Him and Receive Him. When they did not know their mother, he played hip hop music and tried to improve the master's mood. They can talk to users. The role of Pepper is the role of a family friend. Thanks to the continuous learning process and the ability to cope with the situation, the robot can play an important role in humanoid business, retail and customer service.

Artificial and psychology artificial emotions are applications in the field of psychology services. Artificial psychology and artificial emotions as discipline are the expansion of artificial intelligence [1]

***Research on the impact of personal education in higher education:*** This article deals with the use of learning resources in higher education. It analyzes the impact of technology-based learning, on how pupils learn and how they teach institutions and institutions. Recent technological developments and the rapid growth of new university technologies have been explored to capture the future of higher education in a world where cadets are studying at university level. Strengthening some of the challenges of key institutions and students, learning how to develop technology, training, support and student management, and finding other forms of research [3]

***Emotional artificial training for automatic control of the production of interactive electrical networks:*** The combination of Psychology and Self-Training including traffic connected with cars. Made up of an agent that is made up of miracles, as well as through Q-Scout Algorithms and Q ( $\lambda$ ) graphics. The confusion question for this question is the new idea and mind preparation Q ( $\lambda$ ). There are two areas and strong forces in various conditions of IEEE in China and parts of Q ( $\lambda$ ) -china and China. The method of use defines wrongs with different locations. Guaranteed reliability

and achievement of the results of Edward recommended modeling and the benefits of their benefits, such as Aloronds,  $Q(\lambda)$  - Learners,  $R(\lambda)$ , Sarsi, Sarsa ( $\lambda$ ) and PID. [4]

**FACIAL EXPRESSION RECOGNITION**

According to the scientific study, the facial expression is considered as the most efficient way to analyze the different emotions and intentions communication. Indeed, affect has a strong and bright future of research in ITS8 and also of psychological studies over the past several decades. In this view, the principal benefit of our project is to include this approach in order to distinguish the best learning style and emotional state of a learner during a

practical work session due to the input sensing device that is webcam. [8]

**IMAGE PROCESSING**

In classical image processing systems, an image is preprocessed to remove noise, segmented to produce close object boundaries, analyzed to extract a representative feature vector, and compared to ideal object feature vectors by a classifier to determine the nearest object classification and its associated confidence level. [7]

**PATTERN RECOGNITION**

Pattern recognition is a branch of machine learning that focuses on the recognition of patterns and regularities in data, although it is in some cases considered to be nearly synonymous with machine learning. [5]

*Table:-1*

Sl. No.	AUTHORS	APPROACH	METHODS	PARAMETERS	ADVANTAGES	DIS-ADVANTAGE
1	R.W. Picard Affective Computing MIT Press, London (1997)	Machine emotion generation	Artificial psychology programming language, human-machine harmony multichannel interface.	Affective image or Affective text	Both image and text is considered	Concentrates on only image and text and not on videos and audios.

2	<p><b>1.1 Wang, Z.</b> <b>1.2 Information Engineering School, UST Beijing, Beijing 100083, China</b></p>	<p>Integrated mentality - excellent access to science research for human mind</p>	<p>Cybernetics</p>	<p>Effective working of the human brain</p>	<p>Most of the conversations from the datasets give correct output.</p>	<p>Unstable state of the brain would lead to wrong results</p>
3	<p>Stefan Popenici  Charles Darwin University</p>	<p>Examine the impact of intellectual learning in teaching and education</p>	<p>human-machine interface, advanced algorithms, machine learning</p>	<p>Interventions in Automated Teaching</p>	<p>This model outperforms a deep learning based model.</p>	<p>Not favourable for all levels of education.(lower)</p>
4	<p>YU Tao  South China University of Technology</p>	<p>Artificial emotional Q-learning for automatic generation control of interconnected grids.</p>	<p>Q-learning, Q(<math>\lambda</math>)-learning, R(<math>\lambda</math>), Sarsa, Sarsa(<math>\lambda</math>) and PID algorithms</p>	<p><b>grid</b> with multi-constrained QoS routing problems</p>	<p>Large variety of datasets are considered.</p>	<p>Complexity level is high due to routing problems</p>

## CONCLUSION

Artificial intelligence that is used today is considered "weak AI" because it is usually designed to perform better than just one or two specific tasks, as compared to humans. At this point, however, there are ideas about developing "strong AI" or a super-intelligence in the controversial future of AI research, which has the potential to

improve many or all cognitive functions compared to humans.

AI security research is a priority for some scientists worried about potential dangers, if such advanced technology is in the wrong hands, although others still question the possibility of obtaining a strong human-level AI.

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