Jessica Braganza

FI7112151

Bè Lomp 2

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Scop Assignment 2
16 Explain neuro fuzzy hybrid, neuro genetic hybrid and fuzzy genetic
hybrid system?
Ans a) Neuro Fuzzy Hybrid System:
A system that determines its parameters by processing data sample
with the help of a learning algorithm takes from neural network
theory.
A hybrid intelligent system that integrates ANN and fuzzy logic
useful in performing mapping with some degree of impression.
Easy to conceptualize and user friendly way to design non-lineau
controllers large amount of academic research is also available.
b) Neuro-genetic Hybrid System
Genetic algorithm are used to encode the parameters of neural
петионка on a large male string of properties of a netrocal.
i.e. chamosomes is generated.
CIR-NN are capable of locating the neighbourhood of the optimal
solution, generales better population from good parents
used in face-secognition animal controls, etc.
a) daday
c) Fuzzy Genetic Hybrid System:
we use genetic algorithms to develop the best optimized set of sulas
to be used for fuzzy inference systems
Regular use of GIA is in fuzzy classification systems.
in this system, an object is considered and classified on the basis
in this system, an object is considered attributes.
of the linguistic values of the object attributes.
The challenging task is to find out appropriate set of fuzzy
ruley .

as Define bias and threshold.
when calculating the output of a value, the inputs are multiplied
by weights and a bias value is added to the result.
by weights and a bias value is added to left or via
The bias allows the activation function to be shifted to left or right
to better fit the data.
Biases only influence the output values, it doesn't interact with
the actual input data.
the same of the same has a free distill and production to the first the
Threshold
It is a peak value on a break through point after which certain
epecific actions are performed by the models.
2/ write short note en important terminologies on ANN
Ans 1) The terrinologies in ANN are 1: had and and
(i) Node / unit / call of the grade of the same
(ii) Connection leage (link
(iii) Connection strength / weight the state of all the state of the s
(iv) Node output and and and administration determined to the date of the date
ay The input to the network are represented by the mathematical
symbol xn.
3) Each of these inputs are multiplied by a connection weight wn.
9um = wire + w2 x2 + + wn xn
At These products are simply summed, fed through the transfer
function to generale a result and then output.
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