

Linearty Seperebable?
perceptions can only classify linearly seperabale cases
* lots Say we want to classify. 9 Set of data into a Group (A) (CA)
or group B (OB).
* it GA and GB are ineary seperable There exist a seperating hyperplane
between the tan groups which is linear
in nature
deviding between GA and GB.
0.40 1.00
Ex: consider a cons
2003
O GA
3 GB
(A) (B) adput (OR)
O O O O O O O O O O O O O O O O O O O

* Mattenatical Review for Neural networks.
System: is a Collection of elements of Components that are organized for a Common Purpose.
Components that are organized for a
Common Josephore
input > 5ystem , output
Systems have structure, defined by. Components / elements and their composition.
and the state of t
- Systmes have behaviour, which involves
inputs, processing and outputs of material energy, information or data.
- systems have interconnectivity the various
parts have structural or functional
relationships to each other.
- linear System:
linear System is a maltenatical model of a system based on the use of a linear
operator
input
linear operator.







