

- i. For input layer  $u \in D_0$ :

$$\text{NET}_{u,i} : \mathbb{R} \rightarrow \mathbb{R}, \text{net}_{u,i} = \text{ID}_{u,i} \quad (17)$$

- ii. For hidden layers  $u \in D_1 \cup \dots \cup D_{l-1}$ :

$$\begin{aligned} \text{NET}_{u,i} : \mathbb{R} \times \mathcal{F}(\mathbb{R})^{n_{u-1}} &\rightarrow [0,1], \\ \text{net}_{u,i} &= \text{min}_{\text{max}_{j \in \{1, \dots, n_{u-1}\}}} \{ \text{NF}(R, \text{NF}(R_{j,i})) \}, \end{aligned} \quad (18)$$

where min is a  $\wedge$ -norm,

- iii. For output layer  $u \in D_l$ :

$$\begin{aligned} \text{NET}_{u,i} : [0,1] \times \mathcal{F}(\mathbb{R})^{n_{u-1}} &\rightarrow \mathcal{F}(\mathbb{R}), \\ \text{net}_{u,i} : \mathbb{R} &\rightarrow [0,1], \\ \text{net}_{u,i}(x) &= \text{min}_{\text{max}_{j \in \{1, \dots, n_{u-1}\}}} \{ \text{defuzz}_{u,i}(\text{NF}(R, \text{NF}(R_{j,i}))) \}, \end{aligned} \quad (19)$$

where min is a  $\wedge$ -norm.

If the fuzzy sets  $\text{NF}(R, \text{NF}(R_{j,i})) \in D_1 \cup \dots \cup D_{l-1}$  and  $\text{NF}(R_{j,i})$  are monotonic on their support, and  $\text{NF}^{-1}(R, \text{NF}(x)) = a \in \mathbb{R}$  such that  $i = \text{NF}(R, \text{NF}(a))$  then propagation function  $\text{net}_{u,i}$  of an output layer  $u \in D_l$  can alternatively be defined as:

$$\text{net}_{u,i}(x) = \begin{cases} 1 & \text{if } x = \frac{\sum_{j=1}^{n_{u-1}} \text{NF}(R_{j,i}) \cdot \text{NF}(R_{j,i})}{\sum_{j=1}^{n_{u-1}} \text{NF}(R_{j,i})} \\ 0 & \text{otherwise} \end{cases} \quad (20)$$

To compute the output  $a_u$  in this case  $a_u = a$ , with  $\text{net}_{u,i}(x) = 1$ .

- 6d) The external input function (Def:  $D_0 \rightarrow \mathbb{R}$ ) defines as:

$$E(x) = \begin{cases} E_{u,i} & \text{characteristic } u \in D_0 \\ \text{undefined} & \text{otherwise} \end{cases} \quad (21)$$

### 3. STRUCTURE of an MCLFF-NFCLASS MODEL

A Multi-NFClass represents a fuzzy classifier  $F_u$  with a set of class labels  $C = \{c_1, c_2, \dots, c_m\}$ . Elements of the model are treated as neurons: input, hidden, and output neurons. A network representation of a Multi-NFClass model is a fuzzy perceptron model with the following specifications:

- 1) The input layer processes input data. The network structure is a mapping,  $N : D \times D \rightarrow \mathcal{F}(\mathbb{R})$  such as [19], that is given by, [Nakashima et al. (2007)] and [Sriwat et al. (1997)]:

$$\text{NF}(u, v) = \begin{cases} \text{NF}(R_{u,i} = a_i) \wedge (v = R_{u,i}) \\ \text{NF}(R_{u,i} = R_{u,j}) \wedge (v = a_i \wedge \text{max}(R_{u,i})) \\ \text{undefined} & \text{otherwise} \end{cases} \quad (22)$$

where  $i \in \{1, n\}$ ,  $k \in \{1, r\}$  and  $j \in \{1, m\}$ .

- 2) The neurons of the hidden layer represent membership functions, fuzzy rules and weighted rules, [Hendrick et al. (2012)], [Hsu and Tzeng (2007)]. The associations of fuzzy rules become weights for the rule neurons in the hidden layer. The consequence of a weighted rule is connecting with the output layer, [Dorot and Johannes et al. (2003)]. An activation function  $\text{NF}(R)$  is used to compute the activation  $a_u$  that is used to make connections between:

- i. Inputs neuron  $a_i$  and MF's  $\mu$ .

- ii. MF's  $\mu$  and rules neuron  $R_u$  by use  $\wedge$ -norm.

- iii. Rules neuron  $R_u$  and weighted rules.

Next, the last layer of hidden layers has multi independent fuzzy output that connects weighted rules with subchains in order to obtain model class with different subchain as an output layer. See Fig. 1.

- 3) The consequence of an output layer calculated by the activation value of a given classes. The consequences of output-layer depending on the maximum function. After the calculation of an activation of output neurons, the neuron with the highest activation is chosen as result of classification that depending on equation (18) as following:

$$a_u = D_u(a_u) = \text{defuzz}(a_u) = \text{height}(a_u), \quad \forall u \in D_l \quad (23)$$

where, we defuzzify the output fuzzy set by a defuzzification function that calculates the height of the output fuzzy set, [Aul and Choi (2004)] and [Hessman (2010)].

Improving rules set is often understood as an increase of classification accuracy, reducing the model complexity or a combination of these two approaches. A large number of parameters are often needed to obtain high accuracy, but it sometimes causes a difficulty in understanding. Reducing the number of parameters sometimes increases classification accuracy, because the model with a large number of parameters can over fit the learning data and lose the generalization variable.

### 4. NEURAL NETWORK with FUZZY BAYESIAN CLASSIFICATION

Let  $C$  denote a class characteristic with a finite domain  $\text{dom}(C)$  of its classes, and  $V_1, \dots, V_n$  a number characteristic with a finite domains  $\text{dom}(V_1), \dots, \text{dom}(V_n)$ .

A pattern  $p$  is described by its characteristic values  $v_i^p \in \text{dom}(V_i)$ ,  $i = 1, \dots, n$ ,  $v_i^p \in \text{dom}(V_i)$ . Bayes classifiers perform a likelihood index of classification where they compute the class of a new pattern  $p$  by evaluating each class from  $\text{dom}(C)$ . Formally,  $\forall c \in \text{dom}(C)$  they evaluate the likelihood as:

$$P(C = c | V_1 = v_1^p, V_2 = v_2^p, \dots, V_n = v_n^p). \quad (24)$$

That a pattern with characteristic values in the given new pattern  $p$  has the class  $c$ , to improve readability, we may use  $P(C = v_1^p, \dots, v_n^p)$  like a likelihood for  $P(C = C = v_1^p, \dots, v_n^p)$ , also  $P(C = c, \dots, c)$  like a reduction for  $P(C = C = c, \dots, c)$ . Moreover, the number of training patterns is often too small to give a good evaluation for all these values.

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