Neural Networks A Classroom Approach By Satish Kumar Pdf Free Downloadgolkes

The structure of the neural networks help to solve the practical, non linear, decision making problems easily.

3.2 Related work

Accurate and consistent prediction of resource requirements is a crucial component in the effective management of software projects. Despite the amount of researches over the last 20 years, the software community is still significantly challenged when it comes to effective resource prediction [6].

As a main stream, research efforts have focused on the development of quantitatively based techniques, in an effort to remove or reduce subjectivity in the estimation process. Examples of this work include the original parametric and regression-based models: Function Points Analysis (Albrecht, 1979), COCOMO Models (Boehm, 1981; Boehm et al., 2000), and the Ordinal Regression Model (Sentas et al., 2005).

However, other techniques for exploratory data analysis, such as clustering, case-based reasoning and ANN have been effective as means of predicting software project effort. Zhong et al. (2004) describe the use of clustering to predict software quality. A case-based approach called ESTOR was developed for software effort estimation (Vicinanza et al., 1990). They have shown that ESTOR is comparable to a specialist and performs significantly better than COCOMO and Function Points on restricted samples of problems. Some research works have used artificial neural networks to produce more accurate resource estimates Gray and MacDonell, 1997; Witting and Finnie, 1997). In Karunanitthi et al. (1992), neural networks are used to predict software reliability. They conducted experiments with both feed-forward and Jordan networks and the cascade correlation learning algorithm. Witting and Finnie (1994) describe their use of the back propagation learning algorithm on a multilayer perceptron to predict development effort. The work of Samson et al. (1997) uses an Albus multiplayer perceptron in order to predict software effort on the Boehm's COCOMO dataset and compared linear regression with a neural networks approach.

Srinivazan and Fisher (1995) also reported the use of a neural network with back propagation learning algorithm and found that the neural network outperformed other techniques and led to results of MMRE = 70%. However, it is vague how the dataset was divided for the training and the validation purposes.

Khoshgoftaar et al. (2000) presented a case study considering real time software to predict the testability of each module from source code static measures. They consider ANNs as promising techniques to build predictive models, because they are capable of modeling nonlinear relationships.

The interest on the use of ANNs has grown in past years. ANNs have been successfully applied to several problem domains, in areas such as medicine, engineering, geology, and physics, generally to design solutions for estimate, classification, control problems, etc. They can be used as predictive models because they are modeling techniques capable of modeling complex functions. Machine learning algorithms such as Artificial Neural Networks offer a means of addressing the problem of many factors. They are effective when we have a relatively large number of data points as well as a large number of factors.

3.3 A Comparison based on survey of ANN based effort prediction techniques

We have identified 40 studies in the field of ANN based effort estimation. These papers were published during the time period 2000 to 2013. Based on literature survey, a comparative analysis has been done as shown in table 2. After computing the effort by various techniques, evaluation criteria Magnitude-Relative-Error (MRE) is used to compare the results obtained from various methods which is shown in table 3. The results are then also shown using line chart as given in figure2.

ISSN: 2319-1120 /V3N3: 193-200 © IJAEST

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Hello,I would like to know if it's possible to use the basic VTP-IP Tunnel functionality within a Syslog or similar remote-monitoring tool? I would like to use this functionality to replace the old Cisco device with a Netgear R7000 device.My R7000 would be able to read the basic configuration of my Cisco device (SSID, IP, MAC, etc.) I will keep my old Cisco device but I would like the Netgear R7000 to act as my main router and use VTP-IP tunneling to send out my Netgear devices' configuration

(VTP) to my Cisco device.Multicenter Phase I study of the combination of lenalidomide plus high-dose cytarabine in the treatment of newly diagnosed acute myeloid leukemia in older patients. Relapsed and refractory acute myeloid leukemia (AML) is associated with dismal outcomes, but to the authors' knowledge, the combination of the immunomodulatory drug lenalidomide plus high-dose cytarabine (HD-Ara-C) has not been studied in this setting. This phase I dose-escalation study enrolled 63 patients with newly diagnosed AML. The primary endpoint was the maximally tolerated dose (MTD) of the lenalidomide-HD-Ara-C regimen. Other endpoints were response and safety. The MTD was lenalidomide 30 mg on days 1 to 14 plus HD-Ara-C 12 g/m(2) on days 3, 4, and 5. Cytogenetics, TP53 mutations, FLT3 mutations, and NPM1 mutations were assessed. No complete responses or complete response with incomplete hematologic recovery were observed. However, a good partial response rate of 14% (95% CI: 8% to 25%) was observed in the 17 evaluable patients with favorable-risk AML. An additional 4 of 19 patients with intermediate-risk AML achieved partial responses, resulting in a 36% response rate (95% CI: 20% to 56%). Two-thirds of the patients had adverse events grade 3 or 4. The most common grade 3 to 4 adverse event was venous thromboembolism (13%). Six patients had aspartate aminotransferase and/or alanine aminotransferase levels >5 times the upper limit of normal (n = 4), and 1 had 82157476af