Abstract

Agile environment checks Organization’s capacity or flexibility to accept the changes. Working in agile development needs to check their process, effect in the collaboration with other processes present in the enterprise solution. But agile environment is unpredictable. Hence to measure the process agileness, soft computing approach is used. In this paper, Hybrid Neuro-fuzzy approach is proposed to measure agility of business process with respect to the architectural level. This approach uses different weighting algorithm, for fully connected neural network evaluated on the basis of pairwise comparison of process type and architecture type. This method can be used to take check importance or effect of change of process used in the software solution used in the industry. In case of changing environment, this method will give a selection path to expert for selection of changes in the enterprise solution.

References

Intelligence Application of fuzzy models in retrieval of optimal decision School of Engineering Blekinge Institute of Technology


9. Chapter I Ajith Abraham Hybrid Soft and Hard Computing Based Forex Monitoring Systems


18. Erich L. Kaltofen, Arne Storjohann The Complexity of Computational Problems in Exact


37. Niles N. Karnik, Jerry M. Mendel (December 1999) Type-2 Fuzzy Logic Systems IEEE

Transactions On Fuzzy Systems, Vol. 7, No. 6,


44. Robert Fuller Eotvos Lor (2001) Neuro-Fuzzy Methods for Modelling & Fault Diagnosis Lisbon Budapest VACATION SCHOOL, August 31 and September 1


52. S.Sanyal, S.Iyeng (1993) Defuzzification Method For A Faster And More Accurate
Control IEEE TENCON / Bcijn


58. Tzung-Pei Hong, Chai-Ying Leeb (1996) Induction of fuzzy rules and membership functions from training examples Fuzzy Sets and Systems 84 (1- 33 -47)


61. Yi-Hong Tseng, Ching-Torng Lin (2011) Enhancing enterprise agility by deploying agile drivers, capabilities and providers Information Sciences 3693–3708


63. Zixiong Peng, Xiaowei Chen Uncertain Systems are Universal Approximators


Index Terms

Computer Science Software Engineering

Keywords

Business Process Agility, Neural Network, Agile development