(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/04/2019
(21) Application No.201941014136 A
(43) Publication Date : 26/04/2019

(54) Title of the invention : METHOD FOR DETECTING ANTI PATTERNS IN WEB SERVICES AND BUSINESS PROCESSES

(51) International classification :G06F11/00
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)Prof. CH. MALLIKARJUNA RAO
Address of Applicant :Professor in CSE Department, GRIET, Bachupally, Hyderabad- 500090, Telangana, India. Telangana India
2)Dr. G. RAMESH
3)N. MADHUSUDHANA REDDY
4)P. PAVAN KUMAR
(72)**Name of Inventor :**
1)Prof. CH. MALLIKARJUNA RAO
2)Dr. G. RAMESH
3)N. MADHUSUDHANA REDDY
4)P. PAVAN KUMAR
5)Dr. A. SAI HANUMAN
6)Dr. B SANKARA BABU
7)Dr. D.V. LALITA PARAMESWARI

(57) Abstract :
Exemplary embodiments of the present disclosure are directed towards a method for detecting anti patterns in web services and business processes comprising of: a metric suit detection phase which takes place by static analysis and reflection of web service (WS) and business process (BP) anti-patterns source codes which are collected from anti-pattern based detection methods; creation of training sets and testing sets for web service (WS) and business process (BP), and a Support vector machine (SVM) classifier is built with a training data, and then testing data is used to predict unlabeled classes; extraction of process with a business process model files; and business process configuration files where post extraction Business process anti-pattern metrics map BPM and anti-pattern metrics map WSM is initialized as an input; and detection of anti-patterns having a training phase and the training is given to support vector machine (SVM) leading to classification of web services and business processes into anti-patterns and non-anti-patterns.

No. of Pages : 25 No. of Claims : 10