

(54) Title of the invention : A SOCIAL ENGINEERING ATTACK DETECTION METHOD BASED ON NATURAL LANGUAGE PROCESSING

<p>(51) International classification :G06N0003040000, G06N0003080000, G06N0020000000, G06F0040400000, G06F0040205000</p> <p>(86) International Application No :NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)R. Sruthi Sutharsana Address of Applicant :ACE ENGINEERING COLLEGE, Ankushapur, Ghatkesar, Telangana 501301 ----- 2)Dr. Kiran Malik 3)Talluri Hari Babu 4)Haleema Bushra 5)Dr. Yalla Jeevan Nagendra Kumar 6)Dr. Ch. Asha Immanuel Raju 7)Dr.I.Lakshmi 8)Shiburaj Pappu 9)Dr. G. JawaherlalNehru Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)R. Sruthi Sutharsana Address of Applicant :ACE ENGINEERING COLLEGE, Ankushapur, Ghatkesar, Telangana 501301 ----- 2)Dr. Kiran Malik Address of Applicant :Matu Ram Institute of Engineering & Management (MRIEM), near Jat College, Model Town, Rohtak, Haryana 124001 ----- 3)Talluri Hari Babu Address of Applicant :Mallareddy college of engineering & Technology, Maisammaguda, Dhulapally (post via Kompally), Secunderabad-500100,TS ----- 4)Haleema Bushra Address of Applicant :Keshav Memorial Institute of Technology, 17-2-181/58/1 , Al Jabri Colony,Yakutpura,Hyderabad,Telangana.500023 ----- 5)Dr. Yalla Jeevan Nagendra Kumar Address of Applicant :Gokaraju Rangaraju Institute of Engineering and Technology, near Jat College, Model Town, Rohtak, Haryana 124001 ----- 6)Dr. Ch. Asha Immanuel Raju Address of Applicant :Andhra University College of Engineering, Andhra University, Visakhapatnam, Andhra Pradesh, India, 530003. ----- 7)Dr.I.Lakshmi Address of Applicant :Hindustan institute of technology and science, Rajiv Gandhi Salai (OMR), Padur, Kelambakkam, Tamil Nadu 603103 ----- 8)Shiburaj Pappu Address of Applicant :Rizvi College of Engineering, New Rizvi Educational Complex, Off-Carter Road, Bandra West, Mumbai – 400050 ----- 9)Dr. G. JawaherlalNehru Address of Applicant :St.Martin's Engineering College Sy. No.98 & 100, Dhulapally Road, Dhulapally, Near Kompally, Medchal–Malkajgiri district Secunderabad-500 100. Telangana, India. -----</p>
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(57) Abstract :

Among the many types of cyber attacks, social engineering is among the most common and simple. The majority of computer system attacks, according to research, relied on social engineering techniques. We have created a system that can identify social engineering attacks using NLP and artificial neural networks, taking into account the significance of developing areas like cyber security and machine learning. This method can be used to identify conversations as potential social engineering attacks, whether they take place online or in offline texts. An artificial neural network is employed to categorize potential attacks after the conversation text has been parsed and checked for grammatical errors using natural language processing techniques. A real dataset and a semi-synthetic dataset were used to evaluate the proposed method, and the results showed very high accuracy. There have also been comparisons in both datasets using alter-native classification methods.

No. of Pages : 11 No. of Claims : 5