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(71)Name of Applicant :

1)SWAMI VIVEKANANDA UNIVERSITY

Address of Applicant :Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121, India. Barrackpore -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Dr. Rituparna

Address of Applicant :SWAMI VIVEKANANDA UNIVERSITY
Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121, India. Barrackpore -----

2)Mr. Abhishek Dhar

Address of Applicant :SWAMI VIVEKANANDA UNIVERSITY
Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121, India. Barrackpore -----

3)Mr. Saurabh Adhikari

Address of Applicant :SWAMI VIVEKANANDA UNIVERSITY
Telinipara, Barasat - Barrackpore Rd, Bara Kanthalia, West Bengal – 700121, India. Barrackpore -----

4) Prof. (Dr.) Subhranil Som, Principal,

Address of Applicant : BHAIRAB GANGULY COLLEGE
2, Feeder Rd, Beehive Garden, Belghoria, Kolkata,
West Bengal - 700056, India -----

(57) Abstract :

This paper presents an approach to power system dynamic security assessment" using decision tree classifier". A standard pattern recognition framework", has been followed in order to ensure that real-time implementation of the proposed framework is feasible. With the aim of recognizing the vulnerability" associated with various pre-contingency operational circumstances," the Security Classifier (SC) was created and trained with operational data obtained from developed computer model of the power system. The proposed SC was successfully tested on IEEE 57-bus benchmark system to recognize and classify wide variety of operating conditions based on their vulnerability to dynamic insecurity" post major contingencies.

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