inPASS
Indian Patent Advanced Search System

(http://ipindia.nic.in/index.htm)

INTELLECTUAL
PROPERTY **INDIA**
PATENTS | DESIGNS | TRADE MARKS
GEOGRAPHICAL INDICATIONS

(http://ipindia.nic.in/ind

Patent Search

Invention Title	MULTIFUNCTION HEAT TRANSMISSION SIMULATOR WITH AI AND MACHINE LEARNING
Publication Number	38/2021
Publication Date	17/09/2021
Publication Type	INA
Application Number	202131039493
Application Filing Date	31/08/2021
Priority Number	
Priority Country	
Priority Date	
Field Of Invention	COMPUTER SCIENCE
Classification (IPC)	G06N0020000000, B22D0041000000, G09B0023300000, G01M0007080000, H02G0001060000

Inventor

Name	Address	Country	Nat
Dr.Rabinarayan Satpathy	Professor in CSE (FET) and Director of the office of the VC, Sri Sri University, Cuttack, Odisha, India. Pin Code: 754006	India	Indi
Mr.A.Sankaran	Assistant Professor, Department of Marine Engineering, Sri Venkateswara College of Engineering, Pennalur, Sriperumbudur, Tamil Nadu, India. Pin Code:602117	India	Indi
Dr.Anurag Aeron	Associate Professor, Department of Computer Science and Engineering, DIT University, Dehradun, Uttarakhand, India. Pin Code:248001	India	Indi
Ms.Sujata Panda	Sr. Faculty, Department of Computer Science and Engineering, Divine Institute of Engineering & Technology, Poda Astia, Baripada, Mayurbhanj, Odisha, India. Pin Code:757049	India	Indi
Mrs.Darshana A Naik	Assistant Professor, Department of Computer Science and Engineering, Ramaiah Institute of Technology, Bangalore, Karnataka, India. Pin Code:560054	India	Indi
Mrs.Reddy Anuradha	Assistant Professor, Department of CSE, Malla Reddy Institute of Technology and Science, Maisammaguda , Dhulapally, Secunderabad, Telangana, India. Pin Code:500010	India	Indi
Dr.K.G.S.Venkatesan	Professor, Department of CSE, MEGHA Institute of Engineering and Technology for Women, Hyderabad, Telangana, India. Pin Code: 501301	India	Indi
Dr.Sushma Jaiswal	Assistant Professor, Department of Computer Science & Information Technology (CSIT), Guru Ghasidas Vishwavidyalaya (A Central University), Koni, Bilaspur, Chhattisgarh, India. Pin Code: 495009	India	Indi
Mr.Tarun Jaiswal	Research Scholar, Department of Computer Application, National Institute of Technology (NITRR), Raipur, Chhattisgarh, India. Pin Code:492010	India	Indi
Mr.Hanumaji Kantari	Associate Professor, Department of EEE, Malla Reddy Institute of Engineering and Technology, Maisammaguda, Secunderabad, Telangana, India. Pin code: 500100	India	Indi

Applicant

Name	Address	Country	Nat
Dr.Rabinarayan Satpathy	Professor in CSE (FET) and Director of the office of the VC, Sri Sri University, Cuttack, Odisha, India. Pin Code: 754006	India	Indi
Mr.A.Sankaran	Assistant Professor, Department of Marine Engineering, Sri Venkateswara College of Engineering, Pennalur, Sriperumbudur, Tamil Nadu, India. Pin Code:602117	India	Indi
Dr.Anurag Aeron	Associate Professor, Department of Computer Science and Engineering, DIT University, Dehradun, Uttarakhand, India. Pin Code:248001	India	Indi
Ms.Sujata Panda	Sr. Faculty, Department of Computer Science and Engineering, Divine Institute of Engineering & Technology, Poda Astia, Baripada, Mayurbhanj, Odisha, India. Pin Code:757049	India	Indi
Mrs.Darshana A Naik	Assistant Professor, Department of Computer Science and Engineering, Ramaiah Institute of Technology, Bangalore, Karnataka, India. Pin Code:560054	India	Indi
Mrs.Reddy Anuradha	Assistant Professor, Department of CSE, Malla Reddy Institute of Technology and Science, Maisammaguda , Dhulapally, Secunderabad, Telangana, India. Pin Code:500010	India	Indi
Dr.K.G.S.Venkatesan	Professor, Department of CSE, MEGHA Institute of Engineering and Technology for Women, Hyderabad, Telangana, India. Pin Code: 501301	India	Indi
Dr.Sushma Jaiswal	Assistant Professor, Department of Computer Science & Information Technology (CSIT), Guru Ghasidas Vishwavidyalaya (A Central University), Koni, Bilaspur, Chhattisgarh, India. Pin Code: 495009	India	Indi
Mr.Tarun Jaiswal	Research Scholar, Department of Computer Application, National Institute of Technology (NITRR), Raipur, Chhattisgarh, India. Pin Code:492010	India	Indi
Mr.Hanumaji Kantari	Associate Professor, Department of EEE, Malla Reddy Institute of Engineering and Technology, Maisammaguda, Secunderabad, Telangana, India. Pin code: 500100	India	Indi

Abstract:

The present invention discloses a multifunction heat transmission simulator with AI and Machine Learning based modules and method thereof. The simulator includes, bu limited to, a housing of a simulator is provided with a base having an impact surface, which is mounted to a heat exchanger; a spring-loaded supporting unit mounted to t base, provided with a resilient rod, which is having a first end and a second end, wherein the first end is secured to the base; and a processing unit with a plurality of senso coupled to the heat exchanger to provide feedback of the varied operations relating to the vibrations induced by an impactor provided with the assembly. Accompanied D [FIG. 1]

Complete Specification

Description:

[001] The present invention relates to the field of the multifunction heat transmission simulator, heat exchanging analysis method, and programming techniques. The invention more particularly relates to a multifunction heat transmission simulator with artificial intelligence interface (AI) and Machine Learning based modules and meth thereof.

BACKGROUND OF THE INVENTION

[002] Low-temperature multiple-effect heat exchanger is the complex technique in main flow current and that heat isothermal technology is parallel to the process, whic develops also very fast. In the light operational process in heat exchanger, evaporation of water is concentrated, has the tendency at heat transfer tube surface scale, so material and other resources will add Scale inhibitors, suppresses the fouling in operational process. The control quality of performance of anti-sludging agent and add-c directly affects the scaling rate of heat exchange surface in vaporizer.

[003] Further, the scale inhibitors of current heat exchangers use are all generally external import, and cost is relatively high. If the professional use new scale inhibitors scheme, the way of securing point is in the enterprising Mobile state simulation test of packaged unit, fully verifies suitability, stability, the scale inhibition ability of this S inhibitors under these processing condition and determines optimal addition dosage by simulation test. Actual scaling rate can be subject to the impact of the series of factors such as water quality, temperature, heat transfer tube surface property, spray flow, performance of anti-sludging agent, concentration, make simulation test conclusion really credible. dynamic analog device must the true virtual condition that reflects the extra-large light system of industry

[View Application Status]

Page last updated on: 26/06/2019