



## CHAROTAR UNIVERSITY OF SCIENCE AND TECHNOLOGY

### Criteria 3

#### Research, Innovations and Extension

<b>Metric 3.4.3</b>	<b>Number of Patents published/awarded during the last five years</b>
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### Supporting Documents

<b>1</b>	<b>E-copies of the Award Letters / Patents (Year : 2019-20)</b>
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# **Faculty of Technology & Engineering**

(12) PATENT APPLICATION PUBLICATION

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(19) INDIA

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(43) Publication Date : 10/04/2020

(54) Title of the invention : SOPES: METHOD, APPARATUS, SYSTEM, PROTOCOL AND PROCESS OF SELF ORGANIZED EMERGENCY SERVICES

(51) International classification :H04W0004900000,  
G06Q0020060000,  
H04N0019170000,  
H04L0012660000,  
G01N0029440000

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Filing Date :NA  
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Filing Date :NA

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(57) Abstract :

This patent disclosure describes the invention of SOPES: Self Organized Protocol for Emergency Services. The invention relates to creating a system and protocol for self organized emergency services deliveries. Delivering emergency services to patients in need, in near real time, via ambulances is vital. The communication, co-ordination and orchestration of various components like software, hardware and networks is essential. Further this gets amplified whenever disaster occurs. This problem is usually addressed with a centralized system for sending ambulances to patients in need. However this suffers from issues like high latency. This patent disclosure presents a novel technique which utilizes de-centralized, distributed, self organized approach. This invention uses the concept of self organization of artificial intelligence, thus no global knowledge exists, only local interactions among agents and hence, thereafter a structure emerges. This enables faster decision making, and near real time responses. Thus improving the time and reducing latency, and improving the overall quality of emergency service delivered to needy patients. Implementation upon block chain remains a future scope for this invention and product. As a blockchain will make this distributed, encrypted and finally very secure. 1.1 Keywords: Self organization, ACO, emergency services, system, process,



No. of Pages : 16 No. of Claims : 5

**FORM 1**  
**THE PATENTS ACT, 1970**  
**(39 of 1970)**  
**&**  
**THE PATENTS RULES, 2003**  
**APPLICATION FOR GRANT OF PATENT**  
 [See sections 7,54 & 135 and rule 20(1)]

(FOR OFFICE USE ONLY)

Application No.: .....  
 Filing Date: .....  
 Amount of Fee Paid: .....  
 CBR No.: .....  
 Signature: .....

**I. APPLICANT(S):**

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**3. TITLE OF THE INVENTION: SOPES: Method, Apparatus, System, Protocol and Process of Self Organized Emergency Services**

**4. ADDRESS FOR CORRESPONDENCE OF APPLICANT / Telephone No.:**  
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**5. PRIORITY PARTICULARS OF THE APPLICATION(S) FILED IN CONVENTION COUNTRY:**

Sr.No.	Country	Application Number	Filing Date	Name of the Applicant	Titlte of the Invention
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**6. PARTICULARS FOR FILING PATENT COOPERATION TREATY (PCT) NATIONAL PHASE APPLICATION:**

International Application Number	International Filing Date as Allotted by the Receiving Office
PCT//	01/01/1900 00:00:00

**7. PARTICULARS FOR FILING DIVISIONAL APPLICATION**

Original (first) Application Number	Date of Filing of Original (first) Application
	01/01/1900 00:00:00

**8. PARTICULARS FOR FILING PATENT OF ADDITION:**

Main Application / Patent Number:	Date of Filing of Main Application
	01/01/1900 00:00:00

**9. DECLARATIONS:**

(i) Declaration by the inventor(s)

I/We ,Dr. Ratnadeep R. deshmkh,Dr. Pramod B. Patil,Mr Kanchan S Bhagat,Dr. Dnyaneshwar K Kirange,Dr. Shubhangi D patil,Dr. Jitendra P Chaudhari,Mohammed Laeeq, is/are the true & first inventor(s) for this invention and declare that the applicant(s) herein is/are my/our assignee or legal representative.

(a) Date: -----

(b) Signature(s) of the inventor(s): .....

(c) Name(s): Dr. Ratnadeep R. deshmkh,Dr. Pramod B. Patil,Mr Kanchan S Bhagat,Dr. Dnyaneshwar K Kirange,Dr. Shubhangi D patil,Dr. Jitendra P Chaudhari,Mohammed Laeeq

**(ii) Declaration by the applicant(s) in the convention country**

I/We, the applicant(s) in the convention country declare that the applicant(s) herein is/are my/our assignee or legal representative.

(a) Date: -----

(b) Signature(s) : .....

(c) Name(s) of the singnatory: Dr. Ratnadeep R. deshmkh,Dr. Pramod B. Patil,Mr Kanchan S Bhagat,Dr. Dnyaneshwar K Kirange,Dr. Shubhangi D patil,Dr. Jitendra P Chaudhari,Mohammed Laeeq,Dr. Ratnadeep R. deshmkh,Dr. Pramod B. Patil,Mr Kanchan S Bhagat,Dr. Dnyaneshwar K Kirange,Dr. Shubhangi D patil,Dr. Jitendra P Chaudhar,Mohammed Laeeq,Dr. Ratnadeep R. deshmkh,Dr. Pramod B. Patil,Mr Kanchan S Bhagat,Dr. Dnyaneshwar K Kirange,Dr. Shubhangi D patil,Dr. Jitendra P Chaudhari,Mohammed Laeeq

**(iii) Declaration by the applicant(s)**

- **The Complete specification relating to the invention is filed with this application.**
- **I am/We are, in the possession of the above mentioned invention.**
- **There is no lawful ground of objection to the grant of the Patent to me/us.**
- **I am/We are, the assignee or legal representative to true first inventors.**

**10. FOLLOWING ARE THE ATTACHMENTS WITH THE APPLICATION:**

Sr.	Document Description	FileName
1	CLAIMS UNDER RULE 1 (PROVISIO) OF RULE 20	emergency_services_claims_ver_1.pdf
2	COMPLETE SPECIFICATION	emergency_services_ver_3.pdf
3	DRAWINGS	drawings_v1 .pdf
4	FIGURE OF ABSTRACT	abstract_SOES .jpeg.jpg

I/We hereby declare that to the best of my/our knowledge, information and belief the fact and matters stated hering are correct and I/We request that a patent may be granted to me/us for the said invention.

Dated this(Final Payment Date): -----

Signature: .....

Name: Mohammed Laeeq

To The Controller of Patents

The Patent office at MUMBAI

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# **Faculty of Pharmacy**

### Application Details

APPLICATION NUMBER	201921007214
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	25/02/2019
APPLICANT NAME	<b>CHAROTAR UNIVERSITY OF SCIENCE &amp; TECHNOLOGY</b>
TITLE OF INVENTION	<b>A NOVEL MICROEMULSION FORMULATION OF TRIAZOLE ANTIFUNGAL DRUGS</b>
FIELD OF INVENTION	ELECTRICAL
E-MAIL (As Per Record)	
ADDITIONAL-EMAIL (As Per Record)	vikas2845agrawal@gmail.com
E-MAIL (UPDATED Online)	
PRIORITY DATE	
REQUEST FOR EXAMINATION DATE	--
PUBLICATION DATE (U/S 11A)	<b>27/11/2020</b>

### Application Status

APPLICATION STATUS	<b>Awaiting Request for Examination</b>
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