



Vel Tech

Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)



Sl. No. : **8226**

Reg. No. : **14RECS1001**

The Board of Management of
Vel Tech Rangarajan Dr. Sagunthala R&D Institute of
Science and Technology (Deemed to be University)

hereby makes known that

AMIT SARKAR

S/O DROUPADI SARKAR

has been admitted to the Degree of

Doctor of Philosophy

in

COMPUTER SCIENCE & ENGINEERING

having been certified by duly appointed examiners to be

qualified to receive the same in the year **AUG- 2019**

in accordance with the provisions of

UGC Regulations 2009 (for the award of Ph.D. Degree)

Title of the Thesis:

**FIREFLY WITH CYCLIC RANDOMIZATION FOR CLUSTER HEAD SELECTION IN
WIRELESS SENSOR NETWORK**

Given under the seal of this Deemed to be University

Dated : **23.10.2020**

Registrar



Vice Chancellor



Chancellor

REPORT OF THE BOARD OF EXAMINERS FOR THE PUBLIC ORAL EXAMINATION
IN THE CASE OF Mr. AMIT SARKAR, (Reg. No. 14RECS1001) PART-TIME
RESEARCH SCHOLAR, DEPARTMENT OF COMPUTER SCIENCE AND
ENGINEERING, VEL TECH RANGARAJAN Dr. SAGUNTHALA R&D INSTITUTE OF
SCIENCE AND TECHNOLOGY, AVADI, CHENNAI- 600062.

The Public Viva-Voce examination of Mr. Amit Sarkar, (Reg. No. 14RECS1001), on his thesis entitled "*Firefly with Cyclic Randomization for Cluster Head Selection in Wireless Sensor Network*" submitted for the award of Ph.D degree in COMPUTER SCIENCE AND ENGINEERING, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology has been conducted as per the following schedule:

Date: 13/08/2019, Tuesday at 12.00 noon.

Venue: Dr. A P J Abdul Kalam Hall, Vel Tech

External Examiners: Dr.A.Kannan,
Senior Professor,
School of Computer Science and Engineering,
VIT, Vellore-632014
Mobile: 9444231185
Email: akannan123@gmail.com

Prof. P Premchand
Professor,
Department of CSE,
Osmania University, Hyderabad
Mobile: 9490666865
Email: profpremchand.p@gmail.com

Supervisor and Convener: Dr. T. Senthil Murugan, (Assoc. Professor, Vel Tech)

Based on the candidate's exposition of his thesis and his answers to the questions raised by the examiners and other participants, the Board of Examiners has resolved to recommend that the performance of the candidate in his Ph.D. Oral Examination is SATISFACTORY and declare to have COMPLETED his Ph.D. Oral Examination and further recommend the award of Ph.D degree in COMPUTER SCIENCE AND ENGINEERING of Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology to the candidate.

A. Kannan
External Examiner
13/8/19
Prof. Dr. A. KANNAN

P. Premchand
13.08.2019
Expert Member
PROF. P. PREMCHAND

T. Senthil Murugan
Supervisor
Dr. T. SENTHIL MURUGAN



Vel Tech

Rangarajan Dr. Sagunthala
R&D Institute of Science and Technology
(Deemed to be University Estd. u/s 3 of UGC Act, 1956)

PROCEEDINGS OF THE Ph.D. ORAL EXAMINATION OF Mr./Ms. AMIT SARKAR HELD AT 12.00 A.M./P.M. ON 13.08.2019 IN THE DR APJ ABDUL KALAM HALL, VEL TECH RANGARAJAN Dr. SAGUNTHALA R&D INSTITUTE OF SCIENCE AND TECHNOLOGY, AVADI, CHENNAI-600 062.

The Ph.D. Oral Examination of Mr./Ms. AMIT SARKAR (Reg.No. 14RECS1001) on the thesis FIRELY WITH CYCLIC RANDOMIZATION FOR CLUSTER HEAD SELECTION IN WIRELESS SENSOR NETWORK has been conducted on 13.08.2019 at 12.00 A.M./P.M. in the Dr APJ ABDUL KALAM HALL Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Avadi, Chennai-600 0062.

Members Present

- | | |
|---------------------------|-----------------------|
| 1. Dr. A. KANNAN | Thesis Examiner |
| 2. PROF. P. PREMCHAND | Expert Member |
| 3. Dr. T. SENTHIL MURUGAN | Supervisor & Convener |

The research scholar Mr./Ms. AMIT SARKAR has presented the salient features of his/her research work. The members of the Board and audiences have posed the questions related to the subject. The questions raised by the Foreign and Indian Examiners have also been put to the scholar. The scholar has answered all the questions from the Board Members and the audiences. The scholar's performance in the Ph.D. Oral Examination is SATISFACTORY.

Based on the scholar's research work, oral presentation and, clarifications and answers to the questions from the Examiners and audiences, the Board unanimously recommends to accept the Ph.D. Thesis for the award of Degree of Doctor of Philosophy in COMPUTER SCIENCE AND ENGINEERING in the School of COMPUTING, Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology to Mr./Ms. AMIT SARKAR.

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|---------------------------|-----------------------|--|
| 1. PROF. Dr. A. KANNAN | Thesis Examiner | <u>A. Kannan</u> <u>13/8/19</u> |
| 2. PROF. Dr. P. PREMCHAND | Expert Member | <u>P. Premchand</u> <u>13.08.2019</u> |
| 3. Dr. T. SENTHIL MURUGAN | Supervisor & Convener | <u>T. Senthil Murugan</u> <u>13.8.19</u> |