

RAVI DHIMAN

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Uttar Pradesh, India

EDUCATION

MS | Cryptography, Networks, Statistical Modelling

July 2017 – Dec. 2021

CGPA: 9.16/10

Discipline: Computer Science,
Advanced Technology Development Centre,
Indian Institute of Technology Kharagpur
West Bengal, India

M.Sc. | Mathematics

July 2014 – June 2016

CGPA: 7.37/10
Department of Mathematics,
Indian Institute of Technology Kharagpur
West Bengal, India

B.Sc.(Hons.) | Mathematics

Aug. 2011 – June 2014

Percentage: 83.46/100

Motilal Nehru College,
University of Delhi
New Delhi, India

RESEARCH INTERESTS

- **Cryptography**
- **Mathematics**

WORK EXPERIENCE

Senior Research Assistant

Dec. 2021 – Feb. 2022

R C Bose Centre for Cryptology and Security, Indian Statistical Institute Kolkata

- **Project Title:** Cryptanalysis of Some Standard Ciphers
- **Sponsored by:** NTRO, India
- **PI:** Prof. Mridul Nandi

Junior Research Fellow

May 2021 – Oct. 2021

SRIC, Indian Institute of Technology Kharagpur

- **Project Title:** Development of Multi-Party Computation Protocols as an Aid to Cloud Computing
- **Sponsored by:** Science and Engineering Research Board (SERB), India
- **PI:** Prof. Sourav Mukhopadhyay

Junior Project Officer

Apr. 2017 – Oct. 2018

SRIC, Indian Institute of Technology Kharagpur

- **Project Title:** An Indigenous Framework for Authenticity, Integrity and Non-Repudiation in Data Communication
- **Sponsored by:** Defence Research and Development Organisation (DRDO), India
- **PI:** Prof. Sudip Misra

RESEARCH EXPERIENCE

MS Thesis | Controller Placement in SDN: Energy- and Mobility-aware perspectives 2017 – 2021

Supervisor: Prof. Sudip Misra, Joint Supervisor: Prof. Sourav Mukhopadhyay

The controller placement is a fundamentally important problem in SDN. We studied the control placement problem in SDN and proposed energy-aware and mobility-aware scheme for the controller.

M.Sc. Thesis | Quasi-conformal Mappings in Plane Domain

2015 – 2016

Supervisor: Dr. Vasudeva Rao Allu

This work aims to find the solution of the well known problem of H. Grotzsch, i.e. is there a conformal mapping of a square onto a rectangle which maps vertices onto vertices? The answer is NO. We tried to find the most nearly conformal mapping of this kind.

PUBLICATIONS

- Ilora Maity, **Ravi Dhiman**, Sudip Misra, "MobiPlace: Mobility-Aware Controller Placement in Software-Defined Vehicular Networks", IEEE Transactions on Vehicular Technology, vol. 70, no. 1, pp. 957-966, Jan. 2021
- Ilora Maity, **Ravi Dhiman**, Sudip Misra, "EnPlace: Energy-Aware Network Partitioning for Controller Placement in SDN", IEEE Transactions on Green Communications and Networking (Under Review)

AWARDS AND ACHIEVEMENTS

- Qualified JEST (Joint Entrance Screening Test) in Theoretical Computer Science (2021)
- Qualified GATE (The Graduate Aptitude Test in Engineering) in Mathematics (2016)
- Recipient of Merit-cum-Means (MCM) Scholarship in M.Sc. provided by Department of Mathematics, IIT Kharagpur (2014-2016)
- Qualified JAM (Joint Admission Test for M.Sc.) in Mathematics (2014)
- Recipient of award for 1st rank in School level in Higher Secondary Examination (2010) and in Secondary Examination (2008)

WORKSHOP ATTENDED

2nd Indo-UK Workshop on Internet of Things

March 2019

Department of Computer Science and Engineering, Indian Institute of Technology Kharagpur

TEACHING EXPERIENCE

Teaching Assistant in Programming and Data Structure Theory

Autumn 2018

Department of Computer Science and Engineering, Indian Institute of Technology Kharagpur

Home Tutor (12th Grade Students)

2017-2020

Mathematics

PROFESSIONAL MEMBERSHIP

IEEE Student Member

Feb. 2018 – Jan. 2019

Member ID: 94721189

SKILLS

Languages: English, Hindi

Programming: C, Python, Mathematica

Document Creation: Microsoft Office Suite, LaTex

REFERENCES

Dr. Sourav Mukhopadhyay
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DECLARATION

I hereby declare that the information mentioned above are true to the best of my knowledge.

Ravi Dhiman