Dr. VIJAYANAND R, M.Tech, Ph.D
42/23, SPN School Street, Muhavoor, Rajapalayam
Tamilnadu, India. Pin: 626 111.

Email: rkvijayanand@gmail.com
GSM: +91 9025541417, +91 7904533953

Summary

Research	: 4 Years and 6 Months (Full Time Research Scholar)
Teaching	: 2 Year and 6 Months
Publications	: 4 International Journals, 3 International Conferences
Research Area	: Data and Network Security – AMI communication of smart grid
PhD Thesis	: Development of Security Algorithms for Smart Meter Data Communication in Smart Grid
Others	: Worked in Organized International and National Conferences, Workshops and in training programs

Areas of Expertise

- Network Security, Intrusion Detection System
- Internet of Things, Wireless Network, AMI Communication of Smart Grid
- Cryptography, Image Processing
- Machine Learning Algorithm : SVM, ANN, Deep Learning
- Programming in Matlab

Education

1.
Degree	: **PhD in Computer Science and Engineering**
Research Title	: Development of Security Algorithms for Smart Meter Data Communication in Smart Grid
Area of Research	: Smart Grid Data Security
Department	: Computer Science and Engineering
Mode of study	: Full Time Research
University	: Kalasalingam Academy of Research and Education, India
Awarded on	: September 2018

2.
Degree	: **M.Tech in Computer Science and Engineering**
Department	: Computer Science and Engineering
Mode of study	: Full Time
University	: Kalasalingam University, Tamilnadu
Awarded on	: June 2011

3.
Degree	: **B.E. in Computer Science and Engineering**
Department	: Computer Science and Engineering
Mode of study	: Full Time
University	: PTRCET, Anna University, India
Awarded on	: June 2009

Work Experience

Present (From 21ˢᵗ January, 2019)

> Assistant Professor
> Department of Computer Science and Engineering
> J.B.Institute of Engineering and Technology
> Hyderabad, India

1ˢᵗ August, 2018 to January 2019

> **Assistant Professor**
> Department of Information Technology
> Saveetha Engineering College
> Chennai, Tamilnadu, India

23ʳᵈ January, 2014 to July 2018

> **Research Scholar – Full Time**
> Department of Computer Science and Engineering
> Kalasalingam Academy of Research and Education
> Srivilliputur, Tamilnadu, India

15ᵗʰ June, 2011 to May 2013

> **Assistant Professor**
> Department of Computer Science and Engineering
> S.Veerasamy Chettiyar College of Engineering and Technology
> Puliyangudi, Tamilnadu, India

Skill Set

Packages	: Matlab, Arduino
Languages	: C, Arduino programming, Python
Microcontroller	: Arduino Uno, Raspberry pi

Awards and Honors

- Best paper award for the wireless network track in i-manager's International conference on Engineering and Technologies, December 2014.

Professional Membership

- Graduate Member in **IEEE** from 2014 (**Member No. 93356350**)
- Member in **IEEE CIS Society**
- Member in **IEEE PES Society**
- Member in **IEEE Young Professionals**
- Member in **IEEE Communities: Big data, Cyber security, 5G Communication, Blockchain**
- Google scholar: https://scholar.google.co.in/citations?user=7eeMDRAAAAAJ&hl=en
- Research Gate: https://www.researchgate.net/profile/Vijay_Anand56

Academic Administrative Activities

- Member of Autonomous committee of IT dept/ SEC
- Placement & Training head of CSE department at SVCET
- Member in Advertising Committee
- IEEE CIS Student Chair

Journal Publications

- **Vijayanand. R**, Devaraj. D and Kannapiran. B, **Intrusion Detection System for Wireless Mesh Network using Multiple Support Vector Machine Classifiers with Genetic-Algorithm-Based Feature Selection**, Computers and Security Journal, Elsevier, 77 (2018) 304 – 314.

  Impact Factor – 2.849
- **Vijayanand. R**, Devaraj. D and Kannapiran. B, **A Novel Intrusion Detection System for Wireless Mesh Network with Hybrid Feature Selection Technique based on GA and MI**, Journal of Intelligent and Fuzzy Systems, IOS Press, 34(1) (2018) 1243 – 1250.

  Impact Factor – 1.261
- **Vijayanand. R**, Devaraj. D, Kannapiran. B, and Kartheeban. K, **Bio-cryptographical Key Generation using Euclidean Algorithm for Smart Meter Communication**, CCIS Series, 628 (2016), 308 – 314.

  (Scopus Indexed)
- **Vijayanand. R**, Devaraj. D, Kannapiran. B and Kartheeban. K, **Development and Performance Evaluation of a Novel Dual Euclidean Algorithm for Secure Data Communication in Smart Grid**, I-Manager's Journal on *Communication Engineering and Systems*, **4**(1) (2015) 1-7.

Conference Publications

- **Vijayanand. R**, Devaraj. D and Kannapiran. B, **SVM based Intrusion Detection System with Reduced Input Features for Advanced Metering Infrastructure of Smart Grid**, International conference on Advanced Computing and Communication Systems, January 2017

  (Scopus Indexed)
- **Vijayanand. R**, Devaraj. D, Kannapiran. B and Kartheeban. K, **Bit Masking based secure data aggregation technique for advanced metering infrastructure of smart grid**, IEEE International Conference on Computer Communications and Informatics, January 2016, 168-172

  (Scopus indexed)
- **Vijayanand. R**, Devaraj. D and Kannapiran. B, **A Novel Dual Euclidean Algorithm for Secure Data Transmission in Smart Grid System**, IEEE International Conference on Computational Intelligence and Computing Research, December 2014, 447-451

  (Scopus Indexed)

Communicated papers

- **Vijayanand. R**, Devaraj. D and Kannapiran. B, **An Efficient Intrusion Detection System using Multi-Objective Genetic Algorithm and Extreme Learning Machine for Neighborhood Area Network of Smart Grid,** Applied Soft Computing, Elsevier.

  (Communicated)

- **Vijayanand. R**, Devaraj. D and Kannapiran. B, **Development of a novel security scheme using DNA biocryptography for smart meter data communication,** IEEE International Conference on Computing and Communications Technologies, 2019, Chennai.

(Communicated)

Trainings and Workshops attended

- Participating in the FDP101X and enrolled for FDP 201X conducted by **IIT Bombay**.
- Participating in the 5-day "Workshop on Cryptography" in May' 17 at **IISC**, Bengaluru.
- Participating in the "National Cyber Safety and Security Summit '14" in Sep '14 at **PSG Tech**, Coimbatore.
- Participating in the "Hands on Training in NS3" workshop in Aug '14 at **Amirta University**, Bengaluru.
- Participating in the "Hands-on Training in NS2" workshop in Mar '14 at **Kongu College of Engineering**, Erode.
- Participating in the "National Network Security Championship" workshop in Jan '14 at **Kalasalingam University**, Krishnankoil.
- Participating in the "Multi Objective Optimization Using Evolutionary Algorithms" workshop in Feb '13 at IEEE student branch, **Kalasalingam University**, Krishnankoil.
- Participating in the "Evolutionary Algorithms and its Applications" workshop in Aug '12 at **Sardar Raja College of Engineering**, Tirunelveli.
- Apart from that, participating in most of the workshops organized by **KLU-IEEE student branch**, KARE at university campus in the **last 4 years**.

Personal Profile

- **Age**   : 30
- **Date of Birth**   : 18.01.88
- **Gender**   : Male
- **Marital Status**   : Married
- **Nationality**   : Indian
- **Community**   : BC – Hindu Nadar
- **Languages Known**   : Tamil, English
- **Passport Number**   : L2328449

References

1. **Dr.D.Devaraj,**
   Director (Academics), Kalasalingam Academy of Research and Education (formerly Kalasalingam University) , Srivilliputur, Tamilnadu, India
   Email: deva230@yahoo.com   Ph: +91 9842913053

1. **Dr.S.Sivakumar,**
   Vice-Principal, Kings College of Engineering,
   Thanjavur, Tamilnadu

Email: vpkings@gmail.com   Ph: +91 9442590003

2. **Dr.K.Jamuna**,
   Assistant Professor, Department of Electrical and Electronics Engineering,
   VIT Chennai Campus, Tamilnadu
   Email: jamunakamaraj@gmail.com