Department of Mathematics
UCE- campus name Ariyalur
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Dr.S.Rajakumar
Assistant Professor

- **Research Area:**

Differential Difference Equation and Pure Difference Equation (Integrable Systems).

- **Educational Qualifications:**

Ph.D Ramanujan Institute for Advanced Study in Mathematics : 2013

CSIR-JRF,SRF (NET) : 2003

- **Experience:**

Assistant professor in Mathematics, Department of Mathematics, University college of Engineering Ariyalur, since 2nd September-2008.

- **Additional / Academic Responsibilities at University:**

  - Head (i/c) in Department of Mathematics : 2009 to Dec 2019
  - First Year Coordinator : 2009-2012, 2013- till date
  - Exam cell Coordinator : 2009-2010, 2016-2017
  - Citizen Consumer Club Coordinator : 2009- till date

- **PhD Research Guidance :** 5 Nos. Completed ; 3 Nos. Ongoing

- **Publications :**

  a. **International Journals:**

1. Anakath, A.S, Ambika.S, Rajakumar.S, Kannadasan.R & Senthilkumar. S, "Fingerprint Agreement Using Enhanced Kerberos Authentication Protocol on M-Health", Computer Systems Science & Engineering - 2022

2. Ramesh K Rajakumar S Anandamurugan S Jeeva S Gayathiri K "Computationally efficient and secure anonymous authentication scheme for IoT-based mobile pay-TV systems" Computational Intelligece, wiley – 2019

3. Ambika.S, Rajakumar.S, Anakath.AS, "A Novel RSA algorithm for secured key transmission in a centralized cloud environment" International journal of communication systems - 2019

4. A.S. Anakath · S. Rajakumar · S. Ambika, "Privacy preserving multi factor authentication using trust management", Cluster Comput, Springer, (2017).

5. Rajakumar, S, Anakath, A.S & Senthilkumar, S, "An Efficient Mutual Authentication Scheme for Telemedicine System Based on IoT Cloud", International Journal of Printing, Packaging & Allied Sciences, vol. 5, no. 1, pp. 768-783, (2017).

6. S.Kamali, A.Abdulrazak, S.Rajakumar, M.K.Mishra and B.Ravindran, " Fuzzy D-Super continuous map", J.Printing, Packaging & Allied Sciences, Vol.4,No.3,(2016).

7. R.Sahadevan and S.Rajakumar, "Higher dimensional integrable mappings derived from coupled discrete nonlinear schrodinger equations", J. Math. Phys. 50, (2009) 043502/1 – 15.

8. R.Sahadevan and S.Rajakumar, "Bilinear, trilinear forms, and exact solution of certain fourth order integrable difference equations", J. Math. Phys. 49, (2008) 033517/1 - 11.

9. H W Capel, R Sahadevan, S Rajakumar, "Super integrable four dimensional autonomous mappings", J.Phys.A: Math. Theor. 40 (2007).

b. <u>International Conferences:</u>

1. Anakath. A. S , Rajakumar.S, Ambika.S, Senthilkumar.S and Kannadasan.R, "An Efficient Mutual Authentication Scheme with Secure Key Exchange in Cloud Based E-health System", Indicom 2018, BVICAM – New Delhi, March 15-17, 2018.

2. Anakath A.S, Rajakumar S, Senthilkumar S & Ambika S, "An Efficient Secure E-Health System in Cloud Based IoT Network Using Two Way Authentication", CDAMIES2018, Department of Production Engineering, National Institute of Technology, Tiruchirappalli, Tamil Nadu, 18-20 January 2018.

3. Anakath A. S, Rajakumar S. , Ambika. S., & Kannadasan R., "An Efficient Mutual Authentication Scheme in Cloud Based E-health System, International Conference on Recent Trents on Applied Science and Technology, Anna University Chennai, September 8 & 9, 2017.

4. Rajakumar S, Anakath, A.S, Naresh, R & Senthilkumar S, "A Detailed Study on Security Services in Cloud Environment", International Conference on Recent Trends and challenges in Computational Models (ICRTCCM-2017), IEEE Xplore Digital Library, Feb 2017.

5. S.Rajakumar, A.S.Anakath, S.Senthilkumar and R.Kannadasan, "An Efficient Cloud Security to Telemedicine Services for Health Care Organizations" in the International Conference on Current Trends in Biotechnology (ICCB-2016), held in VIT University, Vellore during 8th to 10th December 2016. Co- Coordinator