



# Dr.K.Selvakumar

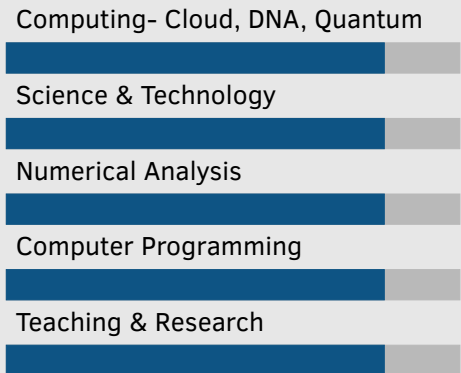
Professor

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## About me

Dr. K. Selvakumar is a Mathematician and a Software Engineer. A researcher working towards multi-disciplinary research in Science and Technology. Predicted lifetime of coronavirus using mathematical models during the international emergency in 2019 to declare a lockdown to save human lives worldwide. Solved some of the open problems proposed by the Numerical Analysis group of Ireland in 1980. Have 37 years of experience in teaching and research since 1987. Retired from service on May 30, 2025.

## Skills



lovely\*4 narcissistic\*3  
 (\*)[The skill scale is from 0 (Fundamental Awareness) to 6 (Expert).]

## Interests

Interested in multidisciplinary research in science and technology, teaching, and administrative work.

## Education

- 2017-2024 Ph.D. Computer Science & Engineering Anna University, Chennai, India  
*Strengthening user's control of data in cloud service.*
- 2010-2013 M. E. Computer Science & Engineering Anna University, Chennai, India  
*Strengthening user's control of data in cloud service.*
- 1987-1992 Ph.D. Numerical Analysis Bharadhiidasan University, Thiruchirapalli, India  
*Uniformly convergent difference schemes for differential equations with a parameter.*
- 1984-1986 M.Sc.Mathematics Madurai Kamaraj University, Madurai, India

## State Level Tests

- 2010 TANCET, Anna University, Chennai, Tamil Nadu, India.
- 1987 Post Graduate Research Fellowship Evaluation & Applied Research, Madras, 1 out of 2.

## National Level Tests

- 1986 NET, UGC, New Delhi, India, 1 out of 10.

## Recent Publications

- 2025 An Encryption and Compression Method to Users Control of Digital Data in the Cloud, IET Information Security, <https://doi.org/10.1049/ise2/5777098>, accepted
- 2024 A cryptographic method to have a secure communication of health care digital data into the cloud, Automatika, 65:1, 373-386.
- 2024 DEEP-KEDI: Deep learning based zigzag generative adversarial network for encryption and decryption of medical images, Technology and Health care 32(2024), 3231-3251
- 2024 The Monophonic-triangular Number of a Graph, Ars Combinatoria, 160: 117-126.
- 2022 L-stable and A-stable numerical method of order two for a stiff differential equation, Soft Computing, 12779 - 12794.
- 2022 Two new optimal and uniform third-order schemes for singular perturbation problems with initial layers, 26,12779-12794.
- 2021 Lifetime prediction of the new coronavirus in the USA using Mathematical Models, Soft Computing, 25,10575-10594.

## Research Articles

- 546 Reviewed in Elsevier, Springer, ACM, IEEE, BMC, ..., Journal articles.
- 96 Published in Elsevier, Springer, ACM, IEEE, BMC, ..., Journal articles.

## Ph.D. Doctoral Thesis

- 01 Examiner
- 06 DC Member
- 05 Supervisor

## Research Patent

- 2022 Lifetime prediction of the new coronavirus in the USA using Mathematical Models, German Patent

## Research Project

2014 Anna University Project, Young Faculty Members under Research Support Scheme

## Awards

2018 Best IEEE research paper award.  
2010 Post Doctoral Research Fellow  
1996 Post Doctoral Research Fellow  
1994 Post Doctoral Research Fellow  
1989 Senior Research Fellow.  
1987 Junior Research Fellow.  
1986 Post Graduate Research Fellow.

## Experience- 37 Years

2014-2025 Assistant Professor University College of Engineering, Nagercoil, India, Worked full-time handling BE, B.Tech., and MBA classes.  
2011-2014 Assistant Professor University VOC College of Engineering, Thothukudi, India. Worked full-time handling BE classes.  
2010-2011 Assistant Professor Anna University of Technology, Thirunelveli, India. Worked full-time handling BE, M.Tech and M.E classes.  
2009-2010 Professor Ponjesley College of Engineering, Nagercoil, India. Worked full-time handling BE, and MBA classes.  
1996-2009 Mathematics Teacher Rose of Sharon Matriculation School, Tholizicode, India. Worked full-time handling Mathematics to high school classes.  
1995-1996 Associate Professor The Indian Engineering College, Vadakabgulam, India. Worked full-time handling BE, and MBA classes.  
1994-1994 Post Doctoral Fellow Bharathidasan University, Tiruchirapalli, India Worked full-time handling M.Sc. classes.  
1992-1994 Assistant Professor Adhiparasakthi Engineering College, Melmaruvathoor, India. Worked full-time handling BE, and MBA classes.  
1989-1992 Senior Research Fellow Bharathidasan University, Tiruchirapalli, India Worked full-time handling M.Sc. Mathematics and Bio-Technology.  
1987-1989 Junior Research Fellow Bharathidasan University, Tiruchirapalli, India Worked full-time handling M.Sc. Mathematics and Bio-Technology.

## Life Memberships

since 2010 Indian Science Congress Association  
since 2010 ISTE, India

## Multidisciplinary Skills

Computer Pascal, Matlab, LaTeX, Micro Vax VMS, Gephi.  
Software Eng. Prediction of the lifetime for software, lifetime of coronavirus.  
Medicine Breast Cancer using mathematical models.  
Control Solving Singularly Perturbed Problems in Control Systems.  
Mechanical Solving Heat equations, ball bearing problems in windmills.  
Civil Fluid flow with initial and boundary layers in civil engineering.  
Technology Securing data during transmission and storage in the Cloud.

## Professional Links

Vidwan <https://vidwan.inflibnet.ac.in/profile/592528>  
ORCID <https://www.orcid.org/0000-0002-6122-3342>  
SCOPUS <https://www.scopus.com/authid/detail.uri?authorId=57215442853&orig>  
Web of Science <https://www.webofscience.com/wos/author/record/O-2527-2018>  
Google Scholar <https://scholar.google.se/citations?user=clxxeEcAAAAJ&hl=en>  
LinkedIn <https://www.linkedin.com/in/dr-k-selvakumar-m-sc-n-e-t-ugc-m-e-ph-d-594a0678/?originalSubdomain=in>