

Name : Dr. B. Shamina Ross

Gender : Female

Designation : Dean IT and Technical Education
Associate Professor & Head

Department : Computer Applications

Date of Birth : 24/03/1974

Date of Appointment : 28/08/2009

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Qualification : M.Sc., M.Phil., Ph.D.

Research Supervisor : Manonmaniam Sundaranar University

Area of Interest : Cryptography & Network Security, Artificial
Intelligence, Cyber Security

Editorship of Journals : 1. i manager Publications
2. BOHR Journal of Computational Intelligence and
Communicational Network
3. Biomedical Sciences and Clinical Medicine



Any Other Informations:

1. Member, Academic Council, Scott Christian College (Autonomous), Nagercoil
2. Member, Examination Cell, Scott Christian College (Autonomous), Nagercoil
3. Member, Awards Committee, Scott Christian College (Autonomous), Nagercoil
4. Member, IQAC, Scott Christian College (Autonomous), Nagercoil
5. Member, Placement Cell, Scott Christian College (Autonomous), Nagercoil
6. Member, Endowment Committee, Scott Christian College (Autonomous), Nagercoil
7. Member Scott Research Forum Convener, Scott Christian College (Autonomous), Nagercoil
8. Convener, Website, Scott Christian College (Autonomous), Nagercoil
9. Member, ICTC, Scott Christian College (Autonomous), Nagercoil
10. Member, HRDC, Scott Christian College (Autonomous), Nagercoil

Served as Resource Person:

1. Skill Development Initiatives on “MS OFFICE, DTP And TALLY” For Differently Abled Persons, Women’s Christian College, Nagercoil, 2010.

2. Skill Development Initiatives on “MS OFFICE, DTP And TALLY” For Differently Abled Persons, Women’s Christian College, Nagercoil, 2011.
3. International Centre for Nano biotechnology – CMST, Centre For Marine Science and Technology, Manonmaniam Sundaranar University, 2014.
4. Skill Development Programme II on “Personality Development & Facing Interviews”, Scott Christian College (Autonomous), Nagercoil, 2015.
5. Personality Development Programme, Scott Christian College (Autonomous), Nagercoil, 2015.
6. Orientation Programme “Role of Computers in Modern World”, Scott Christian College (Autonomous), Nagercoil, 2023.
7. Orientation Programme “Role of Computers in Higher Education”, Scott Christian College (Autonomous), Nagercoil, 2024.
8. Seminar on “Software Professionals”, Holy Cross College (Autonomous), Nagercoil, 2024.
9. Orientation Programme “Latest Trends in Computer Technology”, Scott Christian College (Autonomous), Nagercoil, 2024.
10. Orientation Programme “AI Technology in Future”, Scott Christian College (Autonomous), Nagercoil, 2025.

List of Publications:

1. V. Josephraj and B. Shamina Ross, “Enhancing the Performance of Blowfish Encryption Algorithm in Terms of Speed And Security By Modifying its Function”, International Journal of Applied Engineering Research, vol. 10, pp. 621-624, 2015.
2. B. Shamina Ross and V. Josephraj, “Improvement of Blowfish Encryption Algorithm by Modifying its Function”, JM International Journal on Information Technology, vol. 2, pp. 37-40, January 2012.
3. V. Josephraj and B. Shamina Ross, “Enhancement of Blowfish Encryption in Terms of Security Using Mixed Strategy Technique”, IIOAB Journal, Emerging Technology in Networking and Security, vol.7, pp. 69-76, 2016.
4. V. Josephraj and B. Shamina Ross, “A Hybrid Blowfish Encryption Algorithm Using Nash Equilibrium with Cautious Attackers”, International Journal of Control Theory and Applications, vol.9, pp. 4761-4769, 2016.
5. V. Josephraj and B. Shamina Ross, “Security Evaluation of Blowfish and Its Modified Version Using GT’s One Shot Category of Nash Equilibrium”, International Journal of Control Theory and Applications, 2016, vol.9, pp. 4771- 4777, 2016.
6. B. Shamina Ross and Josephraj V., “Enhanced Security of Blowfish Using Game Theory’s Optimal One-Shot Category of Nash Equilibrium in Avalanche Effect”, International Journal of Current Advanced Research, 2017, vol.6, pp.3382-3387, DOI:<http://dx.doi.org/10.24327/ijcar.2017.2346.0005>, www.journalijcar.org.
7. B. Shamina Ross and V. Josephraj, “Performance Enhancement of Blowfish Encryption Using RK- Blowfish Technique”, International Journal of Applied Engineering Research, 2017, vol. 12, pp. 9236-9244, <http://www.ripublication.com>
8. B. Shamina Ross, "Comparative Analysis of Different Encryption Techniques For Secured Data Transmission", Gedragen Orgnisatie, Vol:34, ISSN: 0921- 5077, Issue:04, pp 81-89, 2021, <http://lemma-tijdschriften.com>
9. S. Jasmine Minija, M. Anline Rejula and **B. Shamina Ross** “ Automated Detection of Diabetic

Retinopathy Using Optimized Convolutional Neural Network “, Multimedia Tools and Applications, Springer Science + Business Media,LLC,Part of Springer Nature,2023,https://doi.org/10.1007/s11042-023- 16204-0

10. .Dr.Sandra Sagar*, Dr.Pratibha Ramani, Dr.Vijayashree Priyadharsini Jayaseelan, Dr. Genickson Jeyaraj R , Dr. Georgia Benitha. J, **Dr. Shamina Ross**, “Genetic Association Of Vitamin D Receptor (Rs731236) Gene Polymorphism With Susceptibility To Oral Cancer In The South Indian Population –ACase-Control Study” Frontiers in Health Informatic, www.healthinformaticsjournal.com, ISSN-Online: 2676-7104, 2024; Vol 13: Issue 3, Open Access.

Conference Proceedings:

1. Dr. B. Shamina Ross¹, Dr. C. Thinkal Dayana², “Application of AI in Cyber Security – An Intelligent Phishing Detection System”, Proceedings of the International Conference on Recent Advances in Cloud Computing and Communication Technology (ICRACCCT' 24) ISBN 978-81-972950-1-0 | 06 September 2024

Books Published:

1. Dr. B. Shamina Ross¹, Mrs. P. Ezhil Roja² “Digital Empowerment Through Artificial Intelligence, Multimedia And Cyber Security” ISBN: 978-93-342-0405-6 January 2025.

Awards:

1. Achievers Award - 2024-2025 Book Publication
2. Academic Achiever - 2024-2025 Publication in Reputed Journal