

## Faculty Profile

**Mr. I. Titus, M.Tech., (Ph.D)**

Assistant Professor,  
Department of Computer Science and Engineering  
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### Academic Background

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Degree	University	Year
Ph.D	Karunya Institute of Technology and Sciences (Deemed to be University)	Pursuing
M.Tech	Karunya Institute of Technology and Sciences (Deemed to be University)	2012
B.E	Karunya Institute of Technology and Sciences (Deemed to be University)	2010

### Courses Taught

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- Object Oriented Programming in C++
- Object Oriented Programming in Java
- Web Technology

### Research Interests

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- Wireless Sensor Network
- Internet of Things
- Optimization Techniques

### Most recent Publications

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#### Journals:

- Titus Issac, Salaja Silas, and Elijah Blessing Rajsingh. "Investigative prototyping a tissue P system for solving distributed task assignment problem in heterogeneous wireless sensor network." *Journal of King Saud University-Computer and Information Sciences – Elsevier Publication* (IF:13.473)
- Titus Issac, Salaja Silas, and Elijah Blessing Rajsingh. "Prototyping a Scalable P-system-Inspired Dynamic Task Assignment Algorithm for a Centralized Heterogeneous Wireless Sensor Network." *Arabian Journal for Science and Engineering* (2020) - Springer Publication (IF: 2.334).
- Titus Issac, Salaja Silas, and Elijah Blessing Rajsingh. "Investigations on task and role assignment protocols in wireless sensor network", *Journal of Theoretical & Applied Information Technology* 89.1 (2016).

#### **Conferences:**

- Titus Issac, Salaja Silas, and Elijah Blessing Rajsingh. "Luminaire aware centralized outdoor illumination role assignment scheme: A smart city perspective." *Advances in Big Data and Cloud Computing*. Springer, Singapore, 2019. 443-456.
- Titus Issac, Salaja Silas, and Elijah Blessing Rajsingh. "Investigations on PSO based task assignment algorithms for heterogeneous wireless sensor network." 2019 2nd International Conference on Signal Processing and Communication (ICSPC). IEEE, 2019.
- Titus Issac, Salaja Silas, and Elijah Blessing Rajsingh. "Luminaire-aware dynamic illumination role assignment scheme for a safe and green smart city." 2019 3rd International Conference on Computing and Communications Technologies (ICCCT). IEEE, 2019.
- Titus Issac, Salaja Silas, and Elijah Blessing Rajsingh. "System Modeling and Simulation of an Outdoor Illumination System Using a Multi-layer Feed-Forward Neural Network." *Intelligence in Big Data Technologies—Beyond the Hype*. Springer, Singapore 495-507.
- Titus Issac, Salaja Silas, and Elijah Blessing Rajsingh. "Investigations on System Modeling Simulations for Solving Heterogeneous WSN Task Assignment Problem using Multilayer Feed Forward Neural Networks." *Materials Today: Proceedings* 24 (2020): 2439-2448.

- Silas Salaja, Elijah Blessing Rajsingh, and Titus Issac. "WASF—Weighted average based subjective feedback system for E-healthcare services" Next Generation Computing Technologies (NGCT), 2016 2nd International Conference on. IEEE, 2016. (IEEE Publication)
- Kumar, G. Edwin Prem, Titus Issac , and Sony I. Thekkekara. "A comprehensive overview on application of trust and reputation in wireless sensor network." Procedia Engineering 38 (2012): 2903-2912. (Elsevier Publication)

#### **Book chapters:**

- Titus Issac, Salaja Silas, and Elijah Blessing Rajsingh. "Modelling a Deep Learning-Based Wireless Sensor Network Task Assignment Algorithm: An Investigative Approach." Deep Learning Strategies for Security Enhancement in Wireless Sensor Networks, IGI Global, 2020. 84-109. (IGI Global Publication)
- Titus Issac, Salaja Silas, and Elijah Blessing Rajsingh. "Dynamic and static system modeling with simulation of an eco-friendly smart lighting system", Systems Simulation and Modeling for Cloud Computing and Big Data Applications. Academic Press, 2020. 81-97. (Elsevier Publication)
- Titus Issac, Salaja Silas, and Elijah Blessing Rajsingh. "Dynamic Self-Aware Task Assignment Algorithm for an Internet of Things-Based Wireless Surveillance System." *The Cognitive Approach in Cloud Computing and Internet of Things Technologies for Surveillance Tracking Systems*. Academic Press, 2020. 37-50.

#### **Significant achievements:**

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- University Rank holder in M.Tech (Network & Internet Engineering)
- Worked as a Senior Research Fellow for the ICMR funded project for the worth of 13 Lakhs, titled "Effective patient friendly IT enabled tool for selection of desired health care service".
- Team mentor for a winning team of Smart India Hackathon 2019.