

# R G M COLLEGE OF ENGINEERING & TECHNOLOGY (AUTONOMOUS)

**Dr. Prof. VLN SIMHAN**

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Computer Science & Engineering



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## ACADEMIC QUALIFICATIONS

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<b>CELD</b>	Certificate in Executive Leadership Development, Defence Science and Technology Organisation (DSTO), Australia.
<b>GCM</b>	Graduate Certificate in Management (Scientific Leadership), University of South Australia.
<b>Ph.D.</b>	The University of Queensland, Australia. Broad area of research: parallel processing systems; specific area of work: dataflow architectures, multiprocessor systems and languages.
<b>M.E. (Distinction)</b>	Madras Institute of Technology, Madras, India, in the field of Electronics and Computer Engineering. (now part of Anna University, Chennai)
<b>B.E. (Distinction)</b>	Indian Institute of Science, Bangalore, India, in the field of Electronics and Communication Engineering.
<b>B.Sc. (Distinction)</b>	University of Madras, Madras, India, majoring in Physics with Mathematics and Chemistry as ancillaries.

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## ACADEMIC DISTINCTIONS

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1. Received the University of Queensland Postdoctoral Research Fellowship during 1989-1990.
2. Received the University of Queensland Post Graduate Research Scholarship for my Ph.D. Degree. This award is tenable for 4 years though I availed myself of this award for 3½-years only.
3. Received the University Grants Commission (UGC) award during the M.E. Degree. This award was given for 1½-years by the Government of India.
4. Received the Tata Endowment Merit Scholarship during the B.E. Degree from the prestigious Tata Foundation, Bombay, India. This award was given for 3-years.
5. Received National Scholarship during the B.Sc. Degree from the Government of India. This award was given for 4-years.
6. Received various prizes during high school study period, which include the State First award in the school final examination. Received the best student award in school for academic performance. Also won several awards for excellence in extra-curricular activities.

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## MEMBERSHIPS & HONORARY ROLES

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- Life Member, Indian Science Congress Association (ISCA)
- Member, International Federation for Information Processing (IFIP)
- Member, Informing Science Institute (ISI)
- Member, The Australian Association for Engineering Education (AAEE)
- Member, Standards Australia and Standards New Zealand
- Technical Member (Information Standards), American National Standards Institute (ANSI)
- Australian Army Reserve (Engineering)
- Member, Newcastle Chamber of Business
- Consultant to The Boeing Aerospace Company, USA
- Consultant to MIMOSA (Machinery Information Management Open Source Alliance), USA

## BOOKS AND BOOK CHAPTERS

1. V. Lakshmi Narasimhan and Z. Mbero, “Internet of Things (IoT) – Their Ethics and Privacy Concerns”, Book Chapter, *ICT for Data Sciences, Taylor and Francis Book Series*, 2021. (to appear).
2. M.J. Nwonye, V. Lakshmi Narasimhan and Z.A. Mbero, “Coronary Heart Disease Analysis using Two Deep Learning Algorithms RNN & CNN and their Sensitivity Analyses“, Book Chapter “Deep Learning for Personalized Healthcare Services, DeGruyter Germany Publ., 2021. (to appear).
3. V. Lakshmi Narasimhan, “iSILM: IoT-Enabled Smart Intelligent Livestock Management”, by **Springer Series**, 2021. (To appear).
4. V. Lakshmi Narasimhan, “Coordinating Autonomous Drones for Agricultural and Entomological Safety (CADAES)”, Lecture Notes in Electrical Engineering (**LNEE**) **Series by Springer Series**, 2021. (To appear).
5. V. Lakshmi Narasimhan, “Proactive Personalized Primary Care Information System – P<sup>3</sup>CIS”, Lecture Notes in Electrical Engineering (**LNEE**) **Series by Springer Series**, 2021. (To appear).
6. V. Lakshmi Narasimhan and A.K. Sala<sup>and Anne Shergill</sup>, “GI Cloud Design – Issues and Perspectives”, Computational Intelligence in Healthcare of Health Information Science, **Springer Nature**, 2021. (To appear).
7. V. Sampath Kumar and V. Lakshmi Narasimhan, “Cyber Safety Technologies and Solutions Using Artificial Intelligence – The Case of Assessing Cybersecurity Economic Risks in Virtual Power Plants”, **Springer series 2021** entitled "Studies in Computational Intelligence", entitled, “Artificial Intelligence for Cyber Security-Methods (ACIS), Issues and Possible horizons", 2021. (**To appear**).
8. E. A. Budu, V. Lakshmi Narasimhan and Z.A. Mbero, “Perturbation Analysis of Two Deep Learning Algorithms Employed in Cervical Cancer Classification”, IoTs for Big Data, Book Published by **IET- MLBT (UK)**, 2021. (To appear).
9. V. Lakshmi Narasimhan, “Designing a Virtual Mother-in-Law!", **AIS Series of Springer Series**, vol. , No. , 2021 (To appear).
10. V. Lakshmi Narasimhan, “RECA: Deriving the Rail Enterprise Confluence Architecture for Large-Scale Data Analytics”, **AIS Series of Springer Series**, vol. , No. , 2021 (To appear).
11. V. Lakshmi Narasimhan, “iSHAB: IoT-Enabled Smart Homes and Buildings”, **CCIS Series of Springer**, vol. , No. , 2021 (To appear).
12. V. Lakshmi Narasimhan, G.V. Bhargavi, C. Lakshmi and L. Lylee, “Synesthetic Learning Pedagogy (SLP) - An Exploratory Investigation", Book Chapter, **Springer series** on , vol. , no., pp - . 2020.
13. V. Lakshmi Narasimhan, “A Variance Model for Risk Assessment during Software Maintenance” **Springer AISC Series – Advances in Intelligent Syst., Computing**, Vol. 1177, Suresh Chandra Satapathy et al. (Eds): Intelligent Data Engineering and Analytics, 978-981-15-5678-4, 492412\_1\_En, (Chapter 22), See more at:  
Vol.1: <https://www.springer.com/gp/book/9789811557873> and Vol 2: <https://www.springer.com/gp/book/9789811556784>
14. A. Thomas and V. Lakshmi Narasimhan, “Modelling CPU Execution Time of AES Encryption Algorithm As Employed Over a Mobile Environment”, **Springer AISC Series – Book Chapter**, Springer series on , vol. , no., pp - , 2020. Advances in Intelligent Syst., Computing, Vol. 1177, Suresh Chandra Satapathy et al. (Eds): Intelligent Data Engineering and Analytics, 978-981-15-5678-4, 492412\_1\_En, (Chapter 20), See more at:  
Vol.1: <https://www.springer.com/gp/book/9789811557873> and Vol 2: <https://www.springer.com/gp/book/9789811556784>

## 2. PAPERS PUBLISHED IN REFEREED JOURNALS

1. A. Shergill and V. Lakshmi Narasimhan, “Automation in Gastroenterology – Current Issues and Perspectives”, *The American Journal of Gastroenterology* 10/2019; 114 (Supplement):S1583-S1584, 2019.
2. G. V. Bhargavi, V. Lakshmi Narasimhan and S. Basha, “Quality Education for All: An Examination of the Impact of MOOCs on Quality of Education”, To appear in the *Jol. of*, 2017.

### **3. PAPERS PUBLISHED IN REFEREED CONFERENCES**

1. M. Nwonye, V. Lakshmi Narasimhan and Z.A. Mbero, "Sensitivity Analysis of Coronary Heart Disease using Two Deep Learning Algorithms CNN & RNN", Proc. IST Africa Conf., Virtual Conf., IEEE Xplore. 2021.
2. D.A. Lyimo, V. Lakshmi Narasimhan and Z.A. Mbero, "Sensitivity analysis of coffee leaf rust disease using two deep learning algorithms", Proc. IST Africa Conf., Virtual Conf., IEEE Xplore. 2021.
3. R.V. Krishna and V. Lakshmi Narasimhan, "A Case Study in Requirements Analysis – Sakhee, Software Portfolio Manager", Proc. of 8<sup>th</sup> Intl. Conf. on Computing and Sustainable Global Development (IndiaCOM), 17-19 March 2021.
4. V. Lakshmi Narasimhan, "Panorama: A Multi-Language Software Information Prospecting Facility", Proc. of 8<sup>th</sup> Intl. Conf. on Computing and Sustainable Global Development (IndiaCOM), 17-19 March 2021.
5. E.A. Budu, V. Lakshmi Narasimhan, Z.A. Mbero, (2020), "Perturbation Analysis of Two Deep Learning Algorithms Employed for Cervical Cancer Classification" To be presented at the 2020 NEURIPS Conference, Vancouver, Canada.
6. V. Lakshmi Narasimhan, "Information Management System for Personalized Primary Care", Proc. 1st Intl. Conf. on Smart and Secure Computing (SMASEC-2020), Dec.25-26, 2020, World Wide Web.
7. V. Lakshmi Narasimhan, "CADAES–Cooperating Autonomous Drones for Agricultural and Entomological Safety", Proc. 1st Intl. Conf. on Smart and Secure Computing (SMASEC-2020), Dec.25-26, 2020, World Wide Web.
8. V. Sampath Kumar and V. Lakshmi Narasimhan, "Using Deep Learning for Assessing Cybersecurity Economic Risks in Virtual Power Plants", IEEE Intl. Conf. on Electrical Energy Systems (ICEES – 2021), **IEEE Xplore**. Feb.11-13, 2021.
9. V. Lakshmi Narasimhan, "Designing a Virtual Mother-in-Law!", Proc. of Intl. Conf. on Innovation & Communication Technologies (ICIICT 2020), National University of Singapore, Singapore, 18-19 December 2020.
10. V. Lakshmi Narasimhan, "Coordinating Autonomous Drones for Agricultural and Entomological Safety (CADAES)", 11th International Conference on Information Science and Applications 2020 (ICISA2020), 16-18 Dec 2020, Seoul, Korea.
11. V. Lakshmi Narasimhan, "Proactive Personalized Primary Care Information System – P<sup>3</sup>CIS", 11th International Conference on Information Science and Applications 2020 (ICISA2020), 16-18 Dec 2020, Seoul, Korea.
12. V. Lakshmi Narasimhan, "iSHAB: IoT-Enabled Smart Homes and Buildings", Proc. of 10<sup>th</sup> Intl. Advanced Computing Conf. (IACC-2020), 5-6 Dec 2020, Goa, India.
13. V. Lakshmi Narasimhan, "RECA: Deriving the Rail Enterprise Confluence Architecture for Large-Scale Data Analytics", Proc. of 10<sup>th</sup> Intl. Advanced Computing Conf. (IACC-2020), 5-6 Dec 2020, Goa, India.
14. V. Lakshmi Narasimhan, G.V. Bhargavi, C. Lakshmi and L. Lylee, "Synesthetic Learning Pedagogy (SLP) - An Exploratory Investigation", Proc. IEEE Intl. Conf. on Machine Intelligence and Smart Systems (MISS-2020), 24-25 Sept, 2020, Gwalior, India.
15. V. Lakshmi Narasimhan, "Internet of Medical Things (IoMT)", Proc. of AICTE-ATAL Academy (International), University Grants Commission (UGC), India, 21-25 Sept. 2020.
16. V. Lakshmi Narasimhan, "IoT Enabled Smart Animal Farm", Proc. of AICTE-ATAL Academy (International), University Grants Commission (UGC), India, 21-25 Sept. 2020.
17. V. Lakshmi Narasimhan, "Social Internet of Things – SioT", Proc. of AICTE-ATAL Academy (International), University Grants Commission (UGC), India, 21-25 Sept. 2020.
18. V. Lakshmi Narasimhan, "A Variance Model for Risk Assessment during Software Maintenance" Proc. Springer AISC Series –8th Intl. Conf. on Frontiers of Intelligent Computing: Theory and Applications (FICTA2020), Surathkal, India, 4-5 Jan. 2020.