

# CURRICULUM VITAE

## Vimal Mohan

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## DEGREES

- **Ph.D. in Civil Engineering** *Reg. Jan 2019*  
Indian Institute of Technology Madras, Chennai, India  
(On going)
- **M.Tech Concrete Aided design of structures** *Aug. 2008*  
Malnad College of Engineering, Anna University, Chennai, India  
Class: First Class with Distinction
- **B.E. in Civil Engineering** *May 2005*  
Bharath Institute of Science & Technology, Anna University, Chennai, India  
Class: First Class with Distinction

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## Employment Details

Sr. No.	Grade / Post	From	To	Lab./Instt.
1	Deputy Manager (R&D)	01-8-2008	31-03-2011	Godrej Industries
2	Project Officer	01-04-2011	28-07-2011	IIT Madras
3	Scientist	29-7-2011	28-7-2016	CSIR-SERC
4	Senior Scientist	29-7-2016	28-7-2022	CSIR-SERC
5	Principal Scientist	29-7-2022	Till Date	CSIR-SERC

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## RESEARCH AREAS

- Corrosion: prevention and protection in RCC & PSC structures
- Cathodic protection of concrete systems & Durability of concrete structures
- Automated NDT of concrete & heritage structures
- Condition assessment and extension of service life.

## REFEREED JOURNAL PAPERS

Sl. No	Authors	Title of the Article	Year of Pubn	Name of Journal	Country	Vol No. Issue, Pages
1	Vimal Mohan, Arul Jayachandran & M.S. Kallapa	Experimental investigation on behavior of cold formed steel stub uprights	2017	Journal of Structural Engineering	India	Vol. 44, No. 4, October 2017 pp. 287-296
2	S.Saibabu, P. Srinivasan and Vimal Mohan	A Case Study on the Design of Fastening of External Prestressing Anchorage	2020	Indian Concrete Journal	India	94, 45-51
3	S.Saibabu, P. Srinivasan and Vimal Mohan	Influence of Shear Reinforcement on Thin Web Pretensioned Concrete Beams	2020	Journal of The Institution of Engineers (India)	India	101,445-453
4	Kolimi Rakshitha, S. Sundar Kumar, Vimal Mohan, Aruna Kanthi E, Srinivasan P	Behaviour of ultrasound energy in the presence of obstacle	2022	International journal of Engineering and Technology	India	V 9(2), 479-482
5	Kavya R Nair, Vimal Mohan and P. Srinivasan	Reliability of Thermal Images and Numerical Modelling on Passive Infrared Thermography for Concrete Structures	Journal of Non-destructive testing and evaluation	20	64-74	March, 2023

## REFEREED CONFERENCE PAPERS

Sl. No	Authors	Title of the Article	Date/Year	Name of Conference	Venue
1	Vimal Mohan, P. Srinivasan & S. Saibabu	Ultrasonic Pulse Velocity Method for Evaluation of Concrete Quality- Limitations and Critical Analysis	Dec 21-23, 2016	Structural Engineering Convention (SEC)-2016	CSIR-SERC
2	P. Srinivasan, S. Saibabu, Vimal Mohan, A.K.Farvaze Ahmed and V.Ramesh Kumar	Assessment of Jack Arch Roof- A Case Study	December 19 - 21, 2018	11th Structural Engineering Convention – 2018,	Jadavpur University, Kolkata, India
3	S. Saibabu, P. Srinivasan, Vimal Mohan and SGN Murthy	Review on inspection of civil infrastructures	December 19 - 21, 2018	11th Structural Engineering Convention – 2018,	Jadavpur University, Kolkata, India
4	Agnus A. Mathew, S. Saibabu, Vimal Mohan, and Deepa Varkey	Linear analysis of Brick Masonry Prism using ABAQUS	1st April 2020.	International Conference on Novel Innovations and Sustainable Development in Civil Engineering	Vel Tech Rangarajan Institute of Science and Technology, Chennai
5	Agnus A. Mathew, S. Saibabu, Vimal Mohan, and Deepa Varkey	Analysis of Strains in Brick Masonry using ABAQUS	15th May 2020	International Conference on Structural Engineering and Construction Management	Federal Institute of Science and Technology, Kerala

6	Karthic V, S. Saibabu, Nalina K and Vimal Mohan	Numerical Modelling of RCC Corroded Beam	3rd May 2019	Technological Developments in Structural and Infrastructure Engineering (TDSIE)	P. S.G College of Technology, Coimbatore
7	Kavya R Nair, Srinivasan P, Vimal Mohan & Jayalekshmi R	Reliability of Passive Infrared Thermography for Concrete Structures using Finite Element Modelling	5th May 2019	Proceedings of International Conference on Recent Engineering and Technology (ICRET)	New Horizon College of Engineering Bengaluru

### **Contribution to Books**

Sl. No	Editors	Title of the chapter	Year of Pubn	Title of Book	Country	Edition No.
1	Gabi Ben-Dor, Anatoly Dubinsky, Tov Elperin	Penetration into Concrete and reinforced concrete	2017	World Scientific Handbook of Experimental Results on High Speed Penetration into Metals, Concrete and Soil	Israel	1
2	P. Srinivasan and Vimal Mohan	Basic NDT of concrete Structures & conditional assessment of corrosion affected concrete structures	2019	Certificate Course on NDT of Concrete structures	India	
3	P. Srinivasan and Vimal Mohan	Conditional assessment of corrosion affected concrete structures	2021	Advanced course on corrosion of reinforcement and its control	India	

4	P. Srinivasan and S.Sundar kumar	Concrete Structure-Basic and Advance NDT	2021	Forensic analysis of concrete structures	India	
5	P. Srinivasan and Vimal Mohan	Conditional Assessment of Corrosion affected Concrete Structures	2020	Advanced course on corrosion of reinforcement and its control	India	
6	P. Srinivasan and S. Saibabu	Conditional Assessment of Corrosion affected Concrete Structures	2020	Forensic analysis of concrete structures	India	
7	P. Srinivasan and S. Saibabu	Conditional Assessment of Corrosion affected Concrete Structures	2019	Forensic analysis of concrete structures	India	
8	P. Srinivasan and S. Saibabu	Conditional Assessment of Corrosion affected Concrete Structures	2019	Advanced course on corrosion of reinforcement and its control	India	

### **Institutional Publication**

1. Vimal Mohan, S. Sundar Kumar & P. Srinivasan ‘Experimental investigation of damage detection using energy method’, CSIR-SERC Research Report No. R&D 04–MLP212–RR–3, January 2022
2. S. Sundar Kumar, Vimal Mohan, K. Lakshmikandhan & P. Srinivasan ‘Analytical investigation of damage detection using energy method’, CSIR-SERC Research Report No. R&D 04–MLP212–RR–4, January 2022
3. S. Sundar Kumar, Vimal Mohan & P. Srinivasan ‘A state-of-the-art on damage detection using ultrasound pulse-energy based method’, CSIR- SERC Research Report No. R&D 04–MLP212–RR–2, December 2021
4. Srinivasan P., Saibabu, S and Vimal Mohan, “Condition Assessment of RCC structures of Desalination plant and recommendation for remedial measure

- NTCEL, Vallur”, Consultancy Project report No. R&D 02-SSP-259-SR-01, January 2021.
5. Srinivasan P., Saibabu, S and Vimal Mohan, “Performance evaluation of corroded reinforcement bars”, Technical Service Report No. R&D 02-TSP-5635-SR-01, August 2020.
  6. Srinivasan P., and Vimal Mohan, “Condition Assessment of TG deck of unit-II NDT & PDT CGSPCL”, Consultancy Project report No. R&D 02-CNP-6582-SR-01, July 2020
  7. Srinivasan P, Vimal Mohan, S. Sundarkumar, and Saibabu S "A report on Literature survey on Non-destructive testing of submerged concrete structures", CSIR - SERC Research Report No. MLP 21241-02, June 2020.
  8. Srinivasan P., Saibabu, S and Vimal Mohan, “Condition Assessment of foundation of spheres, GAIL India”, Consultancy Project report No. R&D 02-CNP 6605-SR-01, April 2020
  9. Srinivasan P, Vimal Mohan, Dr. Saibabu S and Murthy S G N, "Calibration studies on defect evaluation in concrete specimen using passive thermography", CSIR - SERC Research Report No. OLP19641-02, June 2019.
  10. Srinivasan P., and Vimal Mohan, “Condition Assessment of RC and Steel structures/Buildings of the power plant of VSTPP, Stg 4 & 5 through Visual Inspection, NTPC, Vindychal”, Consultancy Project report No. R&D 02-CNP-6565-SR-01, March 2019.
  11. Srinivasan P., and Vimal Mohan, “Condition assessment of concrete in distressed portion of RC chimney at 23 m Level”, Consultancy Project report No. R&D 02-CNP-6577-SR-01, March 2019.
  12. Srinivasan P., and Vimal Mohan, “Structural Adequacy of the TG foundation with deviation in column”, Consultancy Project report No. R&D 02-CNP-6579-SR-01, March 2019.
  13. Srinivasan P., and Vimal Mohan, “Condition Assessment of mill 1F pedestal damage assessment at NTCEL”, Consultancy Project report No. R&D 02-CNP-6580-SR-01, March 2019.

14. Srinivasan P., and Vimal Mohan, “Evaluation of retrofitting work of RCC chimney”, Consultancy Project report No. R&D 02-CNP-6585-SR-01, March 2019.
15. S. Bhaskar., Vimal Mohan., and S. Bhashiya “Phase-1 condition assessment of induced draught cooling towers and its supporting frame at NTPC, Ramagundam, Chennai”. Sponsored Project report No. R&D 02-SSP-6511-CR-01, March 2019.  
Srinivasan P., and Vimal Mohan, “Condition Assessment of RCC and steel buildings through visual inspection at JSW, Bellary”. Technical Service report No. R&D 02-TSP-206-CR-01, April 2019.
16. Srinivasan P., and Vimal Mohan, “Preliminary inspection of RMHP-A13A Conveyor junction, BF-Chimneys of stove 2,3,4 and SGP3 and Sinder plant-Main stack of old plant at SAIL/Durgapur Steel Plant, Durgapur”. Technical Service report No. R&D 02-TSP-4352, April 2019.
17. Srinivasan P., and Vimal Mohan, “Evaluation on concrete integrity on TG Column and deck using Ultrasonic pulse velocity testing”, Consultancy Project report No. R&D 02-CNP-6589-SR-01, April 2019.
18. Srinivasan P., and Vimal Mohan, “Condition Assessment of Open Water Channel at NTPC, Talcher”. Technical Service report No. R&D 02-TSP-4351-CR-01, April 2019.
19. Srinivasan P., and Vimal Mohan, “Condition assessment of overhead water tank and recommendations for repair measures, NITTR, Chennai”, Consultancy Project report No. R&D 02-CNP-6556-SR-01, May 2019.
20. Srinivasan P., and Vimal Mohan, “Condition assessment of Foundation of TV tower at Shilong and recommendation for remedial measures”, Consultancy Project report No. R&D 02-CNP-6529-SR-01, May 2019.
21. Srinivasan P., and Vimal Mohan, “Condition assessment of Foundation of TV tower at Ittanagar and recommendation for remedial measures”, Consultancy Project report No. R&D 02-CNP-6530-SR-01, May 2019.
22. Srinivasan P., and Vimal Mohan, “Structural adequacy of the proposed extension of TV tower including condition assessment of RCC cap slab & shaft and

- recommendation for strengthening measures, DDK, Dibrugarh Consultancy Project report No. R&D 02-CNP-6526-SR-01, May 2019
23. Srinivasan P., and Vimal Mohan, “Condition Assessment of TG Deck of unit-1 and 11 using NDT and PDT”, Consultancy Project report No. R&D 02-CNP-6582-SR-01, May 2019.
  24. Srinivasan P., and Vimal Mohan, “Evaluation of fire damaged TG Deck & Pedestals of unit I and recommendation for remedial measures”, Consultancy Project report No. R&D 02 -SR-01, May 2019.
  25. Cinitha. A., and Vimal Mohan, “Structural adquency checking of 150m high TV Tower for additional antenna at Asansol site Project report No. R&D 02-CNP-6543-SR-01, August 2019.
  26. Srinivasan P, Vimal Mohan, Dr. Saibabu, S and Murthy S G N, "Calibration studies on crack detection in concrete surface using image processing", CSIR - SERC Research Report No. OLP19641-03, August 2019.
  27. Srinivasan P., Saibabu, S Arunsundaram, B, and Vimal Mohan, “Condition Assessment of RC and Steel Structures/Buildings of the Power Plant at NTPC, Vindhyachal through Visual Inspection”, Consultancy Project report No. R&D 02-CNP-6493-SR-01, March 2018.
  28. Srinivasan P., Saibabu, S and Vimal Mohan, “Condition Assessment of RC and Steel Structures/Buildings of the Power Plant at JSW, Bellary through Visual Inspection”, Consultancy Project report No. R&D 02-CNP-6493-SR-01, March 2018.
  29. Srinivasan P., Saibabu, S and Vimal Mohan, “Condition Assessment of water tank of at CSIR-NGRI, Hyderabad through Visual Inspection”, Consultancy Project report No. R&D 02-CNP-6493-SR-01, March 2018.
  30. Srinivasan P., Saibabu, S and Vimal Mohan, “Condition Assessment of pilot plant at CSIR-NCL, Pune through Visual Inspection”, Consultancy Project report No. R&D 02-CNP-6493-SR-01, March 2018.
  31. Srinivasan P., and Vimal Mohan, “Condition assessment of induced draught cooling towers and its supporting frame at NTPC, Barh, Chennai”. Technical Service report No. R&D 02-TSP-4360-CR-01, December 2018.

32. Srinivasan,P., Saibabu, S., V. Ramesh Kumar, A.K. Farvaze Ahmed and Vimal Mohan, Report on Investigation on first floor jack arch roof and recommendation for retrofitting measures, Consultancy Project report No. R&D 02 – CNP6497– SR – 01, March 2017
33. Srinivasan P., Vimal Mohan, V. Ramesh Kumar and V. Bhasya “Condition Assessment of RC and Steel Structures/Buildings of the Power Plant at NTPC, Rihand through Visual Inspection”, Consultancy Project report No. R&D 02-CNP-6493-SR-01, March 2017.
34. Srinivasan P., Vimal Mohan, N. Cinitha and S. Sarvanan “Condition Assessment of RC and Steel Structures/Buildings of the Power Plant at NTPC, Vindychal through Visual Inspection”, Consultancy Project report No. R&D 02-CNP-6513-SR-01, March 2017.
35. Srinivasan P., and Vimal Mohan “Ultrasonic testing of bearing pedestals, North Chennai Thermal Power station”, Consultancy Project report No. R&D 02-CNP-6513-SR-01, March 2017.
36. G. S. Palani, M. Saravanan and Vimal Mohan, “Conditional Assessment of steel Chimneys and WHRDs at NTPC, Jhanor through Visual inspection. Consultancy Project report No. R&D 02-CNP-6495-SR-01, March 2017.
37. G. S. Palani, B H Bharath kumar, Farvaze Ahmed and Vimal Mohan, “Conditional Assessment of RCC and Steel Structures of power plant at NTPC, Ramagundam through Visual inspection. Consultancy Project report No. R&D 02-CNP-6506-SR-01, March 2017.
38. Srinivasan P., and Vimal Mohan, “Condition assessment of TG foundation columns and pedestals and recommendation for remedial measurement, Chennai”. Sponsored Project report No. R&D 02-SSP-206-CR-01, May 2017.
39. Srinivasan P., and Vimal Mohan, “Ultrasonic testing of bearing pedestals, North Chennai Thermal power station, Chennai”. Consultancy Project report No. R&D 02-CNP-6511-CR-01, May 2017.
40. Srinivasan P., and Vimal Mohan, “Condition Assessment of Overhead Water Tank and Recommendation for Remedial Measures of NITTTTR, Chennai”. Consultancy Project report No. R&D 02-CNP-6546-SR-01, May 2017.

41. Srinivasan P., Vimal Mohan, and S.Saibabu “Structural adequacy of the proposed extension of TV tower including condition assessment of RCC cap slab & shaft and recommendation for strengthening measures at DDK, Dibrugarh. Consultancy Project report No. R&D 02-CNP-6526-SR-01, August 2017.
42. Srinivasan P., Vimal Mohan, and S.Saibabu “Report on the evaluation of fire damaged TG deck slab and pedestals of Unit-III at NTECL, Vallur and recommendations for remedial measures. Consultancy Project report No. R&D 02-CNP-6546-SR-01, August 2017.
43. Srinivasan P., and Vimal Mohan, “Condition Assessment of Tower foundation at DDK, Shillong”. Consultancy Project report No. R&D 02-CNP-6529-SR-01, August 2017.
44. Srinivasan P., Saibabu, Sand Vimal Mohan, “Condition Assessment of TG foundation at VSTPP”. Consultancy Project report No. R&D 02-CNP-6565-SR-01, August 2017.
45. Srinivasan P., and Vimal Mohan, “Condition Assessment of Tower foundation at DDK, Itanagar”. Consultancy Project report No. R&D 02-CNP-6530-SR-01, August 2017.
46. Parivallal, S, Arunsundaram B, Kesavan, K Farvaze Ahmed, AK, Vimal Mohan and Murthy, SGN “Smart sensor-based health assessment of constructed facilities completion report”, R&D 02-MLP-18341-RR-12, September 2017.
47. Cinitha, Vimal Mohan, G.S. Palani, Site Inspection of 150m AIR and TV Tower at Asansol, R&D03–CNP654341-CR-01, December 2017 Srinivasan, P., Saibabu, S, Murthy, SGN and Vimal Mohan “State of the art Report on Non-Contact NDT using Aerial Robots”, R&D 02-OLP-19641-RR-01, October 2017.
48. Vimal Mohan, Parivallal, S., Kesavan, K., Arun Sundaram, B., Farvaze Ahmed, A.K. and Ravisankar, K “Autoregressive moving average for tested time series data” R&D 02-MLP 18341-RR-07, May 2016. Arun Sundaram, B., Parivallal, S., Kesavan, K., Farvaze Ahmed, A.K., Vimal Mohan and Ravisankar, K., “Development of computational tools for data compression in wireless sensor networks”, R&D 02-MLP 18341-RR-08, June 2016

49. Srinivasan, P., Gopalakrishnan, N, and Vimal Mohan Condition Assessment of the Portion of a RCC Gallery Structure and Suggestions for Retrofitting Measures Madras Cricket Club, Sponsored Research Project report No R&D 02 – SSP 185–SR – 01, June 2016.
50. Srinivasan P.,Vimal Mohan, S.Saibabu, N. Cinitha and S.Saibabu “Condition Assessment of RC and Steel Structures/Buildings of the Power Plant at NTPC, Mouda through Visual Inspection”. Consultancy Project report No. R&D 02-CNP-6507-SR-01, July 2016.
51. Kesavan, K., Parivallal, S., Arun Sundaram, B., Farvaze Ahmed, A.K., Vimal Mohan and Ravisankar, K., “Studies on corrosion monitoring in bacterial concrete using FBG sensors”, R&D 02-MLP-18341-RR-06, August 2016.

## PROFESSIONAL MEMBERSHIP

- ICI – Life Member
  - INDT – Life Member
  - NACE-Life Member
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## REFERENCES

**Prof. N. Anandvalli (Director)**  
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