

Curriculum Vitae



Name: Dr.TOTAN GARAI

Assistant Professor

Department of Mathematics,

Syamsundar College, Syamsundar, Purba

Bardhaman, West Bengal-713424, India.

Affiliated Institute (as a PhD Supervisor):

1. The University of Burdwan, Burdwan, West Bengal, India.
2. The University of Kalyani, Kalyani, West Bengal, India.

Education:

1. B.Sc in Mathematics from The University of Burdwan in 2011
2. M.Sc in Mathematics from Indian Institute of Technology, Madras in 2013
3. PhD in Mathematics from Indian Institute of Engineering Science and Technology, Shibpur in 2018

Teaching Experiences:

1. Assistant Professor at Syamsundar College from Nov, 2019 to Till Date
2. Assistant Professor at Silda Chandra Sekhar College from Mar, 2017 to Nov 2019
3. Guest Faculty at Netaji Subhas Open University, India from January, 2019 to July, 2019

Research Experiences:

1. **Number of PhD Student:** 1 (Awarded) & 1 (Ongoing)
2. **Number of Published Paper:** 38 (36,SCI & Scopus)
3. **Number of Published Book:** One
4. **Number of Communicated/In Production paper:** 6(Six).
5. **Number of Paper presented in Conference:** 10 International (Turkey, France Bangkok, Bangladesh, India) and 3 National Conferences.
6. **Total number of Journal IF in 2024:** 80+
7. **Google Scholar Citation :** 693+ ; H-Index: 17; I-Index: 25

Research Interest:

1. **Operations Research**
2. **Fuzzy Sets and Systems**
3. **Fuzzy Decision Making**
4. **Water Resource Management**
5. **Waste Management**

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DOB: 06.03.1991

Important Links:

Google Scholar:

<https://scholar.google.com/citations?user=ZtRfhxcAAAAJ&hl=en>

ORCID: <https://orcid.org/0000-0002-0476-6447>

Scopus Author ID: [57195412392](https://orcid.org/0000-0002-0476-6447)

College Web Page:

<https://syamsundarcollege.ac.in/members/1243>

Award Received:

- a. Selected for the 'Young Scientist award' presentation by Indian Science Congress Association (ISCA) under Government of India (2023).
- b. International Travel Support (ITS) by DST-Science and Engineering Research Board (SERB), 2022.
- c. National Eligibility Test by CSIR-UGC (2014).
- d. Rajiv Gandhi National Fellowship by University of Grant Commissions (UGC), 2014.
- e. Indian Institute of Technology (IIT)-JAM by IIT (2011).

PhD Details:

PhD in Mathematics (in science) (16 Aug, 2018)

Institution: Indian Institute of Engineering Science and Technology, Shibpur.

Title of Thesis: Studies on Possibility and Necessity Measures with Application in Imprecise Inventory Models.

PhD Supervisor: Prof. **Tapan Kumar Roy**, Department of Mathematics, Indian Institute of Engineering Science and Technology, Shibpur, Howrah-71103, India.

Period: from Feb, 2014 to Aug, 2018.

Working as a PhD Supervisor:

1. **Name:** Dr. Sourav Kumar Giri,

Thesis Title: Some inventory models under imprecise uncertain environments

Institute: Department of Mathematics at University of Kalyani, West Bengal, India

Awarded Date: June, 2024

Journal Editor:

1. Franklin Open (Associate Editor)
2. Frontiers in Sustainability (Associate Editor)
3. American Journal of Computational Mathematics (Associate Editor).
4. American Journal of Operations Research
5. Journal of Intelligent Systems in Current Computer Engineering,
6. Neutrosophic Systems with Applications.
7. Decision Making and Analysis

Guest Editor

1. **Special Issue Title:** [Computational decision-making techniques for sustainable waste management](#)

Guest Editors: Dr. Totan Garai (*Lead Guest Editor*), Prof. Cengiz Kahraman, Prof. Selcuk Cebi and Dr. Xiaohong Pan

Journal Reviewer:

1. Information Sciences (Elsevier)
2. Expert Systems with Applications (Elsevier)
3. Engineering Applications of Artificial Intelligence (Elsevier)
4. Applied Soft Computing (Elsevier)

5. Computers & Electrical Engineering (Elsevier)
6. Internet of Things (Elsevier)
7. Alexandria Engineering Journal (Elsevier)
8. Franklin Open (Elsevier)
9. Journal of Engineering Research (Elsevier)
10. Socio-Economic Planning Sciences (Elsevier)
11. Sustainable Production and Consumption (Elsevier)
12. Physics and Chemistry of the Earth, Parts A/B/C (Elsevier)
13. Technological Forecasting and Social Change (Elsevier)
14. Systems and Soft Computing (Elsevier)
15. Transportation Research Part E: Logistics and Transportation Review (Elsevier)
16. Computers in Biology and Medicine (Elsevier)
17. Advances in Computational Intelligence (Springer)
18. Granular Computing (Springer)
19. Journal of ambient intelligence & humanized computing (Springer)
20. Journal of optimization theory and applications (Springer)
21. Soft Computing (Springer)
22. Journal of Optimization Theory and Applications (Springer)
23. Journal of Uncertainty (Springer)
24. Discover Applied Sciences (Springer)
25. Discover Data (Springer)
26. Process integration and optimization for sustainability (Springer)
27. Journal of Applied Mathematics and Computing (Springer)
28. International Journal of Information Technology and Decision Making (World Scientific)
29. Journal of Uncertain Systems (World Scientific)
30. The Professional Geographer (Taylor & Francis)
31. Connection Science (Taylor & Francis)
32. International Journal of Knowledge-Based Development (Inderscience)
33. International Journal of Intelligent Engineering Informatics (Inderscience)
34. International Journal of Computational Systems Engineering (Inderscience)
35. European Journal of Industrial Engineering (Inderscience)
36. International Journal of Electronic Marketing and Retailing (Inderscience)
37. International Journal of Technology Intelligence and Planning (Inderscience)
38. International Journal of Data Mining and Bioinformatics (Inderscience)
39. International Journal of Intelligent Information and Database Systems (Inderscience)
40. International Journal of Oil, Gas and Coal Technology (Inderscience)
41. Journal of Intelligent & Fuzzy Systems
42. Neutrosophic Sets and Systems
43. Journal of Intelligent Systems in Current Computer Engineering
44. American Journal of Computational Mathematics
45. Journal of Fuzzy Extension and Applications
46. American Journal of Computational Mathematics (AJCM)
47. Neutrosophic Systems with Applications
48. International Journal of Fuzzy Logic and Intelligent Systems
49. Sustainable production and consumption

50. Journal of Water Resources Planning and Management
51. Mathematics (MDPI)
52. Sustainability (MDPI)
53. Agriculture (MDPI)
54. International Journal of Molecular Sciences (MDPI)
55. International Journal of Environmental Research and Public Health (MDPI)
56. Applied Sciences (MDPI)
57. Sensors (MDPI)
58. Applied System Innovation (MDPI)
59. International Journal of Environmental Research and Public Health (MDPI)
60. International Journal of Molecular Sciences (MDPI)

Achievement in Research & Academic

A. List of the Published Papers:

1. **Totan Garai**, λ –possibility-center based MCDM technique on the control of Ganga river pollution under non-linear pentagonal fuzzy environment, Journal of Ambient Intelligence and Humanized Computing (**Springer, SCI, Scopus**), vol. 15, pp. 3243–3253, 2024.
2. Debapriya Mondal, **Totan Garai**, Gopal Chandra Roy and Shariful Alam, Evaluating the nuclear power plant safety system under neutrosophic environment, Neutrosophic Sets and Systems (**SCI, Scopus, IF: 2.49**), vol. 72, pp. 286-303, 2024.
3. Sourav Kumar Giri, **Totan Garai** and Sahidul Islam, Expected value of generalized trapezoidal bipolar fuzzy number to solve a multi-item marketing planning inventory model with allowable shortages, Franklin Open (**Elsevier, Scopus**), vol. 8, pp. 100164, 2024.
4. **Totan Garai**, Bipolar Expected Value-based MCDM Technique for Wastewater Management under Trapezoidal Bipolar Fuzzy Environment, Journal of Intelligent Systems in Current Computer Engineering (**Bentham Science Publishers**), vol. 4, pp. 1-13, 2024.
5. **Totan Garai**, George Biswas, Uttaran Santra and Sourav Kumar Giri, MCDM Method for Managing the Water Resources Based on Possibility Theory under Bipolar Fuzzy Environment, Journal of Intelligent Systems in Current Computer Engineering (**Bentham Science Publishers**), vol. 4, pp. 1-13, 2024.
6. **Totan Garai**, Harish Garg and George Biswas, A fraction ranking based multi-criteria decision-making method for water resource management (in Kolkata, India) under bipolar fuzzy (neutrosophic) environment, Artificial Intelligence Review (**Springer, SCI, Scopus, IF: 9.58**), vol. 56, pp. 14865-14906, 2023.
7. **Totan Garai**, Harish Garg and George Biswas, Possibilistic index-based multi-criteria decision-making with an unknown weight of air pollution model under bipolar fuzzy environment, Soft Computing (**Springer, SCI, Scopus, IF: 3.20**), vol. 27, pp. 17991-18009, 2023.
8. **Totan Garai** and Arpita Paul, The effect of supply disruption in a two-layer supply chain with one retailer and two suppliers with promotional effort under random demand, Journal of Management Analytics (**Taylor & Francis, SCI, Scopus, IF: 5.8**), vol. 10, pp. 22-37, 2023.

9. Sourav Kumar Giri, **Totan Garai** and Sahidul Islam, Multi-item economic production quantity model under single valued bipolar neutrosophic environment based on possibilistic theory, *Journal of Intelligent & Fuzzy Systems (IOS Press, SCI, Scopus, IF: 1.70)*, vol. 44, pp. 7059-7072, 2023.
10. **Totan Garai**, Shyamal Dalapati and Florentin Smarandache. Soft max function based neutrosophic aggregation operators and application in multi-attribute decision making problem, *Neutrosophic Sets and Systems (SCI, Scopus, IF. 2.49)*, vol. 56, pp. 1-13, 2023.
11. Arpita Paul, **Totan Garai** and Bibhas Chandra Giri, Sustainable supply chain coordination with greening and promotional effort dependent demand, *International Journal of Procurement Management (Inderscience Publishers, Scopus)*, vol. 16, pp. 196-233, 2023.
12. **Totan Garai** and Harish Garg. An interpreter ranking index-based MCDM technique for COVID-19 treatments under a bipolar fuzzy environment, *Results in Control and Optimization (Elsevier, ESCI, Scopus)* vol. 12, pp. 100242, 2023.
13. George Biswas, **Totan Garai** and Uttaran Santra, A possibility-based multi-criteria decision-making approach for artificial recharge structure selection using pentagonal fuzzy numbers, *Decision Analytics Journal (Elsevier, Scopus)*, vol. 9, pp. 100365, 2023.
14. Debapriya Mondal, **Totan Garai**, Gopal Chandra Roy and Shariful Alam, The design and evaluation of a picture fuzzy mining safety system with picture fuzzy differential equations, *Decision Analytics Journal (Elsevier, Scopus)*, vol. 9, pp. 100322, 2023.
15. **Totan Garai**, Ranking method of the generalized intuitionistic fuzzy numbers founded on possibility measures and its application to MADM problem, *Advances in Computational Intelligence (Springer)*, vol. 3, pp. 1-14, 2023.
16. Debapriya Mondal, **Totan Garai**, Gopal Chandra Roy and Shariful Alam, Application of a fuzzy differential equation system to the oil and gas industry safety model, *International Journal of Information Technology (Springer, Scopus)*, vol. 15, pp. 1243-1253, 2023.
17. **Totan Garai**, & Harish Garg, Multi-criteria decision making of water resource management problem (in Agriculture field, Purulia District) based on possibility measures under generalized single valued non-linear bipolar neutrosophic environment, *Expert Systems with Applications (Elsevier, SCI, Scopus, IF. 8.665)*, vol. 205, pp. 117715, 2022.
18. **Totan Garai**, & Harish Garg, Possibilistic multiattribute decision making for water resource management problem under single-valued bipolar neutrosophic environment, *International Journal of Intelligent Systems (Wiley Online Library, SCI, Scopus, IF. 8.993)*, vol. 37, pp. 5031-5058, 2022.
19. **Totan Garai**, & Harish Garg, Multi-criteria decision-making of COVID-19 vaccines (in India) based on ranking interpreter technique under single-valued bipolar neutrosophic, *Expert Systems with Applications (Elsevier, SCI, Scopus, IF. 8.665)*, vol. 208, pp. 118160, 2022.
20. **Totan Garai**, Arpita Paul & Dipankar Chakraborty, Pricing strategy of competing retailers in a two-layer supply chain under nonlinear stochastic demand, *International Journal of Mathematics in Operational Research (Inderscience, The American Mathematical Society, Scopus)*, vol. 23, pp. 528-544, 2022.
21. Sourav Kumar Giri, **Totan Garai**, Harish Garg, Sahidul Islam, Possibilistic mean of generalized non-linear intuitionistic fuzzy number to solve a price and quality dependent demand multi-item inventory model, *Computational and Applied Mathematics (Springer, SCI, Scopus, IF. 2.998)*, vol. 40, pp. 1-24, 2021.

22. **Totan Garai**, Shyamal Dalapati, Harish Garg, Tapan Kumar Roy, Possibility means, variance and standard deviation of single-valued neutrosophic numbers and its applications to multi-attribute decision-making problems, *Soft Computing* (**Springer, SCI, Scopus, IF. 3.732**), vol. 24, pp. 1-15, 2020.
23. **Totan Garai**, Harish Garg, & Tapan Kumar Roy, A ranking method based on possibility mean for multi-attribute decision making with single valued neutrosophic numbers, *Journal of Ambient Intelligence and Humanized Computing*, (**Springer, SCI, Scopus, IF. 7.104**), vol. 11, pp. 1-14, 2020.
24. **Totan Garai**, Dipankar Chakraborty, & Tapan Kumar Roy, Fully fuzzy inventory model with price-dependent demand and time varying holding cost under fuzzy decision variables, *Journal of Intelligent & Fuzzy Systems* (**IOS Press, SCI, Scopus, IF. 1.851**), vol. 36, pp. 3725-3738, 2019.
25. **Totan Garai**, & Harish Garg, Multi-objective linear fractional inventory model with possibility and necessity constraints under generalized intuitionistic fuzzy set environment, *CAAI Transactions on Intelligence Technology* (**IEEE Xplore, IET, Scopus, ESCI, IF. 7.985**), vol. 4(3), pp. 175-181, 2019.
26. **Totan Garai**, Dipankar Chakraborty, & Tapan Kumar Roy, A fuzzy rough multi-objective multi-item inventory model with both stock-dependent demand and holding cost rate, *Granular Computing* (**Springer, ESCI, Scopus, Web of Science**), vol. 4, pp. 71-88, 2019.
27. **Totan Garai**, Dipankar Chakraborty & Tapan Kumar Roy, A multi-item multi-objective inventory model in exponential fuzzy environment using chance-operator techniques, *The Journal of Analysis*, (**Springer, ESCI, Scopus, Web of Science, IF. 0.7**), vol. 27, pp. 867-893, 2019.
28. **Totan Garai**, Dipankar Chakraborty, Tapan Kumar Roy, Multi-objective inventory model with both stock- dependent demand rate and holding cost rate under fuzzy random environment, *Annals of Data Science* (**Springer, Scopus**), vol. 6 (1), pp. 61-81, 2019.
29. **Totan Garai**, Dipankar Chakraborty, Tapan Kumar Roy, A multi-item generalized intuitionistic fuzzy inventory model with inventory level dependent demand using possibility mean, variance and covariance, *Journal of Intelligent & Fuzzy Systems* (**IOS Press, SCI, Scopus, IF. 1.851**), 35(1), pp. 1021-1036, 2018.
30. **Totan Garai**, Dipankar Chakraborty, & Tapan Kumar Roy, Possibility–necessity–credibility measures on generalized intuitionistic fuzzy number and their applications to multi-product manufacturing system, *Granular Computing* (**Springer, Scopus, Web of Science**), vol. 3(4), pp. 285-299, 2018.
31. Dipankar Chakraborty, **Totan Garai**, Dipak Kumar Jana, & Tapan Kumar Roy, A three-layer supply chain inventory model for non instantaneous deteriorating item with inflation and delay in payments in random fuzzy environment, *Journal of Industrial and Production Engineering* (**Taylor & Francis, ESCI, Scopus, IF. 3.8**), vol. 34, pp. 407-424, 2017.
32. **Totan Garai**, Dipankar Chakraborty, & Tapan Kumar Roy, Expected value of exponential fuzzy number and its application to multi-item deterministic inventory model for deteriorating items, *Journal of Uncertainty Analysis and Applications* (**Springer**), 5(1), 8, 2017.
33. **Totan Garai**, Dipankar Chakraborty, & Tapan Kumar Roy, Arithmetic operations of trapezoidal fuzzy variable using credibility theory, *International Journal of Business Forecasting and Marketing Intelligence* (**Inderscience**), vol. 3, pp. 78-92, 2017.
34. **Totan Garai**, Dipankar Chakraborty & Tapan Kumar Roy, A multi-item periodic review probabilistic fuzzy inventory model with possibility and necessity constraints, *International Journal of Business Forecasting and Marketing Intelligence* (**Inderscience**), vol. 2, pp. 175-189, 2016.

B. List of the Conference Papers:

1. **Totan Garai**, George Biswas, Uttaran Santra, A Novel MCDM Method Based on Possibility Mean and Its Application to Water Resource Management Problem Under Bipolar Fuzzy Environment, International Conference on Intelligent and Fuzzy Systems, (Springer, Scopus), **Izmir**, Turkey, pp. 405-412, 2022
2. **Totan Garai**, A Novel Ranking Method of the Generalized Intuitionistic Fuzzy Numbers Based on Possibility Measures, International Conference on Intelligent and Fuzzy Systems (Springer, Scopus), **Izmir**, Turkey, vol. 2, pp. 20-27, 2021.
3. **Totan Garai**, Tapan Kumar Roy, A multi-objective generalized intuitionistic fuzzy linear fractional inventory model with possibility and necessity constraints, Proceedings of the International Conference on Industrial Engineering and Operations Management (IEOM Society International, Scopus) **Bangkok, Thailand**, March 5- 7, pp. 3269-3278, 2019
4. **Totan Garai**, Dipankar Chakraborty, Tapan Kumar Roy, A multi-item inventory model with fuzzy rough coefficients via fuzzy rough expectation, Conference Proceeding Mathematics & Statistics of “Frontiers in Optimization: Theory and Application”, (Springer, Scopus), vol. 225, pp. 377-394, 2016.

C. List of the Published Book:

1. **Totan Garai** & Tapan Kumar Roy, Arithmetic operation of different fuzzy variable using Credibility, LAMBERT Academic Publishing House, ISBN: 978-613-9-82587-5, (2018).

D. Paper Presented at International and National Conference

1. Paper presented at “International Society of Fuzzy Sets Extensions and Applications Conference (ISFSEA 2025)”, Paper title: MCDM on Purulia water resource management under trapezoidal fuzzy environment, May 5-6, 2025.
2. Keynote speaker “Fuzzy Multi-criteria decision making on water resource management Problem” International Conference on Mathematics, Statistics and Probability (ICOMSP-25) organized by the Institute for Sustainable Innovation & Technology (ISIT) held on 24th May 2025.
3. Presented Paper Title: Multi-criteria decision-making on drinking water resource management under fuzzy environment, International Conference on Mathematics and Applications, The University of Burdwan, Burdwan, West Bengal, India, March, 2025.
4. Keynote speaker “Possibility-Based Multi-Criteria Decision-Making on Water Resource Management Technique under Bipolar Fuzzy Environment” International Conference on Interdisciplinary Social Science Studies (ICISSS-24), Sustainable Innovation & Technology (ISIT) held on 14th August 2024.
5. Presented as a mentor with entitled “Interdisciplinary Research Methodology Course for Beginners” Organized by Research Society-Begum Rokeya University (RSBRU), Bangladesh, 2023.
6. Presented Paper Title: “A novel MCDM method based on possibility mean and its application to Water Resource Management problem under Bipolar Fuzzy environment ” in the fourth International Conferences on intelligence and fuzzy systems (INFUS-2022) from 19 July to 21 July 2022 at Yasar University, Izmir, Turkey.
7. Distinguish Lecture of a paper entitled “Assessment of Water resources management problem in an agriculture field, Purulia, India using multi-criteria decision making (MCDM) based on possibility measures under generalized single-valued non-linear bipolar neutrosophic environment” in the

conferences of Adv. ESCC 2022 on the Sept 15-16, 2022 at Paris, France.

8. Presented Paper Title: A new approach ranking method of the generalized intuitionistic fuzzy numbers based on possibility measures, Reference of Conference: International Conference on Intelligent and Fuzzy Systems, Izmir, Turkey, 2021.
9. Presented Paper Title: A Multi-objective Generalized Intuitionistic Fuzzy Linear Fractional Inventory Model with Possibility and Necessity Constraints, Reference of Conference: 9th International Conference on Industrial Engineering and Operations Management (IEOM), Bangkok, Thailand, 2019.
10. Presented Paper Title: Multi-item multi-objective inventory model with both stock-dependent demand rate and holding cost rate under fuzzy random environment. Reference of Conference: 2nd International Conference on Information Technology and Applied Mathematics, Haldia Institute of Technology, Haldia, India, 2019.
11. Presented Paper Title: Multi-objective Fuzzy Linear Fractional Inventory Model with Possibility and Necessity Constraints, Reference of Conference: National Seminar on Recent Trends in Mathematical Sciences (RTMS-2019), The University of Burdwan, India, 2019.
12. Presented Paper Title: Multi-objective Inventory Model in fuzzy environment, Reference of Conference: Recent Trends in Applied Mathematics 2018 (RTAM18), Department of Mathematics, University of Calcutta, Kolkata, India, 2018.
13. Presented Paper Title: Multi-item Inventory Model in fuzzy random environment, Reference of Conference: International Conference of Advancing Frontiers in Operational Research: Towards a Sustainable World (AFOR2017), Department of Mathematics, Heritage Institute of Technology, Kolkata, India, 2017.
14. Presented Paper Title: A multi-item inventory model with fuzzy rough coefficients via fuzzy rough expectation, Reference of Conference: International Conference on Frontiers in Optimization: Theory and Application, Department of Mathematics, Heritage Institute of Technology, Kolkata, India.

E. Professional Training/Courses:

1. Completed UGC- Sponsor Online Refresher Course in Mathematics, Theme: "Recent Trends in Analysis and its Applications" conducted by the UGC-Human Resources development Centre, Madurai Kamaraj university from 17 Aug, 2023 to 30 Aug, 2023.
2. Completed 10th Online Guru-Dakshita, Faculty Induction Programmers (FIP) days (Equivalent to Orientation program) from 19 April, 2022 to 17 May, 2022 conducted by The Human Resources Development Centre, Gujarat University, Ahmedabad.
3. Successfully completed five days of virtual Faculty Development Program (vFDP) on 'Machine Learning & Deep Learning Approach Towards Computer Vision' organized by the Department of Computer Applications (MCA), Dr. B. C. Roy Engineering College, Durgapur from 28th March to 02nd April 2022.
4. Participated in 'Virtual International Conference on Soft Computing Techniques and Cost Optimization for Inventory Modelling (SCTCOUM 2020), held on October 10-12, 2020, organized by the Department of Mathematics, Techno India University, West Bengal, in association with the office of International Programs, Techno India Group.
5. Attended five days' Workshop on 'Recent Advances in Modelling and Computational Techniques in Applied Mathematics, held by the Indian Institute of Engineering Science and Technology, Shibpur, from November 20 to November 24, 2017.

F. Professional Membership and Program Organizer:

1. **Active Member** of **International Society of Fuzzy Set Extensions and Applications (ISFSEA)**, Membership ID: 6237941
2. **Regular Member** of **Institute for Systems and Technologies of Information, Control and Communication (INSTICC)** Membership ID: 24933.
3. **Life member** of The Indian Science Congress Association (ISCA) in Mathematical Science (Membership Id No- L41676).
4. **Program committee** Member at **OLAB 2022: Optimization, Learning and Analytics in Business** at Heritage Institute of Technology, Kolkata, India, December 15-17, 2022.
5. **Program committee** Member at ICEMC 2020 :3rd International Conference on Engineering Mathematics and Computing, Haldia Institute of Technology, Haldia, India, February 5-7, 2020.

G. Software Handling

- ❖ Wolfram Mathematica,
- ❖ LINGO17.0-Optimization Modeling Software for Linear, Nonlinear, and Integer Programming,
- ❖ MATLAB,
- ❖ LATEX,
- ❖ Origin-Proprietary computer program for interactive scientific graphing and data analysis.

All the above information in my CV is true to the best of my knowledge.