

Resume



Personal Details

Name: **C. Durairajan**
Date of Birth: **10.05.1966**
Address: **107, Venkateswara Nagar, Kottapattu, Tiruchirappalli**
Email: **cdurai66@rediffmail.com / durairajanc@gmail.com**
Mobile: **9488294840 / 6382044809**
WoS Id: **<https://www.webofscience.com/wos/author/record/AAS-9121-2020>**
Orcid Id: **<https://orcid.org/0000-0001-9806-6590>**
Google Scholar Id: **<https://scholar.google.com/citations?user=aDnM90AAAAJ&hl=en>**

Academic Qualifications

- 1986–1988 **M. Sc.**, *Government College(Men) Kumbakonam*, Tamil Nadu, India
1988–1990 **M. Phil.**, *Bharathidasan University, Tiruchirappalli*, Tamil Nadu, India
1990–1996 **Ph. D.**, *Indian Institute of Technology, Kanpur*, Uttar Pradesh
○ Thesis Title: On Covering Codes and Covering Radius of some Optimal Codes
○ Under the guidance of Prof. M. C. Bandari

Research Fellowship

1990 **Awarded GATE Research Fellowship**

Teaching Experience: 30 Years

- 2021 - 2026 **Professor**, *Bharathidasan University, Tiruchirappalli*, Tamil Nadu, India
2018 - 2021 **Associate Professor**, *Bharathidasan University, Tiruchirappalli*, Tamil Nadu, India

2008 - 2018 **Assistant Professor**, *Bharathidasan University*, Tiruchirappalli, Tamil Nadu
India

2007 - 2008 **Reader**, *Periyar E. V. R. College*, Tiruchirappalli, Tamil Nadu, India

2006 - 2007 **Senior Scale Lecturer**, *Periyar E. V. R. College*, Tiruchirappalli, Tamil Nadu
India

2004 - 2006 **Associate Professor**, *Arba Minch University*, Arba Minch, Ethiopia

2000 - 2004 **Senior Scale Lecturer**, *Government Arts College*, Musiri, Tamil Nadu, India

1996 - 2000 **Lecturer**, *Government Arts College*, Krishnagiri, Tamil Nadu, India

Administrative Responsibilities

May 2024 - **Head**, *Department of Mathematics*,
May 2026 *Bharathidasan University*, Tiruchirappalli, Tamil Nadu

January 2021 **Deputy Controller of Examination(i/c)**,
- May 2024 *Bharathidasan University*, Tiruchirappalli, Tamil Nadu

Research Experience: 35 Years

Areas of Research

- Mathematical Coding Theory

Funded Research Projects

Completed Projects

S. No.	Agency	Period		Project Title	Budget
					Rs. in Lakhs
1	DST New Delhi	01.04.2010	31.03.2013	OnCovering Radius of some Optimal Codes and Covering Codes	4.01/-
2	CSIR New Delhi	01.07.2016	30.06.2019	On Covering Radius and various parameters of Z_q -Simplex Codes and Z_q -MacDonald Codes and Covering Codes	13.5/-
3	DST New Delhi	05.02.2020	31.03.2023	Construction of New Error-Correcting Codes from Graphs	6.6/-

Research Supervision/Guidance:

Program of Study		Completed	Ongoing
Research	Ph. D.	8	2
	M. Phil.	38	–
Project	PG	85	–

Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books/Chapters Monographs/Manuals
42	2	-	-	-

Cumulative Impact Factor (as per JCR)	: xxx
h index	: 9
i10 index	: 9
Total Citations	: 275

Events organized in leading roles

- [1] Organized an **International Conference in Discrete Mathematics** during 11 – 13 December, 2025 at the Department of Mathematics, Bharathidasan University, Tiruchirappalli, Tamil Nadu, supported by ANRF, New Delhi.
- [2] Organized **State Level Quiz Programme** on 27th March, 2023
- [3] Organised **Advanced Training in Mathematical Analysis** at Department of Mathematics, Bharathidasan University, Tiruchirappalli, Tamil Nadu, supported by NBHM, 31st October - 04th November, 2022
- [4] Coordinator for the **Refresher Course in Mathematics** conducted by Academic Staff College, Bharathidasan University, Tiruchirappalli, Tamil Nadu, November 25th - December 08th, 2020
- [5] Coordinator for the **Refresher Course in Mathematics** conducted by Academic Staff College, Bharathidasan University, Tiruchirappalli, Tamil Nadu, 13th July - 02nd August, 2018
- [6] Organised **Science Academies' Lecturer Workshop on Algebra** at the Department of Mathematics, Bharathidasan University, Tiruchirappalli, Tamil Nadu, supported by THREE SCIENCE ACADEMIES, August 16th - 18th, 2018
- [7] Organised **Advanced Training Programme in Mathematical Analysis** at Department of Mathematics, Bharathidasan University, Tiruchirappalli, Tamil Nadu, supported by NBHM, August 05th - 09th, 2015
- [8] Organized **State Level Quiz Programme** on 07th February, 2014
- [9] Organized **State Level Quiz Programme** on 08th February, 2013
- [10] Organized **State Level Quiz Programme** on 08th February, 2012
- [11] Organized **State Level Quiz Programme** on 15th December, 2010

Events Participated

- [1] UGC-Sponsored Two Day Workshop for Academic Administrators on Institutional Assessment and Accreditation held at UGC-HRDG & IQAC, Bharathidasan University, Tiruchirappalli, Tamil Nadu on 12-13 March, 2018
- [2] Orientation Workshop on SWAYAM jointly organized by Department of Library & Information Science and UGC-HRDC, Bharathidasan University, Tiruchirappalli, Tamil Nadu on 05th May, 2018
- [3] International Conference on Discrete Mathematics held at Department of Mathematics, Periyar University, Salem, Tamil Nadu, India during 4-7 January, 2018
- [4] An Introduction to Cryptology at NIT, Tiruchirappalli, Tamil Nadu on 01-05 November, 2017
- [5] National Workshop on Cryptology at NIT, Tiruchirappalli, Tamil Nadu on 28-30

August, 2017

- [6] 32nd Annual Conference of RMS at Belagavi, Karnataka during 23-25 June, 2017
- [7] One Day Symposium on Research and Data Analysis with Statistical Advanced Tools held at Department of Statistics, Bharathidasan University, Tiruchirappalli, Tamil Nadu on 28th March, 2017
- [8] Workshop on Innovative Curriculum Designing and Evaluation Organized by Curriculum Development Cell, Bharathidasan University, Tiruchirappalli, Tamil Nadu on 28th March, 2017
- [9] National Workshop on Cryptology at PDPM IIIT, Design & Manufacturing, Jabalpur on 13th August, 2015
- [10] UGC Sponsored National Conference on Research in Higher Education Institutions for Sustainable Development & Management Teaching Techniques at UGC Academic Staff College, Pondicherry University, Pondicherry, on 30-31 January, 2014
- [11] National Conference on Frontiers in Analysis and Differential Equations held at Department of Mathematics, Bharathidasan University, Tiruchirappalli, Tamil Nadu on 19-20 December, 2012
- [12] National Workshop on Cryptography held at School of Information Technology and Engineering, VIT University, Vellore, Tamil Nadu on 6-8 August, 2012
- [13] International Workshop on New Directions in Applied Mathematics held at the Indian Institute of Science, Bangalore during the period from 01-03 January, 2010
- [14] National Instructional Workshop on Graph Algorithms held at National College, Tiruchirappalli, Tamil Nadu during 03-07 June, 2009
- [15] State Level one day Workshop on Soft Computing in Mathematical Research held at Holy Cross College, Tiruchirappalli, Tamil Nadu on 25.01.2008
- [16] Workshop on Exam Reforms in Question Paper Setting held at Bishop Heber College, Tiruchirappalli, Tamil Nadu 07-08 March, 2007
- [17] UGC Sponsored State Level Seminar on Decision Making Techniques at A.V.V.M Sri Pushpam College(Autonomous), Poondi, Thanjavur(Dt.), Tamil Nadu on 04-05 October, 2004

Overseas Exposure/ Visits

- [1] Worked as an Associate Professor in the Arba Minch University, Ethiopia from August 2004 - September 2006
- [2] Paper presented in the Third India-Taiwan Conference on Discrete Mathematics held during November 19 - 22, 2013 at National Chiao Tung University, Hsinchu,

Taiwan

Membership in

Professional Bodies

- Life Member : Ramanujan Mathematical Society
- Life Member : Cryptological Research Society of India
- Life Member : Academy of Discrete Mathematics and Applications

Resource Person in Various Capacities

- [1] Delivered a lecture on *Applications of Mathematics* in the National Mathematics Day Celebration in the Department of Mathematics, Government Arts College, Kumbakonam, Tamil Nadu, India on 22 December, 2025
- [2] Delivered a lecture on *Codes from Incidence Matrices of Bouwer Graphs* in the International Conference on Mathematics and Data Sciences organized by Department of Mathematics, Ramakrishna Mission Vivekananda College, Chennai - 600 004, Tamil Nadu, India on 18th & 19th September, 2025.
- [3] Delivered a lecture on *Mathematical Coding Theory* in the One Day National Level Workshop on the mathematics Powering AI & Big Data organized by Department of Mathematics, ARASU College of Arts & Scienc for Women, Karur, Tamil Nadu, India on August 18, 2025.
- [4] Delivered a lecture on *Covering Problems in Codes* in the National Conference on Recent Trends in Pure and Applied Mathematics organized by Department of Mathematics, Thiruvalluvar Government Arts College, Rasipuram, Tamil Nadu, India on 23 & 24 January, 2025
- [5] Delivered a lecture on *Codes from Incidence Matrix of m -ary n -Cube with Lee Distance* in the National Conference on Mathematics and its Applications-2024 Department of Mathematics, Sri Venkateswara University Tirupati - 517502, Andhra Pradesh, India on 22 & 23, December 2024.
- [6] Delivered a lecture on *Coding Theory - It's related Problems* in the National Conference on Advances in Discrete Mathematics organized by the Malankara Catholic College, Mariagiri, Tamil Nadu, India on 26.09.2024.
- [7] An Invited Talk on *Applications in Algebra* at Guru Nanak College(Autonomous), Guru Nanak Salai, Velachery, Chennai-600042 on 02.09.2024.
- [8] Delivered a lecture on *Coding Theory and its Applications* in the National Mathematics day and Ramanujan Birth day Celebration on December 22, 2023 at Periyar University, Salem, Tamil Nadu, India.

- [9] Delivered a lecture on *Codes from the Incidence matrix of Graphs* in the International Conference on Analysis and Number Theory - 2022 jointly organized by the Department of Mathematics, Ayya Nadar Janaki Ammal College, Ramco Institute of Technology and Standard Fireworks Rajaratnam College, Sivakasi, Tamil Nadu, India, on 29th October 2022
- [10] Delivered a lecture on International Conference on Analysis and Applied Mathematics jointly organized by the Department of Mathematics, Ayya Nadar Janaki Ammal College and RIT, Sivakasi, Tamil Nadu, India, on 27th April 2022.
- [11] Delivered a lecture on *Science & Technology and Coding theory* in the Ramanujan Birth Day celebration at Sri Vijaya Didiyalay Arts and Science college, Dharmapuri, Tamil Nadu, India, on 22th December 2021
- [12] Delivered a lecture on *Covering radius of codes over finite fields* in the e - Short Term Training Programme on Algebra and Analysis during December 13 th - 18 th , 2021 at SRM Institute of Science and Technology, Kattankulathur, Tamil Nadu - 603203, on 15th December 2021
- [13] Delivered a *special lecture on Algebra and its Applications* in Jamal Mohamed College, Tiruchirappalli, Tamil Nadu - 620020, on 8th and 9th January 2021
- [14] Delivered a lecture on *Homomorphisms on Cyclic Groups* organized by PG and Research Department of Mathematics, Government College for Women (Autonomous), Kumbakonam on 31.07.2020
- [15] Delivered a lecture on *Algebra and its Applications* in the National conference on Discrete Mathematica and its Applications at Vivekanandha College of Arts and Science, Tiruchengode, Tamil Nadu, India on 12th February 2018
- [16] Delivered a lecture on *Mathematical Applications* in the National conference on Adiscrete Mathematica and its Applications at M. Kumarasamy College of Engineering, Karur, Tamil Nadu, India on 2nd March 2018
- [17] Delivered a lecture on *Algebra* in the National Workshop on Analysis and Algebra at St. Joseph College(Autonomous), Tiruchirappallii, Tamil Nadu, India on 1st March 2018
- [18] Delivered a lecture on *On the Covering Radius of Block Codes* in the National Conference on Algebra and Graph theory at St. Xavier's College(Autonomous), Palayamkottai, Tirunelveli, Tamil Nadu, India on 15th February 2018
- [19] Delivered a lecture on *Algebra, Coding Theory and Applications* in the Intercollegiate Meet at Jai Ram Arts and Science College, Salem, Tamil Nadu, India on February 1, 2018
- [20] Delivered a lecture on *Error-Correcting Codes* on the occasion of National Mathe-

- mathematics Day, 130th Birth Anniversary of Srinivasa Ramanujan held at Saranathan College of Engineering, Tiruchirappalli, Tamil Nadu, India on December 22, 2017
- [21] Delivered a lecture *on Mathematics and its Applications* in the Math Club inauguration of Theivanai Ammal College for Women, Vilipuram, Tamil Nadu on 17.08.2017
 - [22] Delivered a lecture *on Codes over Z_{p^2} and its Covering Radius* in the ADMA Annual Conference at SSN College of Engineering and Technology, Chennai during 8th June 2017 to 10th June 2017
 - [23] Delivered a lecture *on Algebra and its Application* in the Two Day Workshop on Recent Innovations in pure and applied Mathematics, Holy Cross College(Autonomous), Tiruchirappalli, Tamil Nadu on 24th November 2016
 - [24] Delivered a lecture *on Applications of Algebra* in the One Day Workshop on Recent Trends in Algebra held at Vivekanandha College of Arts and Sciences for Women, Elayampalayam, Tiruchengode, Namakkal Dt., Tamil Nadu on 16th February 2015
 - [25] Delivered a lecture *on Recent Advancements in Mathematics* in the UGC Sponsored National Seminar held at Thiru Kolanjiappar Government Arts College, Virudhachalam, Tamil Nadu on 13.02.2015
 - [26] Delivered a lecture *on Codes over the integer Modulo q* in the National Seminar on Modern Trends in Mathematics held at Rabiammal Ahamed Maideen College for Women, Tiruvarur, Tamil Nadu on 28th February & 1st March 2014
 - [27] Delivered a lecture *on Error-Correcting Codes* in International Conference on Recent trends in Discrete Mathematics and its Applications to Science and Engineering held at Peiyar Maniammai University, Vallam, Thanjavur, Tamil Nadu on 3rd December, 2013
 - [28] Presented a research paper on *On Codes over Z_q where q is even integer and its Covering Radius* in the India-Taiwan Conference on Discrete Mathematics held at National Chiao Tung University, Hsinchu, Taiwan during 19.11.2013 to 22.11.2013
 - [29] Delivered a lecture *on Mathematical Coding theory and its Applications* in the National Level Seminar held at Vivekanandha College of Arts and Sciences for Women, Tiruchenkodu, Tamil Nadu 01.03.2013
 - [30] Delivered a lecture *on Algebraic Coding* in the National Level Seminar on Recent Technical Sources of Applied Mathematics at Vivekanandha College of Arts and Sciences for Women, Tiruchenkodu, Tamil Nadu 26.02.2010
 - [31] Delivered a lecture *on An Introduction to Coding Theory* in the National

Seminar on Recent advancements in Mathematics held at Government Arts College(Autonomous), Kumbakonam, Tamil Nadu on 21st and 22nd December 2009

- [32] Delivered a lecture on *Development of Mathematics in Engineering Field* in two day National Level Seminar on the concept of Basic Education -BRAINY 2009 at A. V. C. College of Engineering Mayiladuthurai, Tamil Nadu on 27.02.2009 & 28.02.2009

List of Publications

- [1] X. Juliet Gokila and C Durairajan. A study of fundamental parameters in linear error-correcting codes associated with $a(n, k)$. *The Bioscan*, 21(1):25106 – 25127, 2026.
- [2] X. Juliet Gokila, C Durairajan and R. Theivaraman. An analysis of fundamental parameters of graph-based linear error-correcting codes. *The Bioscan*, 21(2):1005 – 1025, 2026.
- [3] R Gokul, G Karthick, C Durairajan, S Çalkavur. Skew polycyclic codes over $f_q + uf_q + vf_q + uvf_q$. *Discrete Mathematics, Algorithms and Applications*, <https://doi.org/10.1142/S1793830926500564>, 2026.
- [4] Gokul Radhakrishnan, Karthick Gowdhaman, Mahalakshmi Jothi Ramanujam, Cruz Mohan, Durairajan Chinnappillai. Eaqec codes from polycyclic codes over the ring. *Journal of Algebra Combinatorics Discrete Structures and Applications*, 13(2):225–234, 2026.
- [5] Cruz Mohan, Karthick Gowdhaman, Gokul Radhakrishnan, Durairajan Chinnappillai, Irfan Siap. Skew cyclic codes over a finite non-chain ring and an application. *Journal of Algebra Combinatorics Discrete Structures and Applications*, 13(2):253–271, 2026.
- [6] R. Saranya, X. Juliet Gokila, R. Dhanalakshmi, C. Durairajan. Codes from incidence matrices of (n, k) -arrangement graph for $n = 2k$ and folded n -cube graph. *Discrete Mathematics, Algorithms and Applications*, <https://doi.org/10.1142/S1793830926500400>, 2026.
- [7] R Gokul, G Karthick, M Cruz, C Durairajan, Giuliano G La Guardia. Quantum codes from the polycyclic codes. *J. Appl. Math. & Informatics*, 43(5):1533–1548, 2025.

- [8] K Gowdhaman, C Mohan, C Durairajan, S Çalkavur and P Solé. Skew cyclic and skew constacyclic codes over a mixed alphabet. *Axioms*, 13(6), 2024.
- [9] Cruz Mohan, Karthick Gowdhaman, Durairajan Chinnappillai and Jian Gao. Gray images of constacyclic codes over a non-chain extension of $\mathbb{Z}_4$. *Algebra Colloquium*, 31 (1):11–24, 2024.
- [10] B. Rega and C. Durairajan. A note on $(3, 1)$ and $(3, 2)$ separating systems and bound for $(3, 1)$ separating system. *Discrete Mathematics, Algorithms and Applications*, 15(7):<https://doi.org/10.1142/S179383092250149X>, 2023.
- [11] N. Annamalai and C. Durairajan. Codes from the incidence matrices of a zero-divisor graphs. *Journal of Discrete Mathematical Sciences and Cryptography*, pages 1–9, 2022.
- [12] J. Prabu, J. Mahalakshmi, C. Durairajan and S. Santhakumar. On some punctured codes of z_q -simplex codes. *Discrete Mathematics, Algorithms and Applications*, 14(6):<https://doi.org/10.1142/S1793830922500124>, 2022.
- [13] R. Saranya and C. Durairajan. Codes from incidence matrices of $(n, 1)$ -arrangement graphs and $(n, 2)$ -arrangement graphs. *Journal of Discrete Mathematical Sciences and Cryptography*, 25(2):373–393, 2022.
- [14] N. Annamalai and C. Durairajan. Linear codes from incidence matrices of unit graphs. *Journal of Information and Optimization Sciences*, 42(8):1943–1950, 2021.
- [15] N. Annamalai and C. Durairajan. Exponent of cyclic codes over f_q . *Journal of Discrete Mathematical Sciences and Cryptography*, <https://doi.org/10.1080/09720529.2021.1933707>:1–6, 2021.
- [16] G. Karthick, Somi Gupta, M. Cruz, Kenza Guenda and C. Durairajan. Cyclic dna codes over the ring $z_4 + uz_4 + u^2z_4$. *Journal of Algebra Combinatorics Discrete Structures and Applications*, 8(3):219–231, 2021.
- [17] N. Annamalai, Anandhu Mohan and C. Durairajan. Additive tridiagonal codes over f_4 . *arXiv preprint arXiv:2104.05405*, 2021.
- [18] R. Dhanalakshmi and C. Durairajan. Bounds on r -identifying codes in q -ary lee space. *Contributions to Discrete Mathematics*, 16(1):53–71, 2021.

- [19] B. Rega and C. Durairajan. The q-ary intersecting for $(a, a + b)$ -construction code. *Malaya Journal of Matematik*, 9(1):399–401, 2021.
- [20] B. Rega, ZH Liu and C. Durairajan. The t-wise intersection and trellis of relative four-weight codes. *Cryptography and Communications*, 13:197–223, 2021.
- [21] G. Karthick, M. Cruz, C. Durairajan and J.Gao. Construction of quantum codes from λ -constacyclic codes over the ring $f_q[u, v]/\langle v^3 - v, u^3 - u, uv - vu \rangle$. *Journal of Applied Mathematics and Computing*, 65:611–622, 2021.
- [22] R. Saranya and C. Durairajan. Codes from incidence matrices of some regular graphs. *Discrete Mathematics, Algorithms and Applications*, 13(04):<https://doi.org/10.1142/S179383092150035X>, 2021.
- [23] G. Karthick, M. Cruz, C. Durairajan and Guardia Giuliano G. LA. Quantum product codes over the ring $f_p + uf_p$. *Advances in Mathematics*, 9(12):11097–11108, 2020.
- [24] N. Annamalai and C. Durairajan. On covering radius of codes over $\mathbb{Z}_{2p}$. *Asian-European Journal of Mathematics*, 13(02), 2020.
- [25] M. Cruz, C. Durairajan and P. Solé. On the covering radius of codes over $\mathbb{Z}_{p^k}$. *Mathematics*, 8(3), 2020.
- [26] M. Cruz and C. Durairajan. Skew-constacyclic codes over r . *Malaya Journal of Matematik*, 84(4):1502–1508, 2020.
- [27] R. Dhanalakshmi and C. Durairajan. Constructions of r -identifying codes and $(r, \leq l)$ -identifying codes. *Indian Journal of Pure and Applied Mathematics*, 50(2):531–547, 2019.
- [28] N. Annamalai and C. Durairajan. On codes over $\mathbb{Z}_{p^2}$ and its covering radius. *Asian-European Journal of Mathematics*, 12(2), 2019.
- [29] R. Dhanalakshmi and C. Durairajan. On r -identifying codes in binary hamming space, q-ary lee space and incomplete hypercube. *Discrete Mathematics, Algorithms and Applications*, 11(2):<https://doi.org/10.1142/S179383091950027>, 2018.
- [30] N. Annamalai, C. Durairajan and V. Marka. Quaternary linear intersecting codes. *International Journal of Pure and Applied Mathematics*, 113(7):129 – 136, 2017.

- [31] N. Annamalai and C. Durairajan. Relative two-weight z_2z_4 -additive codes. *International Journal of Computer & Mathematical Sciences*, 5(11):30–34, 2016.
- [32] N. Annamalai and C. Durairajan. The structure of $z_2[u]z_2[u, v]$ -additive codes. *International Conference on Electrical, Electronics, and Optimization Techniques (ICEEOT) - 2016, Special Issue*, 2016.
- [33] J. Mahalakshmi and C. Durairajan. On the z_q -macdonald code and its weight distribution of dimension 3. *Journal of Mathematical and Computational Science*, 6(2):173–187, 2016.
- [34] P. ChellaPandian and C. Durairajan. On the covering radius of codes over Z_4 with chinese euclidean weight. *International Journal on Information Theory*, 4(4):19–25, 2015.
- [35] C. Durairajan and J. Mahalakshmi. On codes over integers modulo q . *Advances and Applications in Discrete Mathematics*, 15(2):125–143, 2015.
- [36] P. Chella Pandian and C. Durairajan. On various parameters of z_q -simplex codes for an even integer q ,. *Algebra and Discrete Mathematics*, 19(2):243–253, 2015.
- [37] P. Chella Pandian and C. Durairajan. On z_q -linear and z_q -simplex codes and its related parameters for q is a prime power. *Journal of Discrete Mathematical Sciences and Cryptography*, 18(1-2):81–94, 2015.
- [38] C. Durairajan, J. Mahalakshmi and P. Chella Pandian. On the z_q -simplex codes and its weight distribution for dimension 2. *Discrete Mathematics, Algorithms and Applications*, 7(3):<https://doi.org/10.1142/S1793830915500305>, 2015.
- [39] Manish K. Gupta and C. Durairajan. On the covering radius of some modular codes. *Advances in Mathematics of Communications*, 8(2):129–137, 2014.
- [40] P Chella Pandian and C. Durairajan. On the covering radius of some codes over $r = z_2 + uz_2$ where $u^2 = 0$,. *IMPACT: International Journal of Research in Applied, Natural and Social Sciences*, 2(1):61–70, 2014.
- [41] C. Durairajan. Construction of new codes and its related parameters. *Journal of Discrete Mathematical Sciences & Cryptography*, 15(6):47–61, 2012.
- [42] Mahesh C Bhandari and C. Durairajan. A note on covering radius of macdonald codes. *Proceedings ITCC 2003. International Conference on Information Technology: Coding and Computing*, pages 221–225, 2003.

- [43] M. C. Bhandari and C. Durairajan. On the covering radius of simplex codes. *Journal of Discrete Mathematical Sciences and Cryptography*, 6(1):59–69, 2003.
- [44] M. C. Bhandari and C. Durairajan. A note on bounds for q -ary covering codes. *IEEE Transactions on Information Theory*, 42(5):1640–1642, 1996.