

## Short CV

Dr. Krishnan Paramasivam

Associate Professor

Department of Mathematics

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### Education

1. Ph.D. - Indian Institute of Technology Madras, Chennai.  
Year: 2003-2008 CGPA: 9.3/10 (Ph.D. course work)
2. Master of Philosophy (Mathematics) - Madurai Kamaraj University, Tamil Nadu.  
Year: 2001-2002 Class: First with distinction (80.7%)
3. Master of Science (Mathematics) - Madurai Kamaraj University, Tamil Nadu.  
Year: 2000-2001 Class: First with distinction (83.0%)
4. Bachelor of Science (Mathematics) - Madurai Kamaraj University, Tamil Nadu.  
Year: 1996-1999 Class: First with distinction (82.1%)

### Recognition and awards

1. Received the South India's most inspiring Young Teachers Award (40 under 40) by the Edex, The New Indian Express, South India, May 2017.
2. Awarded the Indian Institute of Technology Madras research scholarship (2003 - 2008)
3. Awarded the UGC - Junior Research Fellowship (JRF) in 2003.
4. Qualified in the Joint CSIR-UGC National Educational Testing (NET) for Lectureship in 2002.
5. Won the gold medal for having secured the overall first place in B.Sc. Mathematics during the academic year 1996-99.
6. Secured overall 2nd place in M.Sc. Mathematics during the academic year 1999-2001.
7. Completed M.Sc. Project as a part of dissertation work, supported by Tamil Nadu State Council of Science and Technology, Chennai. Supervisor: Dr. KM Kathiresan, Director, Center for Graph Theory, Ayya Nadar Janaki Ammal College (Sivakasi), Tamil Nadu during 200-2001

### Work experience

1. Associate Professor, Department of Mathematics, NIT Calicut. (2022-till date.)
2. Assistant Professor (Grade I), Department of Mathematics, NIT Calicut. (2018-2021).
3. Assistant Professor (Grade II), Department of Mathematics, NIT Calicut. (2011-2018)

### Recent journal publications: (SCI or SCIE Indexed)

1. (MR4515472) A characterization of group vertex magic trees of diameter up to 5  
*Australasian Journal of Combinatorics*, 85(1), 49-60, 2022.
2. (MR4373606) Quasimagic rectangles  
*Journal of Combinatorial Designs*, 30(3), 193-202, 2022. (Wiley)  
<https://doi.org/10.1002/jcd.21820>
3. (MR4381286) Zero-divisor graph of semisimple group-rings.  
*Journal of Algebra and its Applications*, 21(2) 2022, Paper No. 2250028. pp 14.  
<https://doi.org/10.1142/S0219498822500281>
4. (MR4233788) Note on group distance magicness of product graphs  
*Contributions to Discrete Mathematics* 16(1), 72-88, 2021.  
<https://doi.org/10.11575/cdm.v16i1.67834>
5. (MR4240959) On distance magic Harary graphs  
*Utilitas Mathematica*, 115, 251-266, 2020.
6. (MR4145437) On group vertex magic graphs  
*AKCE International Journal of Graphs and Combinatorics*, 17(1), 461-465, 2020.  
<https://doi.org/10.1016/j.akcej.2019.04.001>

### Recent book chapters (SCOPUS Indexed)

1. **MR3991220** A note on handicap incomplete tournaments. In: Colbourn C., Grossi R., Pisanti N. (eds) *Combinatorial Algorithms, 30<sup>th</sup> International Workshop on Combinatorial Algorithms (IWCCA 2019)*, University of Pisa, Italy. *Lecture Notes in Computer Science*, 11638. 1-9, Springer Cham, 2019. (with A V Prajeesh, N Kamatchi) [https://doi.org/10.1007/978-3-030-25005-8\\_1](https://doi.org/10.1007/978-3-030-25005-8_1)
2. A characterization for  $V_4$ -vertex magicness of trees with diameter 5. In: Awasthi A., John S.J., Panda S. (eds) *Computational Sciences - Modelling, Computing and Soft Computing (CSMCS 2020)*, Communications in Computer and Information Science, 1345. Springer, Singapore. (with Kollaran M S, A V Prajeesh)  
[https://doi.org/10.1007/978-981-16-4772-7\\_19](https://doi.org/10.1007/978-981-16-4772-7_19)

### Recent proceedings of International conferences (SCOPUS Indexed)

1. On  $(a, d)$ -distance antimagicness of disconnected two regular graphs, AIP Conference Proceedings, 2336, 050007, 2021.(with A V Prajeesh, Md. Sabeel K)  
<https://doi.org/10.1063/5.0045783>.
2. Maximal super edge-magic graph and its strength, AIP Conference Proceedings, 2336, 050006, 2021. (with T Sreehari, Janitha K)  
<https://doi.org/10.1063/5.0045778>

### Preprints in arXiv

1. Distance magic index of certain partite graphs. arXiv:2209.00997, 2022

2. Distance magic index one graphs, arXiv:1808.0095, 2018
3. Notes on group distance magicness of product graphs, arXiv:1808.01631, 2018
4. On distance magic Harary graphs, arXiv:1809.07382, 2018

### **Selected International and National conference/workshop talks**

1. (Contributed talk) On coloring Boolean algebra and Boolean semigroup, 25<sup>th</sup> Colloquium on Combinatorics, November 16-18, 2006, Otto van Guericke University, Magdeburg, Germany.
2. (Contributed talk) On coloring of commutative semiring 11th Workshop on Graph Theory (Coloring Independence and Dominations), September 18-23, 2005, University of Zielona Góra, Karpacz, Poland.
3. (Invited talk) Coloring of certain commutative semigroups, UGC Sponsored Two Day National Seminar on Recent Trends in Distance in Graphs (sponsored by U.G.C.), March 12-13, 2012, Ayya Nadar Janaki Ammal College, Tamil Nadu.
4. (Invited talk) Super edgemagic strength of graphs with more cycles, National Seminar on Discrete Mathematics, March 20-21, 2014, University of Calicut, Kerala.
5. (Invited talks) Graph theory and its applications to communication networks, 14 days AICTE sponsored FDTP on soft Computing techniques for engineering research, June 8-21, 2015, Sri Ramakrishna Engineering College, Coimbatore, Tamil Nadu.
6. (Invited talk) Zero-divisor graph of commutative algebraic structures, Two day national seminar on some recent research directions in graph theory (sponsored by NBHM), March 9-10, 2017, Ayya Nadar Janaki Ammal College, Tamil Nadu.

### **My past and present Ph.D. scholars**

1. **A V Prajeesh** (2015-2021) Ph.D. thesis: Partial solutions to certain graph labeling open problems. Currently, he is an Asstant Professor, Amrita Vishwa Vidyapeetham, Kollam Campus, Kerala.
2. **Muhammed Sabeel K** (2016-2022) Ph.D. thesis: On metric dimension and determining number of zero-divisor graphs. Currently, he is an Assistant Professor, TKM College of Engineeriing, Kerala.
3. **Karthik S** (2022-on going)

### **Dissertation of M.Sc./M.Sc.(Tech.)/MS Guidance**

1. More than 20 students.

### **List of courses handled**

1. At PG (M.Sc./M.Tech./MCA) level:
  - (a) Graph theory and combinatorics, Number theory, Discrete mathematics, Applied mathematics, Linear algebra, Abstract algebra,

2. At UG (B.Tech.) level:

- (a) Calculus of single variable and multi-variables, Topics in algebra, Graph Theory and its applications, Ordinary differential equations.

**References/Colloborators**

**Dr. Dalibor Froncek**

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University of Minnesota Duluth, 1117 University Dr, Duluth, MN 55812-3000, USA.  
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**Dr. B. S. Panda**

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