Name : Dr.Bijo S. Anand

Designation : Assistant Professor

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Educational Qualification : M.Sc., Ph.D.

Area of Interest : Graph Theory

Specialisation : Graph Products, Graph Convexity, Graph Domination,

Metric Graph Theory.

Research Experience : 14 Years on 01-07-2022

**PUBLICATIONS**

**Peer-Reviewed Journal Articles**

1. **Bijo S. Anand**, Dourado, M. C., Prasanth G. Narasimha-Shenoi.&Ramla, S. S. (2021). On the ∆-interval and the∆-convexity numbers of graphs and graph products. Discrete Applied Mathematics, 319 (2022) 487–498.
2. **Bijo S. Anand**, Manoj Changat, Prasanth G. Narasimha-Shenoi& Joseph, M. S. T. (2021). Boundary-type sets ofstrong product of directed graphs. ARS MATHEMATICA CONTEMPORANEA, 20(2), 275–288.2021
3. **Bijo S. Anand**, [S. V. UllasChandran](https://dblp.org/pid/50/9679.html), [Manoj Changat](https://dblp.org/pid/26/5331.html), [Mitre Costa Dourado](https://dblp.org/pid/51/4736.html), [FerdoosHosseinNezhad](https://dblp.org/pid/175/7217.html), [Prasanth G. Narasimha-Shenoi](https://dblp.org/pid/07/8048.html): On the Carathéodory and exchange numbers of geodetic convexity in graphs. [Theor. Comput. Sci. 804](https://dblp.org/db/journals/tcs/tcs804.html" \l "AnandCCDNN20): 46-57 (2020).
4. **Bijo S. Anand**, [Arun Anil](https://dblp.org/pid/277/7643.html), [Manoj Changat](https://dblp.org/pid/26/5331.html), [Mitre Costa Dourado](https://dblp.org/pid/51/4736.html), [SabeerSainRamla](https://dblp.org/pid/257/1391.html):Computing the hull number in Δ-convexity. [Theor. Comput. Sci. 844](https://dblp.org/db/journals/tcs/tcs844.html" \l "AnandACDR20): 217-226 (2020)
5. **Bijo S. Anand**, [Prasanth G. Narasimha-Shenoi](https://dblp.org/pid/07/8048.html), [SabeerSainRamla](https://dblp.org/pid/257/1391.html):  
   $\Delta $-Convexity Number and $\Delta $-Number of Graphs and Graph Products. [CALDAM 2020](https://dblp.org/db/conf/caldam/caldam2020.html#AnandNR20): 209-218
6. **Bijo S. Anand**, [S. V. UllasChandran](https://dblp.org/pid/50/9679.html), [Manoj Changat](https://dblp.org/pid/26/5331.html), [Sandi Klavzar](https://dblp.org/pid/25/6468.html), [Elias John Thomas](https://dblp.org/pid/242/1735.html):Characterization of general position sets and its applications to cographs and bipartite graphs. [Appl. Math. Comput. 359](https://dblp.org/db/journals/amc/amc359.html#AnandCCKT19): 84-89 (2019)
7. **Bijo S. Anand**, [Manoj Changat](https://dblp.org/pid/26/5331.html), [S. V. UllasChandran](https://dblp.org/pid/50/9679.html):  
   The Edge Geodetic Number of Product Graphs. [CALDAM 2018](https://dblp.org/db/conf/caldam/caldam2018.html#AnandCC18): 143-154
8. **Bijo S. Anand**, [Manoj Changat](https://dblp.org/pid/26/5331.html), [Prasanth G. Narasimha-Shenoi](https://dblp.org/pid/07/8048.html):  
   Helly and exchange numbers of geodesic and Steiner convexities in lexicographic product of graphs. [Discret. Math. Algorithms Appl. 7(4)](https://dblp.org/db/journals/dmaa/dmaa7.html" \l "AnandCN15): 1550049:1-1550049:12 (2015)
9. **Bijo S. Anand**, [Manoj Changat](https://dblp.org/pid/26/5331.html), [IztokPeterin](https://dblp.org/pid/14/4998.html), [Prasanth G. Narasimha-Shenoi](https://dblp.org/pid/07/8048.html):  
   Some Steiner concepts on lexicographic products of graphs. [Discret. Math. Algorithms Appl. 6(4)](https://dblp.org/db/journals/dmaa/dmaa6.html" \l "AnandCPN14) (2014)
10. **Bijo S. Anand,**KannanBalakrishnan, Manoj Changat and IztokPeterin, Atoms And Clique Separators in Graph Products, Applicable Analysis and Discrete Mathematics [Vol. 6(1)](https://www.jstor.org/stable/i40147149), 46-62(2012)
11. **Bijo S. Anand**, [Manoj Changat](https://dblp.org/pid/26/5331.html), [Sandi Klavzar](https://dblp.org/pid/25/6468.html), [IztokPeterin](https://dblp.org/pid/14/4998.html):  
    Convex Sets in Lexicographic Products of Graphs. [Graphs Comb. 28(1)](https://dblp.org/db/journals/gc/gc28.html#AnandCKP12): 77-84 (2012)

**Reviewer**

1. **AMS**(American Mathematical Society)
2. [**zbMATH**- ZentralblattMath](https://zbmath.org/)
3. Discussiones Mathematicae Graph Theory

**AWARDS AND HONOURS**

2017- Indian Mathematical Conference Prize, for securing highest percentage of marks in M.Sc. Mathematics-2006**.**

**INVITED TALKS**

1. National Seminar on Number Theory, Discrete Mathematics, and their Applications, Organised by Department of Mathematics, Sree NarayanaCollege, Nattika, Thrissur, Kerala, India, Sponsored by UGC, 18th and 19th February 2016

**Papers Presented**

1. **Bijo S. Anand**, Prasanth G. NarasimhaShenoi, Inverted Distance and Graph Products, National Conference on Discrete Structures and its Applications (ASA-2016) , Department of Mathematics, LBS Institute of Tecnology for Women , Thiruvananthapuram, Kerala.29th and 30th September 2016.

# [Bijo S. Anand](https://www.worldscientific.com/doi/abs/10.1142/S1793830914500608), [Manoj Changat](https://www.worldscientific.com/doi/abs/10.1142/S1793830914500608), [IztokPeterinPrasanth G. Narasimha-Shenoi](https://www.worldscientific.com/doi/abs/10.1142/S1793830914500608), Some Steiner concepts on lexicographic products of graphs, Indo-Slovenia Conference on Graph Theory and Applications(Indo-Slov 2013), Organized by Department of Futures Studies, University of Kerala in association with Graph Theory Research Group, University of Maribor and Institute of Mathematics, Physics and Mechanics, Lubljana, Slovenia, 22nd to 24th February 2013.

1. [**Bijo S. Anand**](https://www.worldscientific.com/doi/abs/10.1142/S1793830914500608), KannanBalakrishnan, [Manoj Changat](https://www.worldscientific.com/doi/abs/10.1142/S1793830914500608), [IztokPeterin](https://www.worldscientific.com/doi/abs/10.1142/S1793830914500608), Atoms and Clique Separators in Graph Products, International Workshop on Graph Products: Structure and Algorithms, Organized by Department of Futures Studies University of Kerala, in association with Department of Science and Technology, Government of India, Institute of Mathematics, Physics and Mechanics, Lubljana and Ministry of Science, Technology and Education, Government of Slovenia, 7th and 8th February 2012

**Poster Presentations**

1. **Bijo S. Anand**, Manoj Changat, Atoms and Clique Separator in Graph Products, ICRTGC-International Conference on Recent Trends in Graph Theory and Combinatorics,(A Satellite Conference of the International Congress of Mathematics-ICM 2010 ), Department of Mathematics Cochin University of Science and Technology, Cochin 12-15 August 2010

**Research Students**

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| --- | --- | --- |
| **Name of the scholar** | **Year of registration of the scholar** | **Title of the thesis for scholar** |
| Sabeer Sain R | 2018 | Studies on Transit Functions and Convexities on Graph Products |