



**UNIVERSITAS INDONESIA**

Faculty of Mathematics and Natural Sciences

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**STAFF HANDBOOK**

|  |   |                             |                         |
|--|---|-----------------------------|-------------------------|
| <b>Name</b>  | <b>Denny Riama Silaban</b>  |                             |                         |
| <b>Expertise</b>   | <b>Graph Theory and Combinatoric<br/>Combinatorial Optimization</b>   |                             |                         |
| <b>Academic career</b>   |   | <b>Institution</b>          | <b>Year</b>             |
|  | Undergraduate degree  | Universitas Indonesia       | 1992                    |
|  | Master degree   | Universitas Indonesia       | 2001                    |
|  | Doctoral degree   | Institut Teknologi Bandung  | 2018                    |
|  | Post-doctoral   |                             |                         |
| <b>Employment</b>  | <b>Position</b>   | <b>Employer</b>             | <b>Period</b>           |
|  | Lecturer  | Universitas Indonesia       | 1 Mar 1993 - 1 Jan 2001 |
|  | Assistant Professor   | Universitas Indonesia       | 1 Jan 2001 - 1 May 2011 |
|  | Associate Professor   | Universitas Indonesia       | 1 May 2011 - now        |
|  | Head of Academic Quality Assurance Unit   | FMIPA Universitas Indonesia | 2017 – now              |
| <b>Research and development projects over the last 5 years</b> | <ol style="list-style-type: none"> <li>1. PUTI Prosidng, "Size Ramsey Number Graph of Small Order", Period 2020, Partner Peter John, Amount of financing Rp. 23.000.000</li> <li>2. STEM PUTI UI Research Grant, "Local Antimagic Super Total Vertex Labeling", 2020, Rp. 17.500.000,-</li> <li>3. PITTA B, "Rainbow Coloring and Odd Harmonious Labeling Classes of Graph", Period 2019, Partner Kiki Ariyanti Sugeng, Amount of financing Rp. 90.000.000</li> <li>4. Q1Q2 PITTA UI Research Grant," Rainbow Coloring", Period 2019, Partner Kiki Ariyanti Sugeng, Amount of financing Rp. 246.300.000,-.</li> <li>5. PITTA B, "Characteristic Polynomial and Eigen Values of Matrix Representation of Graph", Period 2019, Partner Siti Aminah, Amount of financing Rp. 90.000.000</li> <li>6. PITTA B, "Graceful and Irregular Graph Labeling", Period 2018, Partner Kiki Ariyanti Sugeng, Amount of financing Rp. 81.000.000</li> </ol> |                             |                         |
| <b>Industry collaborations over the last 5 years</b>           | Electronic Journal of Graph Theory and Applications, Managing Editor, 2016-now  |                             |                         |
| <b>Patents and proprietary rights</b>                          | <b>Title</b><br>Riset Operasional, Universitas Terbuka, Djati Kermi and Denny Riama Silaban   | <b>Year</b><br>2010         |                         |

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|--|---|-------------------------|-----------------------------|
| <b>Important publications over the last 5 years</b>          | <ol style="list-style-type: none"> <li>1. <b>Denny Riama Silaban</b>, Edy Tri Baskoro, Saladin Uttunggadewa, Restricted size ramsey number involving matching and graph of order five, nam Journal of Mathematical and Fundamental Sciences, Journal of Mathematical and Fundamental Sciences. (2020) 52, 2, p. 133-142.</li> <li>2. <b>Denny Riama Silaban</b>, Edy Tri Baskoro, Saladin Uttunggadewa, On the restricted size Ramsey number for P3 versus dense connected graphs, Electronic Journal of Graph Theory and Applications, Electronic Journal of Graph Theory and Applications, (2020) 8, 2, p. 383 – 389.</li> <li>3. <b>Denny Riama Silaban</b>, Edy Tri Baskoro, Saladin Uttunggadewa, On the restricted size Ramsey number involving a path P_3, Discussiones Mathematicae - Graph Theory. (2019) 39, 2, p. 741-755.</li> <li>4. <b>Denny Riama Silaban</b>, Edy Tri Baskoro, Saladin Uttunggadewa, Ramsey number for path of order three versus graph of order five, Electronic Journal of Graph Theory and Applications, (2017) 5, 1, p. 155-162.</li> <li>5. F. F. Hadiputra, <b>Denny Riama Silaban</b>, Infinite Family of Ramsey (K1,2,C4)-minimal Graphs, Journal of Physics: Conference Series, (2021) 1722, 1, 012049.</li> </ol> |                         |                             |
| <b>Scholar UI ID</b>   | <a href="https://scholar.ui.ac.id/en/persons/denny-riama-silaban">https://scholar.ui.ac.id/en/persons/denny-riama-silaban</a>   |                         |                             |
| <b>Activities in specialist bodies over the last 5 years</b> | <b>Organization</b>   | <b>Role</b>             | <b>Period</b>               |
|  | Indonesian Combinatorial Society  | Secretary               | 2017-2019,<br>2019 - now    |
|  | Indonesian Combinatorial Society  | Treasury                | 2013-2015,<br>2015-2017     |
|  | Indonesian Mathematical Society   | Central Board<br>Member | 2016 – 2018,<br>2018 – 2020 |