

- Scheduling with the Firefly algorithm produces a mean tardiness of 0.12 days or 1 day from the previous 11.36 days or 12 days or a decrease of 98.94%.

References

- [1] P. Lopez, F. Rouvellat, *Production Scheduling*. London, UK: ISTE Ltd, 2008.
- [2] Bedworth D., Bailey J., “*Sequence Scheduling*” dalam buku *Integrated Production Control Systems*, New York, United States : John Wiley & Sons, Inc., 2009.
- [3] U. Chakraborty, “Scheduling Practice and Recent Developments in Flow Shop and Job Shop Scheduling” dalam buku *Computational Intelligence in Flow Shop and Job Shop Scheduling*, Saint Louis, USA: Springer, 2009, pp. 264-272.
- [4] W. Lunardi, H. Voos, *An Extended Flexible Job Shop Scheduling Problem with Parallel Optimization*, vol. 18, no.2, 2018.
- [5] M. K. A. Ariyaratne, T. G. I . Fernando, *A Comparative Study on Nature Inspired Algorithms with Firefly Algorithm*, Volume 4 No. 10, October, 2014.
- [6] Baker, Kenneth R., *Principle of Sequencing and Scheduling*, Hoboken, New Jersey: John Wiley & Sons, Inc, 2009, pp. 200-213.

Biography / Biographies

Sumiharni Batubara is a lecturer in the Department of Industrial Engineering, Faculty of Industrial Technology, Trisakti University, Jakarta, Indonesia. She received her Bachelor’s Degree in Industrial Engineering from Institut Teknologi Bandung in 1980 and completed her Master’s Degree in Industrial Engineering and Management from Institut Teknologi Bandung in 1989. Now, she is the Coordinator for Production Planning and Inventory Control Module and Industrial Manufacturing Design Module. Her research interest is in production planning and inventory control, scheduling, and lean manufacturing.

Debbie Kemala Sari is a lecturer in the Department of Industrial Engineering, Faculty of Industrial Technology, Trisakti University, Jakarta, Indonesia. She received her Bachelor’s Degree in Industrial Engineering from Universitas Islam Indonesia in 1998 and completed her Master’s Degree in Business Administration from Gadjah Mada University in 2010 and her Master’s Degree in Industrial Engineering from Indonesia University in 2015. Now, she is the Coordinator for Quality Control Module and Manufacturing Process Module. Her research interest is in production planning and inventory control, scheduling, quality control, supply chain.

Raden Roro Sindyastuti S is a student in the Department of Industrial Engineering, Faculty of Industrial Technology, Trisakti University, Jakarta, Indonesia. She is a laboratorium assistant on Production Planning and Inventory Control Module and Industrial Manufacturing Design Module. Her research interest is in production planning and inventory control and scheduling