



# CURRICULUM VITAE

## I. BIODATA

Name : **Antoni Wibowo**  
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Nationality : Indonesia.  
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## II. EDUCATIONS BACKGROUND

1. **Dr. Eng.**, Department of Systems and Management Sciences, Graduate School of Systems and Information Engineering, University of Tsukuba, Japan, July 2009.
2. **M.Eng.**, Department of Social Systems and Management Sciences, Graduate School of Systems and Information Engineering, University of Tsukuba, Japan, March 2006.
3. **M.Sc.**, Department of Computer Science, University of Indonesia, Jakarta, Indonesia, August 2000.
4. **B.Sc./B.Eng.**, Mathematics Engineering, Department of Engineering, Sebelas Maret University, Surakarta, Indonesia, June 1995.

## III. AREA OF INTERESTS

1. Machine Learning/Computational Intelligence/Artificial Intelligence/Fuzzy Logic.
2. Data Mining/Business Intelligence.
3. Optimization in Industry/Manufacturing.
4. Statistics/Intelligent Data Analysis.
5. Computer Graphics/Image Processing
6. Operation Research/ Mathematical Programming.
7. Mathematical Modeling.
8. Cybernetics.

#### IV. PUBLISHED PAPERS

##### V.1. INTERNATIONAL JOURNALS (CUMULATIVE IMPACT FACTORS=6.273)

1. **A. Wibowo**, M.I. Desa, “*Kernel Based Regression and Genetic algorithms for Estimating Cutting Conditions of Surface Roughness in End Milling Machining Process*”, Expert System with Applications, Elsevier, 2012 (Impact Factor 2.193).
2. H.R. Cheshmehgaz, M.I. Desa, **A. Wibowo**, “*An effective model of multiple-objective evolutionary algorithms with the assistance of regional multi-objective evolutionary algorithms: VIPMOEs*”, Accepted in Applied Soft Computing, Elsevier, 2012 (Impact Factor: 2.100).
3. N. Ibrahim, **A. Wibowo**, “*Prediction of Water Level in Dungun River Using Partial Least Squares Regression*“, International Journal of Basic & Applied Sciences, Vol 12, Issue 02, April 2012.
4. S.H. Arbain, **A. Wibowo**, “*Time Series Methods for forecasting the Water Level in Dungun River in Terengganu, Malaysia*“, International Journal of Engineering Science and Technology, Vol 4, Issue 4, April 2012.
5. S. Bozorgirad, M.I. Desa, **A. Wibowo**, “*Genetic Algorithm Enhancement to Solve Multi Source Multi Product Flexible Multistage Logistics Network*“, International Journal of Computer Science Issues (IJCSI), Volume 9, Issue 3, May 2012 (Impact Factor: 0.24).
6. F. A. Rahman, M.I. Desa, **A. Wibowo**, “*Preliminary analysis of Crisp KDD on Tire Maintenance Decision Making*“, International Journal of Advancements in Computing Technology, 2012.
7. **A. Wibowo**, Y. Yamamoto, “*A Note on Kernel Principal Component Regression*” To appear in Computational Mathematics and Modeling, Springer, 2012.
8. **A. Wibowo**, M.I. Desa, “*Robustness of Kernel Principal Component Analysis Based  $\alpha$ -Regression Quantile, LMS and LTS Using Genetic Algorithms*“, Journal of Computing, Volume 3, Issue 12, December 2011 (Impact Factor: 0.21).
9. **A. Wibowo**, M.I. Desa, “*Kernel Based Nonlinear Weighted Least Squares Regression*“, Journal of Computing, Volume 3, Issue 11, November 2011 (Impact Factor: 0.21).
10. **A. Wibowo**, M.I. Desa, “*Nonlinear Robust Regression Using Kernel Principal Component Analysis and R-Estimators*“, International Journal of Computer Science Issues (IJCSI), Vol. 8, Issues 5, September 2011 (Impact Factor: 0.24).
11. H.R. Cheshmehgaz, M.I. Desa, **A. Wibowo**, “*A flexible three-level logistic network design considering cost and time criteria with a multi-objective evolutionary algorithm*“, Journal of Intelligent Manufacturing, Springer, 2011 (Impact Factor: 1.08).
12. **A. Wibowo**, “*Nonlinear robust prediction in ridge regression model based on M-estimation*“, Computational Mathematics and Modeling, Volume 20, Number 4 / October, Springer USA, 2009.

**V.2. INTERNATIONAL CONFERENCES/DISCUSSION PAPERS.**

1. L.A. Wulandari, **A. Wibowo**, M.I. Desa, "*Hybrid Neural Network-Genetic Algorithms Approach for Fault Diagnosis of Bearing System*", Proceeding of Industrial Engineering and Service Science, Indonesia, 2011.
2. F. A. Rahman, M.I. Desa, **A. Wibowo**, "*Data Mining Application for Effective Vehicle Fleet Tire Maintenance Strategy*", Proceeding of Industrial Engineering and Service Science, Indonesia, 2011.
3. F. A. Rahman, M.I. Desa, **A. Wibowo**, "*A review of KDD-data mining Framework and Its applications in logistics and transportation*", Proceeding of International Conference on Networked Computing and Advanced Information Management, South Korea, 2011.
4. N. Ogawa, Y. Takano, Y. Yamamoto, **A. Wibowo**, "*Non-Negative Matrix Factorization in Image Feature Extraction*", Mathematical Programming in the 21<sup>st</sup> Century: Optimization Modeling and Algorithms, Kyoto, Japan, 2008 (Paper in Japanese).
5. **Wibowo**, "*Robust prediction in kernel principal component regression based on M-estimation*", Dept. Systems and Information Engineering, Univ. of Tsukuba, 2008.
6. **Wibowo**, "*An Algorithm for Nonlinear Weighted Least Squares Regression*", Systems and Information Engineering, Univ. of Tsukuba, JAPAN, 2008.
7. **Wibowo**, Y. Yamamoto, "*The New Approach for Kernel Principal Component Regression*", Dept. Systems and Information Engineering, Univ. of Tsukuba, JAPAN, 2008.
8. Subandar, **A. Wibowo**, "*Development of natural resources accounting in Indonesia: current status*", The Agency for the Assessment and Application of Technology, Indonesia, 2003.
9. Subandar, **A. Wibowo**, "*Regional planning development on the basis of natural resources accounting using dynamic modeling*", Conference of Natural Resources Accounting at Gajah Mada University, Yogyakarta, Indonesia, 2002.
10. **Wibowo**, "*Implementation macro spreadsheet (MS Excel) program for linear programming using simplex method*", Proceedings of the 2001 International Conference On Electrical, Electronics, Communication and Information (CECI 2001), Jakarta, Indonesia 2001.
11. **Wibowo**, W.S. Nugroho, "*Prediction waves behavior on the railroad track due to generated high speed moving train using an explicit Runge Kutta method: Indonesia case study*", Proceedings of the 2001 International Conference On Electrical, Electronics, Communication and Information (CECI 2001), Jakarta, Indonesia 2001.
12. **Wibowo**, W.S. Nugroho, "*Waves analysis on the railroad track due to generated high speed moving train*", Proceedings of The 2000 FTUI Quality in Research (QIR), Vol. II, p. II-2-7-1, University of Indonesia, Jakarta, Indonesia 2000.

### V.3. SEMINARS

1. L.W. Loon, **A. Wibowo**, M.I. Desa, “*Heuristic Approach for Generalized Quadratic Assignment Problem*”, Proceeding of Postgraduate Annual Research Seminar (PARS 2011), Operations Business Intelligence (OBI) Research Group, Universiti Teknologi Malaysia.
2. L.A. Wulandari, **A. Wibowo**, M.I. Desa, “*Robust Hybrid Meta-Heuristic Based Algorithm for Precise And Effective Condition Monitoring And Assessment of Bearing System*”, Proceeding of Postgraduate Annual Research Seminar (PARS 2011), Operations Business Intelligence (OBI) Research Group, Universiti Teknologi Malaysia.
3. H.R. Cheshmehgaz, M.I. Desa, **A. Wibowo**, “*A Distributed Computing Environment For Multi-Objective Evolutionary Algorithms*”, Proceeding of Postgraduate Annual Research Seminar (PARS 2011), Operations Business Intelligence (OBI) Research Group, Universiti Teknologi Malaysia.
4. F. A. Rahman, M.I. Desa, **A. Wibowo**, “*An Improvement of Knowledge Discovery Database (KDD) Framework for Effective Decision*”, Proceeding of Postgraduate Annual Research Seminar (PARS 2011), Operations Business Intelligence (OBI) Research Group, Universiti Teknologi Malaysia.

### V. REVIEWER

1. Reviewer for *Neural Computation and Applications*, Springer.
2. Reviewer for *Postgraduate Annual Research Seminar (PARS) 2011*, Universiti Teknologi Malaysia.
3. Reviewer for *International Conference on Computer and Information Sciences 2012 (ICCIS 2012)*, Universiti Teknologi Petronas, Malaysia.

### VI. PROJECTS

1. 1<sup>st</sup> July 2011 – 31<sup>st</sup> June 2013: **Project Leader** of *Kernel Based Nonlinear Robust Regressions Using Meta-Heuristic Techniques*, Fundamental Research Grant Scheme (FRGS), Ministry of Higher Education, Malaysia.
2. 1<sup>st</sup> April 2011 – 31<sup>st</sup> March 2012: **Project Leader** of *Development of Nonlinear Robust Prediction Algorithms in Regression Models Based on Kernel Methods*, Research University Grant Scheme, Universiti Teknologi Malaysia.
3. 1<sup>st</sup> December 2011 – 31<sup>st</sup> November 2012: **Project Leader** of *Development Of Nonlinear Classification Algorithm Using The Hybrid Of Genetic Algorithm (GA), Fuzzy Logic Controller (FLC) And Support Vector Machine (SVM)*, Research Visitor Grant Scheme, Universiti Teknologi Malaysia.
4. 1<sup>st</sup> July 2011 – 31<sup>st</sup> June 2013: **Researcher** of *Multi Objective Rostering Problem For On Call Doctors Using Hybrid Genetic Algorithms*, Fundamental Research Grant Scheme (FRGS), Ministry of Higher Education, Malaysia.

5. 1<sup>st</sup> April 2011 – 31<sup>st</sup> March 2012: **Researcher** of *Multi Objective Rostering Problem For On Call Doctors Using Hybrid Genetic Algorithms*, Research University Grant Scheme, Universiti Teknologi Malaysia.
6. 1<sup>st</sup> April 2011 – 31<sup>st</sup> March 2012: **Researcher** of *Hybrid Meta-heuristic Approach To Quadratic Assignment Problem*, Research University Grant Scheme, Universiti Teknologi Malaysia.
7. 1<sup>st</sup> April 2011 – 31<sup>st</sup> March 2012: **Researcher** of *Robust Hybrid Meta-Heuristic Approach to Defect Diagnosis of a Critical System*, Research University Grant Scheme, Universiti Teknologi Malaysia.

## VII. AWARDS

1. **Monbukagakusho Fellowship (Japan)** for PhD program (1<sup>st</sup> April 2006-31<sup>st</sup> March 2009).
2. **Monbukagakusho Fellowship (Japan)** for Master program (1<sup>st</sup> October 2002-31<sup>st</sup> March 2006).
3. **QUE Project (World Bank)** for Master Program (1998-1999).
4. **Supersemar Fellowship** for Undergraduate Program (1993-1995).

## VIII. ORGANIZATION MEMBERS

1. **Member**, *Natural Resources and Environment Accounting Society of Indonesia*, Jakarta, Indonesia.
2. **Member**, *Soft-computing Society of Indonesia*, Jakarta, Indonesia.
3. **Member**, International Association of Computer Science and Information Technology (IACSIT).
4. **Member**, International Association of Engineers (IAENG).

I certify that above statements made by me in this form are true and correct to the best of my knowledge.

Date : 7 May 2012

Signature:

