CURRICULUM VITAE

I.   BIODATA
Name   : **Antoni Wibowo**
Current Position : Senior Lecturer, Faculty of Computer Science and Information Systems, Universiti Teknologi Malaysia, Johor, Malaysia.
Phone   : +60-137102940 (Malaysia),
                     +62-856-40107717 (Indonesia).
Nationality   : Indonesia.
Religion   : Moslem.
Date of Birth   : 18th March 1972.
Email   : antoni@utm.my, a.wibowo2003@gmail.com

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 α-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 21st 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. 1st July 2011 – 31st 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. 1st April 2011 – 31st 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. 1st December 2011 – 31st 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. 1st July 2011 – 31st 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. 1st April 2011 – 31st March 2012: **Researcher** *of Multi Objective Rostering Problem For On Call Doctors Using Hybrid Genetic Algorithms*, Research University Grant Scheme, Universiti Teknologi Malaysia.
6. 1st April 2011 – 31st March 2012: **Researcher** *of Hybrid Meta-heuristic Approach To Quadratic Assignment Problem*, Research University Grant Scheme, Universiti Teknologi Malaysia.
7. 1st April 2011 – 31st 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 (1st April 2006-31st March 2009).
2. **Monbukagakusho Fellowship** (**Japan**) for Master program (1st October 2002-31st 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:**