

Arie W. Wijayanto

Curriculum Vitae

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Profile

I am a PhD student at Department of Computer Science, Tokyo Institute of Technology, Japan. My research lies in the field of machine learning and network science with an emphasis on massive scale graph analytics, graph protection, deep reinforcement learning, and efficient deep neural networks.

Education

- 2016-Present **Ph.D in Computer Science**, Tokyo Institute of Technology, Japan.
- 2013-2015 **M.Sc in Computer Science**, Bandung Institute of Technology, Indonesia, Thesis Title: *Improvement of Fuzzy Geo-Demographic Clustering using Metaheuristic Optimization on Indonesia Population Census*. CumLaude.
- 2004-2008 **B.App.Sc. in Statistical Computation**, Institute of Statistics, Jakarta, Indonesia, Thesis Title: *Design and Implementation Expert System Data Analysis with Java Expert System Shell* (In Bahasa Indonesia).

Journal Publications

- J2 Arie W. Wijayanto, Tsuyoshi Murata: *Pre-emptive spectral graph protection strategies on multiplex social networks*. Applied Network Science 04/2018; 3(1). Springer
- J1 Arie W. Wijayanto, Ayu Purwarianti, Le Hoang Son: *Fuzzy geographically weighted clustering using artificial bee colony: An efficient geo-demographic analysis algorithm and applications to the analysis of crime behavior in population*. Applied Intelligence 03/2016; 44(2). Springer

International Conference Publications (Peer-reviewed)

- C7 Arie W. Wijayanto, Tsuyoshi Murata: *Flow-Aware Vertex Protection Strategy for Large Social Network*. IEEE/ACM International Conference on Advances in Social Networks Analysis and Mining (ASONAM) 2017, Sydney. 08/2017
- C6 Arie W. Wijayanto, Siti Mariyah, Ayu Purwarianti: *Enhancing Clustering Quality of Fuzzy Geographically Weighted Clustering using Ant Colony Optimization*. International Conference on Data and Software Engineering (ICoDSE) 2017, Palembang.
- C5 Atut Pindarwati, Arie W. Wijayanto: *Measuring Performance Level of Smart Transportation System in Big Cities of Indonesia (Comparative Study: Jakarta, Bandung, Medan, Surabaya, and Makassar)*. International Conference on Information Technology Systems and Innovation (ICITSI) 2015, Bandung, Indonesia. 11/2015.

- C4 Arie W. Wijayanto, Ayu Purwarianti: *Improvement of Fuzzy Geographically Weighted Clustering using Particle Swarm Optimization*. International Conference on Information Technology Systems and Innovation (ICITSI) 2014, Bandung. 11/2014.
- C3 Arie W. Wijayanto, Takdir: *Fighting Cyber Crime in Email Spamming: An Evaluation of Fuzzy Clustering Approach to Classify Spam Messages*. International Conference on Information Technology Systems and Innovation (ICITSI) 2014, Bandung. 11/2014.
- C2 Arie W. Wijayanto, Ayu Purwarianti: *Improvement Design of Fuzzy Geo-demographic Clustering using Artificial Bee Colony Optimization*. The 3rd International Conference on Information Technology for Cyber & IT Service Management (CITSM) 2014, Jakarta. 11/2014.
- C1 Arie W. Wijayanto, Suhardi: *Service Oriented Architecture Design using SOMA for Optimizing Public Satisfaction in Government Agency Case Study: BPN - National Land Authority of Indonesia*. International Conference on ICT for Smart Society (ICISS) 2014, Bandung. 09/2014.

Domestic Conference Publications

- D1 Arie Wahyu Wijayanto: *Desain Sistem Terintegrasi Analisis Persepsi Publik pada Media Sosial Berbasis Internet of Thing untuk Pendukung e-Government Studi Kasus : Badan Pusat Statistik* (In Bahasa Indonesia). e-Indonesia Initiatives (eII-Forum) 2014, Bandung; 06/2014.

Invited Talks

- 2015 Lecturer on *Data Mining: Neural Network, Fuzzy Logic and Fuzzy Clustering* at Institute of Statistics (STIS) , Jakarta, Indonesia. July 2015.
- 2014 Trainer on *Web Development Training using Code Igniter Framework* at IPTEK.NET, Puspiptek Badan Pengkajian dan Penerapan Teknologi (BPPT) , Serpong, Indonesia. June 2-5, 2014
- 2014 Invited Speaker on *Service Oriented Architecture Overview* at IPTEK.NET, Puspiptek Badan Pengkajian dan Penerapan Teknologi (BPPT), Serpong, Indonesia. September 2, 2014.

Works Experience

- 2017-present Research Assistant, Murata Laboratory, Tokyo Institute of Technology
- 2009-present Regional Accounts IT Developer, Statistics Indonesia (BPS)

Honors & Awards

- 2016-present Scholarship for PhD degree: Indonesia Endowment Fund for Education (LPDP)
- 2013-2015 Scholarship for Master degree: BPS Postgraduate Scholarship
- 2006 Finalist in Bina Nusantara Programming Contest for College Student (BNPCCS)
- 2004-2008 Scholarship for Undergraduate study from the Indonesian government at the Institute of Statistics, Jakarta

Academic Service

- 2018 Program Committee of Workshop on Knowledge Graphs and Semantics for Text Retrieval and Analysis (KG4IR) 2018
- 2017 Reviewer of IEEE International Conference on Data Mining (ICDM) 2017
- 2016 Reviewer of IEEE International Conference on Data Mining (ICDM) 2016

Skills

Programming Python, Matlab, Java, PHP, JavaScript.
Framework Tensorflow, Caffe, CodeIgniter, Yii