



**Universitas Brawijaya,
Malang, East Java
Indonesia**



Profile:

Ir. Achmad Wicaksono, M.Eng., Ph.D

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RESEARCH INTERESTS:

Achmad Wicaksono has research expertise, includes transport policy, urban transport planning, public transport system and management, terminal design, railway engineering, airport engineering, travel behavior, traffic demand management, transportation system management, sustainable transportation system, higher education development, and quality assurance.

QUALIFICATIONS AND PROFESSIONAL EXPERIENCES:

Achmad Wicaksono has taken his undergraduate in the civil engineering department of Universitas Brawijaya (1986-1990) and completed his bachelor with Cumlaude. In 1992, he started his career as a lecturer in the Civil Engineering Department of Universitas Brawijaya (U.B.). Then, he was continuing study and get a degree of Master's in Engineering from the Asian Institute of Technology (AIT), Bangkok-Thailand, in the field of Transportation Engineering (1993-1995). Finally, he took his Ph.D. from the Urban Engineering Department of The University of Tokyo in Japan (1995-1998). After finishing his Ph.D., he got the position as Head of Master Study Program in Civil Engineering, Faculty of Engineering, U.B. (1998-2003). In 2001, he was also held as Head of Transportation Laboratory and the Head of Research and Community Service, Faculty of Engineering U.B. (2001-2003). Then he was elected as the Head of Civil Engineering Department (2003-2007); after that, he was elected as Vice Dean of Academic Affairs, Faculty of Engineering U.B. (2007-2009). In 2010, he was appointed as a member of the Quality Assurance Centre of U.B., and then became the Head of Quality Assurance Centre for three years (2013-2016). As the new organization happened in U.B., then he became the Secretary of the Institute of Education Development and Quality Assurance (2016-2017). He holds the U.B. Institute of Education Development and Quality Assurance (LP3M) Chairman position for four years (2017-2021). Now, he has become the Attache of Education and Culture Affairs at the Indonesian Embassy of Bangkok. He also has experienced in joining several short courses. First, he joined the short course in Off-Shore Construction Design at Universitas Gadjahmada (1992). After he got his doctoral degree, he took a short course program of Teaching Improvement Workshop (TIW) held by Universitas Brawijaya (2002). He follows the short course in

Curriculum Development held by The University of Kentucky (2008). He recently took an OBE-Outcome Based Education Training by ASEAN University Network for Quality Assurance (AUN-QA) in August 2018.

ESTEEM INDICATORS /AWARDS:

- Best Undergraduate Student of Faculty of Engineering, Universitas Brawijaya (1990).
- The Barbara and John Hugh Jones Award from AIT, Bangkok as the best student in transportation engineering (1995)
- Best Lecturer of Universitas Brawijaya (2000)
- Supervisor of several Doctoral students in Institute Technology Sepuluh Nopember, Surabaya
- External examiner (Doctoral degree) for Institute Technology Bandung, Institute Technology Sepuluh Nopember Surabaya, Universitas Gadjahmada, Yogyakarta and Hasanuddin University, Makassar.
- Member of National Higher Education Quality Assurance Development Team, Ministry of Education, Culture, Research and Technology, Republic of Indonesia

MENTORING AND SUPERVISION:

He has extensive experience of Doctoral and Masters program student supervision in the Civil Engineering Department, Faculty of Engineering U.B., Doctoral student of Environment Programme at School of Post Graduate U.B., Doctoral Student in Institute Technology of Sepuluh Nopember, Surabaya. He has supervised more than twenty-five completed Ph.D. students and currently has about fifteen Doctoral students.

RESEARCH EXPERIENCES:

In the year 2000, he has an opportunity to join a consultation company of Mott Mc Donald for a project of GMURNS (Greater Malang Urban Road Network Study), following by the project of (GMTMPTS) Greater Malang Traffic Management and Public Transport Study in the year 2001. Starting from 2000, he also headed a research team for East Java Province Regional Planning Office (Bappeda). His work includes the feasibility study of East Java Southern-link Highway from Pacitan to Banyuwangi, transport masterplan of East Java Province, and several feasibility studies of the airport, port, railway link, tollway. Research Grant from the Ministry of Education has been taken for a study on motorcycle behavior of Malang Area, development of Nganjuk Tourism Area, and joined research with several researchers from Surabaya National University (UNESA).

Start in 2014 with several researchers from Japan and ASEAN Countries; he has joined an International Research Group of Eastern Asia Society of Transport Research (EASTS) with the title of study "Viability of Public Transport Harmonizing System with Para-Transit Modes." In 2020, he joined the other International Research Group on Travel Behavior with Lecturer from Universiti Teknologi Petronas, Malaysia.

SELECTED RESEARCH FUNDING:

- Mott Mc Donald (Greater Malang Urban Road Network Study), 2000
- Mott Mc Donald (Greater Malang Traffic Management and Public Transport Study), 2001
- East Java Province Regional Planning Office (Feasibility Study of East Java Southern-link Highway, Feasibility Study of Jember and Banyuwangi Airport, Malang Metropolitan Transportation Masterplan, Feasibility Study of Probolinggo-Lumajang Tollroad, Feasibility Study of Alternative Road of Trenggalek – Ponorogo) 2000-2018.

- Ministry of Education (A Study on Motorcycle Behaviour of Malang Area, Development of Nganjuk Tourism Area and several Joint Collaboration Research with UNESA), 2009 – 2017.
- Toshiba Corporation ("Viability of Public Transport Harmonizing System with Para-Transit Modes), 20014-now

RESEARCH OUTPUTS:

Author of more than 100 peer-reviewed national and international journal articles.(Google Scholar H Index = 9, i10 index = 7 and 441 citations and Scopus H Index = 2; as of June 2021)

SELECTED PUBLICATIONS:

Achmad Wicaksono, Yasunori Muromachi, Noboru Harata, Katsutoshi Ohta (1998) Boarding Place and Access Mode Choice Analysis of Intercity Bus Passenger, *Journal of Infrastructure Planning Review* (15).

Wicaksono, Achmad, Harata, Noboru, Ohta, Katsutoshi (1998) Behavioral analysis on intercity bus terminal - a case study of Probolinggo City, Indonesia. *Proceedings of the Conference on Traffic and Transportation Studies, ICTTS*, pp. 556-565. **(Scopus Index)**

Wicaksono, A. (2009) The social cost of traffic congestion air pollution (A case study on Ahmad Yani street, Surabaya), *Journal of Lowland Technology International (LTI)*, 11 (2), pp. 53-67. **(Scopus Index)**

Achmad Wicaksono, Lasmini Ambarwati, Amelia Kusuma Indriastuti (2010) A Comparison of Accident Characteristics in Highland and Lowland Regions, *Journal of the Eastern Asia Society for Transportation Studies* (8).

Silitonga, S.P., Sulistio, H., Djakfar, L., **Wicaksono, A** (2011) Modal split model for public transport development in Indonesia. *Journal of Applied Sciences Research*, 7 (12), pp. 2036-2041. **(Scopus Index)**

I Wayan Suweda, **Achmad Wicaksono**, Indrasurya Budisatria Mochtar (2012) Determining the Characteristics of Trips Generated on Southern Bali using Category Analysis, *IPEK The Journal for Technology and Science*

Wicaksono A, MG Oktaviana, H. Sulistio (2012) Development Strategy for Rural Transportation, Case Study Province of West Papua, *Proceedings of the 8th APTE Conference: Asean Transport Challenge 6-8 June 2012*.

Agung Sedayu, H Sulistio, A Soehardjono, **A Wicaksono** (2012) Attributes of a Minimum Services Standard of Public Transport Terminal Infrastructure in Indonesia, *Journal of Basic and Applied Scientific Research* 2(12).

Nyono, Sulistio, H., **Wicaksono, A.**, Djakfar, L (2013) Modeling of train accidents at unmanned railway crossing, *World Applied Sciences Journal*, 25 (8), pp. 1197-1208. **(Scopus Index)**

A Sedayu, H Sulistio, A Soehardjono, **A Wicaksono** (2013) Improvement Priorities and Targets In Quality of Services of Public Transport Terminal (A Case Study in Purabaya Terminal, Surabaya Indonesia) - *Journal of Applied Sciences Research (JASR)*.

Wahid Wahyudi, **Achmad Wicaksono**, Agus Taufik Mulyono, Putra Abu, Regi Risman Sandi Sandra (2013) Impact of Axle Load Overloading on Freight Vehicles Towards the Increasing of Greenhouse Gas Emissions by Oxides of Carbon (Case Study: East Java, Indonesia). *Proceedings of the Eastern Asia Society for Transportation Studies* (9).

S Wiwoho Mudjanarko, Harnen Sulistio, Ludfi Djakfar, **Achmad Wicaksono** (2013) Behaviour Model of Motor Cycle User in Selecting Parking Location (Case study in Surabaya City of Indonesia). *Journal of Basic Applied Scientific Research* 3(7).

Festus Evly RI Liow, **Achmad Wicaksono**, Zetly Tamod, Marno Soemarno (2013). The Analysis Performance of Solid Waste Management at Tomohon City Indonesia, *IOSR Journal of Environmental Science, Toxicology And Food Technology (IOSR-JESTFT)*. Volume 5, Issue 2 (Jul-Aug. 2013), pp12-21.

Agung Sedayu, H Sulistio, A Soehardjono, **A Wicaksono** (2013) Improvement Priorities and Targets in Quality of Services of Public Transport Terminal (A Case Study in Purabaya Terminal, Surabaya Indonesia). *Journal of Applied Sciences Research* 9(4).

Suprayitno, H., Mochtar, I.B., **Wicaksono, A.** (2014) A special matrix power operation development for simultaneous calculation of all network's shortest path, *Journal of Theoretical and Applied Information Technology*, 62 (1), pp. 21-26. **(Scopus Index)**

Sudarsana, D.K., Sulistio, H., **Wicaksono, A.**, Djakfar, L (2014) A study of safe and green infrastructure on road reconstruction project, *Advances in Environmental Biology*, 8 (10), pp. 616-620. **(Scopus Index)**

Burhamtoro, **Wicaksono, A.**, Bisri, M., Soemarno (2014) Solid waste transportation cost using ARM Roll in Malang city, Indonesia. *International Journal of Earth Sciences and Engineering*, 7 (1), pp. 297-304. **(Scopus Index)**

Harimurti, Sulistio, H., Djakfar, L., **Wicaksono, A** (2014) Interaction of flexible pavement and expansive soil in the process of pavement damage, *Electronic Journal of Geotechnical Engineering*, 19 (Y), pp. 8609-8614. **(Scopus Index)**

Sudarsana, D.K., Sulistio, H., **Wicaksono, A.**, Djakfar, L (2015) Predict of loss of fuel during the road reconstruction in Indonesia, *Green Building, Materials and Civil Engineering - Proceedings of the 4th International GBMCE 2014*, pp.753-756. **(Scopus Index)**

Achmad Wicaksono, Iv Lim, Yasunori Muromachi, Karl N Vergel, Kasem Choocharukul, Van Hong Tan, Kiyohisa Terai, Daisuke Fukuda, Tetsuo Yai (2015) Road-based urban public transport and paratransit in six Asian countries: Legal conditions and intermodal issues, *Journal of the Eastern Asia Society for Transportation Studies* No. 11 pp. 227-242.

Yasunori Muromachi, Iv Lim, **Achmad Wicaksono**, Karl N Vergel, Kasem Choocharukul, Van Hong Tan, Kiyohisa Terai, Daisuke Fukuda, Tetsuo Yai (2015) A comparative study on road-based urban public transport policies in six Asian countries from the viewpoint of governance, urban planning, and financial aspects, *Journal of the Eastern Asia Society for Transportation Studies*, No 11. pp 1433-1450

Tetsu Bando, Daisuke Fukuda, **Achmad Wicaksono**, Lila Kurnia Wardani (2015) Stated preference analysis for new public transport in a medium-sized Asian city: A case study in Malang, Indonesia. *Journal of the Eastern Asia Society for Transportation Studies* no 11. pp. 1451-1466.

Achmad Wicaksono, Dewa Made Paramartha Adhi Wibawa, Nailah Firdausiyah (2015) Traffic Management during Ngaben Funeral Ceremony at Hasanuddin and Thamrin Streets, Denpasar City-Bali, *Proceedings of the Eastern Asia Society for Transportation Studies* (10).

Nusa Sebayang, Harnen Sulistio, Ludfi Djakfar, **Achmad Wicaksono** (2016) The Development of Traffic Light Offset Signal Model Optimization at Areal Traffic Control System (ATCS) in the Form of Grid Using Cell Transmission Model. *Australian Journal of Basic and Applied Sciences*, 10(6). pp 55-61

Lefrandt, L., Sulistio, H., **Wicaksono, A.**, Djakfar, L., Otok, B.W (2016) The combination of importance performance analysis and structural equation model for modelling pedestrian satisfaction in Manado, *Journal of Theoretical and Applied Information Technology*, 90 (2), pp. 158-166. **(Scopus Index)**

Widodo, B.P., Sulistio, H., **Wicaksono, A.**, Djakfar, L (2017) Analysis of traffic characteristics and goods transport in Manado, Indonesia. *International Journal of GEOMATE*, 13 (40), pp. 112-117. **(Scopus Index)**

Wicaksono, A., Pasa Pratama, P., Sulistio, H., Kusumaningrum, R (2017) Review on Operational Performance of Employee Shuttle Service in Industrial Areas of Jababeka-1 Cikarang, West Java. *MATEC Web of Conferences*, 103, art. no. 09009. **(Scopus Index)**

Samad, A., Sulistio, H., Djakfar, L., **Wicaksono, A** (2017) Performance optimization of bus rapid transit in the city of Jogja, *ARPN Journal of Engineering and Applied Sciences*, 12 (17), pp. 5185-5192. **(Scopus Index)**

Rizal, A.H., Sulistio, H., **Wicaksono, A.**, Djakfar, L (2017) Optimization of performance improvement of container crane at containers terminal using genetic algorithm, *ARPN Journal of Engineering and Applied Sciences*, 12 (23), pp. 6773-6780. **(Scopus Index)**

Ari, I.R.D., Sari, K.E., **Wicaksono, A.**, Harisanti, L. (2017) Structural model of formation factors of tourism policy in Nganjuk Regency: Tourists' perspectives, *Sustainable Future for Human Security: Society, Cities, and Governance (A Book Chapter)*, pp. 103-107. **(Scopus Index)**

Shintaro Sawada, Yasunori Muromchi, **Achmad Wicaksono** (2017) Estimating Fuel Consumption of Angkot in the Local Medium-sized City in Indonesia, *Journal of the Eastern Asia Society for Transportation Studies*, no 12 p. 2299-2309.

Sonya Sulistyono, Harnen Sulistio, Ludfi Djakfar, **Achmad Wicaksono**, Ririn Endah Badriani (2018) On-street parking and its impact on-road performance, *Matec Web Conf. Volume 181, 2018. The 1st International Symposium on Transportation Studies for Developing Countries (ISTSDC 2017)*

PROFESIONAL MEMBERSHIP:

1. Chairman II of Indonesian Transport Society (MTI) for East Java Chapter.
2. Academic Board of Inter-University Transportation Research Forum (FSTPT)
3. Advisory Board of Railway Society (MASKA) for East Java Chapter
4. International Editor of *Journal of Lowland Technology International (LTI)*
5. Editor of *Proceeding and Journal of Eastern Asia Society for Transport Study (EASTS)*
6. Executive Secretary of Indonesian Internal Quality Assurance Network (FPMPTI)
7. Member of Indonesian Lecturer Association (ADI)
8. Member of Indonesian Road Development Association (HPJI)
9. Member of The Institution of Engineer Indonesia (PII)