

## LINK CV DOSEN (Dari nama2 dosen)



### PERSONAL

Name : Suherman, ST., M.Comp., Ph.D  
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Home : Griya Insan Mulia Blok B 6 Asam Kumbang, Medan  
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### EDUCATION

Doctor of Philosophy in Electrical Engineering, De Montfort University, Leicester, UK (2013).

Master in Networked and Distributed Systems, RMIT, Australia (2009).

Sarjana Teknik in Electrical Engineering, Universitas Sumatera Utara, Indonesia (2000).

### JOB EXPERIENCES

Lecturer in Universitas Sumatera Utara, Indonesia, since 2004.

Lecturer in Caltex Polytechnics of Riau, Indonesia, 2003 – 2004.

Engineer in QCM, 2000 – 2003.

### PROFESSIONAL TRAINING

Programmatic access to biological databases, EBI, Cambridge, UK (2011).

Summer Academy on Mobile Communication, TU-Ilmenau, Germany (2010).

### SUPERVISED STUDENTS

Master students:

2016

- Joel Panjaitan, topic: "WiMAX schedulers for downlink video transmission".
- Evi Andriani, topic: "Redundancy Schema for Medical Video Transmission".
- Habibi, topic: "UDP-Lite".
- Sahat, topic: "Content Delivery Network".
- Royto, topic: "Air Conditioning Automatic Control".

2015

- Fakhur Rozi, topic: "Fast Bandwidth Request in WiMAX".
- Muhammad, topic: "Reducing Energy Consumptions in WiMAX Clients".
- Mahdi Aziz, topic: "Rateless code in load balancing".
- Rudi Chandra, topic: "Modeling Video Transmission".
- Muhammad Dodi, topic: "Image Analysis on Phylarisis Disease".
- Edi, topic: "Harmonic reduction".
- M. Azhari, topic: "Energy Consumption Characteristics in transport protocols".
- Bahtiar, topic: "Automatic Energy reduction in light bulb".

2014

- Abdullah, topic: "Kalman Filter for a two-legged robot balancing system".

Bachelor students:

2016

- Arifin, topic: "Applying scheduler in NIST WiMAX Module".

2015

- Oktri Pani Wiranata, topic: "Booster Amplifier Modeling in WiMAX Subscriber Stations".
- Muhammad Mulia Maulana, topic: "Modeling Video Transmission with Decodable Frame Rate".
- Ricky Mahyudin, topic: "Datagram Size Impact on Energy Consumption in 802.11 Network".
- Fadlan Dwika, topic: "Bandwidth Request in WiMAX".
- Muhammad Fatih, topic: "Frame Duration Impact on WiMAX Video Transmission".
- Joshua, topic: "Comparing TCP and UDP Energy Consumptions".
- Robby Maulana: "Wireless Link for Periodic Image Transmission".

## RESEARCH GRANTS

- Fundamental research grant topic: Multiple Access with Masykur Sani, 2015-2016.
- Priority research grant topic: Microelectronic for energy efficiency, 2015-2016.
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- Fundamental research grant on topic Lectures on Demand with Arman Sani, 2014.
- Hibah Bersaing research grant on LMDS topic with Naemah Mubarakah, 2014.

## PUBLICATIONS

Jurnal paper:

- Razi, Fakhur. "Backoff Time Adjustment of Contention Based Request for Fast Uplink WiMAX Video Transmission." JITROKOM 1.1 (2015).
- Suherman, M. Al-Akaidi, A. Sani, "Modeling video streaming over a WiMAX Network", International Journal of Electronic Letter", Submitted.
- Suherman S., Al-Akaidi, M., Mubarakah, N., "A transport layer protocol for uplink WiMAX video streaming", International Journal of Mobile and Ubiquitous Engineering, Vol. 10 No. 1, pp. 19-32, Jan 2015.
- Naemah M., Suherman, Julianta S, Arman S., "Heterogeneous Traffic Performances on LMDS System in Rainy Environment", accepted by TELKOMNIKA in July 2014.
- Suherman, S., Al-Akaidi, M., "Increasing Uplink Broadband Video Streaming Performance in WiMAX Networks", International Journal of Internet Protocol, vol. 7 no. 3, pp. 1-8, 2012.
- S. Suherman, M. Al-Akaidi. "An efficient negative acknowledgement-based transport protocol in 802.11 media streaming." International Journal of Ad Hoc and Ubiquitous Computing 16.3 (2014): 161-171.
- Suherman, Al-Akaidi M., "Adjusting WiMAX for a dedicated surveillance network", International Journal of Electrical and Computer Engineering, vol 3, no 4: August 2013.

Conference/Seminar papers:

- Naemah M, Suherman, "Increasing Video Surveillance Performance over LMDS System in Rainy Environment", Elticom conference, Medan, Indonesia; 11/2015.
- Abdullah, Suherman, "Sensor Drift Compensation for Balancing a two-wheeled Humanoid Robot Using Kalman Filter", Seminar Ilmiah Dies Natalis, Universitas Sumatera Utara, 2015.
- Bakhtiar, Suherman, "Smart Light Fitting Light Bulb Energy Reduction", Seminar Ilmiah Dies Natalis, Universitas Sumatera Utara, 2015.

- Fatih Muhammad, Suherman, "Impact of Window and Datagram Sizing on Mobile Device Power Consumption", Seminar Ilmiah Dies Natalis, Universitas Sumatera Utara, 2015.
- Arman Sani, Suherman, "Teknik Penjadwalan Berbasis Fitur pada WiMAX untuk Aplikasi Video on Demand", Seminar Nasional Literasi Informasi (Senarai), Universitas Sumatera Utara; 12/2014.
- Suherman, Naemah M., "Desain Protokol Jaringan untuk komunikasi multimedia", The 3rd National Seminar on Electrical and Electronics, Cilegon, 28-29 Oct 2014.
- Naemah M., Suherman, "Perbandingan Kinerja Metode Penggabungan MAC-Physical Layer Sistem LMDS pada Kanal Gelombang Milimeter", The 3rd National Seminar on Electrical and Electronics, Cilegon, 28-29 Oct 2014.
- Suherman, "Artificial Intelligent in Communication Networks", International Seminar on Artificial Intelligence and Robotics in Industry and Education, UIN Suska, 3 Oktober 2013.
- Suherman, Al-Akaidi M., Hamzaoui R., "Transport and MAC Cross Layer Protocol For WiMAX Based Dedicated Video Surveillance Network", in Proc. 13th Middle Eastern Simulation and Modeling Conference, Muscat, Oman, Dec. 2012.
- Suherman, Al-Akaidi M., Hamzaoui R., "Inter-frame Retransmission for Video Surveillance over WiMAX", in Proc. 12th Middle Eastern Simulation and Modeling Conference, Amman, Jordan, Nov. 2011, pp. 42-47.
- Suherman, Al-Akaidi M., "Improving Real Time Video Surveillance Performance Using Inter-frame Retransmission", in Proc. International Conference on Imaging for Crime Detection and Prevention, London, Nov. 2011.
- Suherman, Al-Akaidi M., "Post-decoding Concealment Techniques for Video Transmission", in Proc. Global Conference of Communication Science and Information Engineering, London, July 2011.

#### **EDITOR/REVIEWER**

- Section Editor Journal of Information Communication Technology. Website: <http://iaesjournal.com/online/index.php/IJICT/about/editorialTeam>
- Reviewer of the International Conference on Computer, Control, Informatics and its Applications (IC3INA). Website: <http://ic3ina.informatika.lipi.go.id/>
- Reviewer of Journal IET Communications (IET-Com). Website: <http://digital-library.theiet.org/content/journals/iet-com>
- Since 2012 Reviewer of Journal IET Networks. Website: <http://digital-library.theiet.org/content/journals/iet-net>

#### **SCIENTIFIC ORGANIZATION**

- The Institute of Electrical and Electronics Engineering (IEEE), member since 2011.
- The Association for Computing Machinery (ACM), member since 2011.
- Masyarakat Kelistrikan Indonesia (MKI), member since 2013.