

## CURRICULUM VITAE



Full name : **F. FAHMI ST, MSc, PhD**  
Place/date of birth : Medan / December 9<sup>th</sup> 1979  
Institution : University of Sumatera Utara  
Home Adress : Jl. Tridarma 110 Kampus USU Medan  
email : [fahmimn@usu.ac.id](mailto:fahmimn@usu.ac.id) / [fahmimn@gmail.com](mailto:fahmimn@gmail.com)  
Phone : 08116151279  
Social Media : fb/fahmimn, @fahmimn

### **Education**

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<b>INSTITUTION AND LOCATION</b>	<b>MAJOR FIELD OF STUDY</b>	<b>DATES (Month/Year)</b>		<b>DEGREE</b>	<b>DATE RECEIVED</b>
Dept. Biomedical Engineering and Physics AMC Universiteit van Amsterdam	Medical Imaging	Oct 2010	June 2015	PhD Biomedical Engg	June 24 <sup>th</sup> 2015
Sensor System Technology, FachHochschule Karlsruhe	Medical Imaging	May 2003	April 2005	Master of Science (MSc) GPA 1.40 of 1.00	April 25 <sup>th</sup> 2005
Dept. Electrical Engineering, Institute Technology of Bandung (ITB)	Biomedical Engineering	Sept 1998	Oct 2002	Sarjana Teknik (ST) / Bachelor of Engineering GPA. 3.64 of 4.00	Oct 19 <sup>th</sup> 2002

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**Professional Experience**

<b>NameAndAddressOfEmployer</b>	<b>Title/TypeOfWork</b>	<b>Dates(Month/Year)</b>
University of Sumatra Utara, Indonesia Electrical Engineering, Engineering Faculty Jl. Almamater, Kampus USU, Medan IND	Lecturer / Researcher	April, 2006 Now
IDB North Sumatera University Hospital Project USU, Indonesia Contact : <a href="mailto:usumedan@idbindonesia.org">usumedan@idbindonesia.org</a>	Project Management Unit, Medical Equipment Team.	Jan 2007 – March 2010
PT. Fondaco Mitratama Diagnostic Imaging Division, Jakarta	Product Manager	2005 - 2006
Siemens Medical Erlangen Forchheim Germany CTE-PA Department	Research and Development	Nov 2004 –April 2005

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**Prizes &Awards**

1. DIKTI Scholarship award from Ministry of National Education Indonesia, received for PhD study at AMC, Amsterdam The Netherlands, 2010-2013.
2. DAAD – SIEMENS Scholarship Program Asia 21th Century, received during master study at FH Karlsruhe Germany, 2003 - 2005
3. EPSON Scholarship Program, received during study at the Institute Technology of Bandung (ITB), 2002 - 2003
4. SUMMERSCHOOL on Biomedical Science and Technology, financed by the collaboration between RU Groningen, The Netherlands and Institute Technology of Bandung (ITB) Indonesia, July 2001

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**Expertise**

1. Medical Equipment
2. Medical Imaging and Image Processing
3. Biosignal Processing
4. Medical Sensor and Instrumentation

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**Professional Societies**

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1. IEEE (International Electronic and Electrical Engg)	2012 to now
2. MASTAN Indonesia ( <i>Indonesian Standardization Society</i> )	2008 to now
3. IBES (Indonesia Biomedical Engineering Society)	2001 to now
4. DAAD-SIEMENS Youth & Knowledge	2003 to 2005

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### **Publications**

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1. Baihaqi Siregar, Farhan Luthfi Nainggolan, F. Fahmi, 3D Human foot bones anatomy using leap controller, The International conference on Electrical, Telecommunication and Computer Engineering ELTICOM 2015 Medan October 2015.
2. Evi Andriani, F. Fahmi, Algoritma Pengolahan Citra MEdis Pengenalan PERfusi Sel Otak untuk Deteksi Akut Stroke, Seminar Ilmiah DIES NATALI USU 63, Medan August 2015
3. F. Fahmi, HA Marquering, GJ Streekstra, LFM Beenen, NNY Janssen et al, Automatic Detection of CT Perfusion Datasets Unsuitable for Analysis due to Head Movement of Acute Ischemic Stroke Patients, *Journal of healthcare engineering* 5 (1), 67-78, 2014
4. F. Fahmi, A Riordan, LFM Beenen, GJ Streekstra, NY Janssen et al, The effect of head movement on CT perfusion summary maps: simulations with CT hybrid phantom data, *Medical & biological engineering & computing* 52 (2), 141-147, 2014
5. F. Fahmi, HA Marquering, GJ Streekstra, LFM Beenen, NY Janssen et al, Automatic Selection of CT Perfusion Datasets Unsuitable for CTP Analysis due to Head Movement, XIII Mediterranean Conference on Medical and Biological Engineering, Seville 2014
6. F. Fahmi, LFM Beenen, GJ Streekstra, NY Janssen, HW de Jong et al, Head movement during CT brain perfusion acquisition of patients with suspected acute ischemic stroke, *European journal of radiology* 82 (12), 2334-2341, 2013
7. A Siswanto, P Tarigan, F. Fahmi, Design of contactless hand biometric system with relative geometric parameters, *Instrumentation, Communications, Information Technology, and Biomedical Conferences*, Bali, 2013
8. F. Fahmi, H Marquering, J Borst, Neue 3D-Korrektur der Kopfbewegung bei Perfusions-CT-Untersuchungen, *Neuroradiologie Scan* 5 (01), 16-16, 2013
9. F. Fahmi, HA Marquering, GJ Streekstra, LFM Beenen, BK Velthuis et al, Differences in CT perfusion summary maps for patients with acute ischemic stroke generated by 2 software packages , *American Journal of Neuroradiology* 33 (11), 2074-2080, 2012
10. Sayed, Tulus, F. Fahmi, Peningkatan Unjuk Kerja Verifikasi Citra Sidik Jari Berminyak Berdasarkan Minutiae dengan Metode Gabor Filter, *SNASTIKOM 2013 (ISBN 978 - 602 - 1 9837 - 2 - 0)*, 115-118, 2012
11. Eliyani, Tulus, F. Fahmi, Pengenalan Tingkat Kematangan Buah Pepaya Paya Rabo Menggunakan Pengolahan Citra Berdasarkan Warna RGB dengan K-Means Clustering, *SNASTIKOM 2013 (ISBN 978 - 602 - 1 9837 - 2 - 0)*, 93-98, 2012
12. F. Fahmi, Head Movement Analysis in CT Brain Perfusion Using Image Registration, Poster, ICVSS, Italy, 2012
13. Salahuddin, Tulus, F Fahmi, Klasifikasi dan Peningkatan Kualitas Citra Sidik Jari Menggunakan FFT ( Fast Fourier Transform), *SNASTIKOM 2013 (ISBN 978 - 602 - 1 9837 - 2 - 0)*, 137-142, 2012
14. Mulyadi, Tulus, F. Fahmi, Deteksi Fitur Wajah Manusia tanpa Marker Aktif Menggunakan Metode Principal Component Analysis (PCA), *SNASTIKOM 2013 (ISBN 978 - 602 - 1 9837 - 2 - 0)*, 131-136, 2012
15. F. Fahmi, HA Marquering, GJ Streekstra, Ischämischer Schlaganfall: Vergleich der Infarktausdehnungsanalyse verschiedener Softwareanbieter, *Neuroradiologie Scan* 3 (03), 162-

163, 2012

16. H de Blied, S Delgado, F Fahmi, C Fetita, HM Marquering, P Pineau D3. 1–State of Art reports on Image Processing Services, 2012
17. F Fahmi, Image Processing for Iris Using Gray Level Spatial Dependence Method, IEEE - International Symposium on Biomedical Engineering (IEEE-ISBME), Bangkok Thailand, 14-18 December 2009
18. F Fahmi, Outliers Filter for Noise Reduction In Image Processing, Science and Technology Journal USU, Edition July-December, 2008
19. F Fahmi, Image Processing for Iridology, International Information and Communication Technology (ICTS), 3<sup>rd</sup> Edition, Surabaya, pages 358-367, 2007
20. F Fahmi, Pemisahan Bagian Iris Pada Citra Mata menggunakan Operasi Morfologi, Universitas Sumatra Utara, Medan, 2007
21. F Fahmi, Image Processing for Iridology, Universitas Sumatra Utara, Medan, 2007
22. F Fahmi, Perancangan Algoritma Pengolahan Citra Mata Menjadi Citra Polar Iris Sebagai Bentuk Antara Sistem Biometrik, Universitas Sumatra Utara, Medan, 2007
23. F Fahmi, Rainer Stotzka, Computer Aided Analysis System of Yeast Two-Hybrid Protein Interaction Experiments, ForschungsZentrum Karlsruhe Germany, (FZK) International Information and Communication Technology (ICTS), 2<sup>nd</sup> Edition, Surabaya, pages 141-148, 2006
24. F Fahmi, Herbert Bruder, “Automatic Optimum Phase Selection using Motion Map in Cardiac CT Imaging”, Master Thesis, Siemens Medical Germany, Erlangen, 2005

#### Editor

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1. Singuda Ensikom

2012 to now