

CURRICULUM VITAE

(Please complete all fields... write "N/A" if not applicable)

1. PERSONAL DATA

Name : Dr. Sunny Arief Sudiro
Date of Birth : 09 April 1967
Place of Birth : Jakarta
Nationality : Indonesia
Contact Address: Jl. Damai No. 42A Rt. 014/04 Susukan Ciracas Jakarta Timur
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2. ACADEMIC/PROFESSIONAL PARTICULARS

(a) Field of Specialization: Embedded System, Computer Architecture, Electronic Circuit, C & VHDL Programming.

(b) Academic Qualifications:

1. Doctor, Instrumentation and Image Processing, 2009, Burgundy University, France, Dissertation Title : "Real Time Fingerprint Recognition Using FPGA Devices", "Tres honorable".
2. Master Degree, Banking, 1998, Gunadarma University, Jakarta, Indonesia, Master Thesis Title : " Analisis pengoperasian beberapa ATM pada LAN dengan Novell Netware (Analyst Several ATM Operation in LAN with Novell Netware)" , GPA: 3.80.
3. Bachelor Degree, Computer Science, 1994, Informatic Management and Computer Institute of Gunadarma - Jakarta, Title : "Merancang Database Kartu ATM pada Pengoperasian ATM Berbasis PC (Designing ATM Card Database on ATM Operation based on PC)" , GPA: 3.43.

(c) Academic Honors and Awards : N/A

(d) Membership of Professional Bodies :

1. IACSIT (International Association of Computer Science and Information Technology), Singapore, Senior Member, Member NO.: 80337127, 2010.
2. APTIKOM (Computer Higher Education Association), Indonesia, Member , 2012.
3. PIKIN (Indonesian Health Informatics Association), Indonesia, Staff Member, 2012

(e) Language Proficiency : English (Competent User), Bahasa (Very Good User).

3. CAREER DETAILS

(a) Academic Positions Held :

1. Department Chief, Computer Science Department, STMIK Jakarta STI&K, Indonesia, Dec/2010-Sept/2015
2. Vice President of Academic Affairs, STMIK Jakarta STI&K, Indonesia, Oct/2015-now.

(b) Professional/Industrial Positions Held : N/A

(c) Administrative Positions Held :

EDP Staff, BAAK, Gunadarma University, Indonesia, Oct/1998-Nov/2010

4. Teaching

(a) Summary of Courses Taught :

1. Microprocessor, Computer Network & Data Communication, FPGA & VHDL Programming, Embedded System, Interfacing, Microcontroller Programming, System Programming, Decision Support System, etc. Regular course in STMIK Jakarta Indonesia or Gunadarma University Jakarta Indonesia.
2. Give a lecture for 40 hours class in title "Multimedia Communication", a special course in BTH Swedia, Sept 2014.

(b) Participation in Academic Accreditation : N/A

(c) Research Students Supervised/Trained

Level	Number of Trainees
Postdoctoral Fellows	
PhD Students	5
Master Students	10
Undergraduate Students	20

(d) Participation in Thesis and Oral Examination Committees

Level	Number of Examinations
PhD Students	6
Master Students	20

(e) Training :

4th International Summer School on " Biometrics for Secure Authentication : New Technologies and Embedded Systems", June 11th – 15th 2007, Alghero, Italy.

5. RESEARCH

(a) Research Interests : Electronic Component Design (FPGA Based), Embedded System, Control & Robotic, Computer Network Analysisist, etc.

(b) Publications/Citations Data

Type of Publication	Number of Publications	Articles in International Refereed
Journals	5	1
Conference Papers	20	
Books	1	

Citation Source	Number of Citations
SCOPUS	18
Research Gate	41
Google Scholar	77

(c) Research Grants :

Hibah Bersaing, Principle Investigator, "Pengembangan Prototipe Komponen Pengenal Pola Sidik Jari Berbasis Jaringan Saraf Tiruan Menggunakan Perangkat FPGA" ("The Development of Fingerprint Recognition Component Based on Artificial Neural Network

using FPGA”), Minister of Higher Education Indonesia, May/2014-Dec/2015, Around USD 10,000.—

(d) Intellectual Proprietary Right :

1. “PROGRAM PENGENDALI SISTEM PEMANTAU AMAN DAN LAMANYA MATA MENATAP MONITOR” , HKI. 2-01-000001807, 20 Februari 2015, TULUS BUDYARSO and SUNNY ARIEF SUDIRO, STMIK JAKARTA STI&K
2. “MODUL PRAKTIKUM: PEMROGRAMAN PERANGKAT LOGIKA TERPROGRAM FPGA”, HKI. 2-01-000002108, 15 Januari 2015, DR. SUNNY ARIEF SUDIRO; ABDUL HAKIM., SKOM., MT; L. M. RASDI RERE., SSI., MSI; HARIYANTO., SKOM., MMSI; EKO HADIYANTO., SSI., MM and FIVTATIANTI H., SKOM., MM, STMIK JAKARTA STI&K.
3. “MODUL PRAKTIKUM: SISTEM TERTANAM BERBASIS MIKROKONTROLER”, HKI. 2-01-000002109, 15 Januari 2015, DR. SUNNY ARIEF SUDIRO; ABDUL HAKIM., SKOM., MT; L. M. RASDI RERE., SSI., MSI; HARIYANTO., SKOM., MMSI; EKO HADIYANTO., SSI., MM and FIVTATIANTI H., SKOM., MM, STMIK JAKARTA STI&K.
4. “APLIKASI TEMU KENALI POLA SIDIK JARI BERBASIS JARINGAN SYARAF TIRUAN”, HKI. 2-01-000006692, 18 November 2015, SAEFUL LUKMAN., SKOM., MMSI; DR. SUNNY ARIEF SUDIRO and HARIYANTO., SKOM., MMSI, STMIK JAKARTA STI&K.
5. “MODEL 3 DIMENSI VIRTUAL REALITY MONUMEN NASIONAL DAN LINGKUNGAN SEKITARNYA”, HKI. 2-01-000007094 18 November 2015, DR. BHETA AGUS WARDIJONO; DR. SUNNY ARIEF SUDIRO; FIVTATIANTI HENDAJANI., SKOM., MM; ANNISA INDAH RAMDHANDINI, STMIK JAKARTA STI&K.

(e) Participation in Regional & International Conferences :

1. KNSI 2014, Makasar-Indonesia, Feb 2014
2. ICAC SIS 2015, Jakarta-Indonesia, Oct 2015
3. AIMS2016, Kota Kinabalu-Malaysia, 1-2 Dec 2015
4. ICIC 2016, Mataram Lombok-Indonesia, Agust 2016

6. SERVICE

(a) Membership of Institutional, National, or International Scientific Advisory Boards : N/A

(b) Membership of Conference Committees :

1. Advisory Committee, Member, ICIIBMS (International Conference on Intelligent Informatics and BioMedical Sciences, Okinawa Japan, 28-30 Nov 2015.
2. Advisory Committee, Member, ICIIBMS (International Conference on Intelligent Informatics and BioMedical Sciences, Okinawa Japan, 24-26 Nov 2017.

(c) Service as Reviewer

Journals

KOMPUTASI, ISSN No. 1412-9434, STMIK Jakarta STI&K (since: June/2011)

Conferences

1. Advisory Committee, Member, ICIIBMS (International Conference on Intelligent Informatics and BioMedical Sciences, Okinawa Japan, 28-30 Nov 2015.
2. Advisory Committee, Member, ICIIBMS (International Conference on Intelligent Informatics and BioMedical Sciences, Okinawa Japan, 24-26 Nov 2017.

(d) Membership of Journal Editorial Boards :

KOMPUTASI, ISSN No. 1412-9434, STMIK Jakarta STI&K (since: June/2011)

(e) Invited Presentations at Scientific Meetings/Workshops :

Software Engineering and Business in Mobile Environment,, Pamulang University, Tangerang Selatan, Banten Indonesia.

- (f) University Service : N/A.
- (g) Service to Profession/Industry : N/A.
- (h) Public Service :

1. As a jury in Robotic Day 2015, SMAN 24 Jakarta, 4-5 Sept 2015.
2. As an instructor in IT Training for " Street Children ", Polisi Daerah (Police Department), 2013 -2014.
3. As an instructor in IT Training for Kindergarden Teacher, STMIK Jakarta STI&K, 2014-2015.

7. List of Publications (in chronological order, starting with most recent)

(a) International Refereed Journals :

1. Robby Candra, Sarifuddin Madenda, Sunny Arief Sudiro, Muhammad Subali, "The Implementation of an Efficient Zigzag Scan", Journal of Telecommunication Electronic and Computer Engineering (JTEC), Vol: 9, No : 2 APRIL - JUNE 2017, page : 95-98, ISSN: 2180-1843, eISSN:2289-8131.
2. Titin Winarti, Jati Kerami and Sunny Arief, "Determining Term on Text Document Clustering using Algorithm of Enhanced Confix Stripping Stemming", International Journal of Computer Applications 157(9):8-13, January 2017. DOI : 10.5120/ijca2017912761
3. Sunny Arief Sudiro, Hariyanto, Ire Puspa Wardhani, Bheta Agus Wardijono and Saepul Lukman, "Hardware Artificial Neural Network for Minutiae Matching Algorithm", IJSSST Vol 17 No 34, Oct 2016, ISSN : 1473-8031.
4. Sunny Arief Sudiro, Bheta Agus Wardijono, Ire Puspa Wardhani, Hariyanto, Saepul Lukman, "Designing an Embedded System of Fingerprint Recognition Based on Artificial Neural Network on FPGA Device", International Journal of Engineering and Technical Research (IJETR), Volume-3, Issue-10, October 2015, ISSN: 2321-0869.
5. Sunny Arief Sudiro, Rudi Trisno Yuwono, "Adaptable Fingerprint Minutiae Extraction Algorithm based-on Crossing Number Method for Hardware Implementation using FPGA Devices", International Journal of Computer Science, Engineering and Information Technology (IJCEIT), Juni 2012. ISSN : 2231-3605

(b) Conference Papers :

1. Sunny Arief Sudiro, Bheta Agus Wardijono and Darwis Abdul Rohman, "Automatic Controller Component Development using FPGA Device", International Conference on Informatic and Computing (ICIC 2016), Lombok, Indonesia, 28 October 2016
2. Aqwam Rosadi Kardian, Sunny Arief Sudiro and Sarifuddin Madenda, "Efficient Implementation of Mean Formula for Image Processing using FPGA Device", International Conference on Information Technology, Information System and Electrical Engineering (ICITISEE 2016), Yogyakarta, 23-24 August 2016.
3. Robby Candra, Sarifuddin Madenda and Sunny Arief Sudiro, "Optimum Zigzag Scan Mapping Method on FPGA Device ",International Conference on Information Technology, Information System and Electrical Engineering (ICITISEE 2016), Yogyakarta, 23-24 August 2016.
4. Hariyanto, Sunny Arief Sudiro and Saepul Lukman, "Minutiae Matching Algorithm using Artificial Neural Network for Fingerprint Recognition", IEEE 3rd International Conference on Artificial Intelligence, Modelling and Simulation (AIMS 2015), Kota Kinabalu Malaysia, 2-3 Dec 2015.
5. Bheta Agus Wardijono, Fivtatianti Hendajani and Sunny Arief Sudiro, "Virtual Reality Website of Indonesia National Monument and Its Environment", Mathematics Science and Computer Science Education International Seminar (MSCEIS 2016), Bandung Indonesia, 15 Oct 2016.
6. Ima Primisima, Sunny Arief Sudiro and Bheta Agus Wardijono, "Automatic Plant Watering Controller Component Using FPGA Device ", The 7th International Conference on Advanced Computer Science and Information Systems (ICACSIS 2015), Jakarta Indonesia, 10-11 October 2015.

7. Bheta Agus Wardijono, Sunny Arief Sudiro, Fivtatianti Hendajani and Annisa Ramdhani, "Pengembangan Model Grafik 3 Dimensi Monumen Nasional dan Lingkungan Sekitarnya dengan Teknologi Virtual Reality Berbasis WEB", Semnastek 2015, UNJ Jakarta Indonesia, 17 Nov 2015.
8. Sunny Arief Sudiro, Ire Puspa Wardhani and Bheta Agus Wardijono, "Fingerprint Dataset Development for Biometric Recognition System Evaluation", The IER-SCIENCE PLUS International Conference, Singapore, 8 Nov 2014
9. Sunny Arief Sudiro, Lingga Hermanto and Sarifuddin Madenda, "Pengembangan Prototipe Komponen Pengenal Pola Sidik Jari Berbasiskan Jaringan Saraf Tiruan Menggunakan", Konferensi Nasional Sistem Informasi 2014, STMIK Dipanegara Makassar, ISSN: 2355-1941, 27 Feb – 1 Mar 2014.
10. Purnawarman Musa, Sunny Arief Sudiro, Eri Prasetyo Wibowo, Suryadi Harmanto, Michel Paindavoine, "Design and Implementation of Non-Linear Image Processing Function for CMOS Image Sensor", SPIE Photonic ASIA 2012: Optoelectronic Imaging and Multimedia Technology, Vol: 8558, Beijing China, 5-7 November 2012.
11. Mariza Wijayanti, Abdul Hakim, Sunny Arief Sudiro, "Designing and Simulation of Bandpass Infinite Impulse Response Digital Filter using FPGA Devices", International Conference on Mechanical, Electrical and Computer Engineering (ICMECE), Singapore, 4th August 2012. ISBN : 978-93-82208-05-1.
12. Silmina Ulfah, Fivtatianti Hendajani dan Sunny Arief Sudiro, " Backscatte-ring Control Logic Component Using FPGA Device", International Conference on Advance Computer Science and Information System 2011 (ICACSIS 2011), 17-18 December 2011, ISBN : 978-979-1421-11-9.
13. Rudi Trisno Yuwono, Lingga Hermanto, Sunny Arief Sudiro, Djati Kerami, "Concerning Minutiae Type in Closer Minutiae Neighbor Properties for Fingerprint Matching Algorithm", The 2nd International Conference on Robotics, Informatics, and Intelligent Technology (RIIT 2009), Bangkok Thailand, 11- 14 Dec 2009.
14. Sunny Arief Sudiro, Michel Paindavoine, Tb. Maulana Kusuma " Improvement of Fingerprint Sensor Reading Using FPGA Devices", ICCEEI 2008 Phuket, Thailand, pp: 829- 833, 20-23 Dec 2008, ISBN : 978-0-7695-3504-3.
15. Sunny Arief Sudiro, Michel Paindavoine, Tb. Maulana Kusuma "Performance Evaluation of Simple Fingerprint Minutiae Extraction Algorithm Using Crossing Number on Valley Structure", 5th International Conference on Innovations in Information Technology (Innovations'08), UEA, 16-18 Dec 2008, ISBN : 978-1-4244-9-3397-1.
16. Sunny Arief Sudiro, Michel Paindavoine, Tb. Maulana Kusuma "Fingerprint Image Enhancement in Simple Fingerprint Minutiae Extraction Algorithm Using Crossing Number On Valley Structure " , International Conference on Intelligent & Advanced Systems (ICIAS 2007)CAS Chapter of IEEE Malaysia Section, Universiti Teknologi Petronas, Kuala Lumpur, Malaysia, 26-28 Nov 2007.
17. Sunny Arief Sudiro and Rudi Trisno Yuwono, "Obtainning Parameter of Minutiae Points Detected by Crossing Number Algorithm on Valley Structure", ICSIIT (International Conference on Soft Computing, Intelegant System and Information Technology) 2007, Petra Christian University, Bali, Indonesia, pp. 104-109, 26-27 July 2007.
18. Sunny Arief Sudiro and Rudi Trisno Yuwono, "Hardware Implementation of Minutiae Points Detection Algorithm using Crossing Number on Valley Structure" , International Conference on Electrical Engineering and Informatics, Institut Teknologi Bandung, Bandung, Indonesia, pp. 332-335.17-19 June 2007.
19. Sunny Arief Sudiro, Michel Paindavoine, Tb. Maulana Kusuma "Simple Fingerprint Minutiae Extraction Algorithm Using Crossing Number On Valley Structure", 5th IEEE Workshop on Automatic Identification Advanced Technologies, Alghero, Italy, pp. 41-44, 7-8 June 2007.
20. Sunny Arief Sudiro and Rudi Trisno Yuwono, "Simple Fingerprint Minutiae Extraction Algorithm Using Crossing Number", National Conference on Information System (KNSI) 2007, STT Telkom, Bandung, Indonesia, pp. 583-586, 14 February 2007.

(c) Books/Book Chapters :

E.P. Wibowo, N. Huda, Sunny Arief Sudiro, and Brahmantyo, "Instalasi Mentor Graphics (IcFlow) pada Sistem Operasi Linux", Buku Ajar, Penerbit Gunadarma, Jl. Margonda Raya 100, Depok, 2006.

(d) Other Publications

Sunny Arief Sudiro, Michel Paindavoine, Tb. Maulana Kusuma, "Real Time Fingerprint Recognition System using FPGA Device", 4th International Summer School on Biometrics : "New technologies and embedded systems", University of Sassari, Itali, 2007, 11-15 June 2007.

8. References

1. Prof. Michel Paindavoine, Michel.Paindavoine@u-bourgogne.fr, paindav@u-bourgogne.fr
2. Prof. Fabrice Meriaudeau, fabrice.meriaudeau@u-bourgogne.fr,
3. Prof. Dr. Sarifuddin Madenda, sarif@staff.gunadarma.ac.id

9. Publication Links

1. Scopus : <https://www.scopus.com/authid/detail.uri?authorId=22036146100>
2. Google Scholar : <https://scholar.google.co.id/citations?user=5xRpr1sAAAAJ&hl=id>
3. ResearchGate https://www.researchgate.net/profile/Sunny_Sudiro/stats