

Prof. Andriyan Bayu Suksmono, Ph.D.

✉ suksmono@itb.ac.id

🌐 Andriyan B. Suksmono



Employment History

- 2009 – 📌 **Professor**, The School of Elect. Eng. and Informatics, ITB, Indonesia.
- 2006 – 2009 📌 **Assoc. Professor**, The School of Elect. Eng. and Informatics, ITB, Indonesia.
- 2005 – 2006 📌 **Assoc. Professor**, Dept. of Elect. Engineering, ITB, Indonesia.
- 1996 – 2005 📌 **Instructor**, Dept. of Elect. Engineering, ITB, Indonesia.
- 1992 – 1996 📌 **Programmer**, ITB (Institut Teknologi Bandung) Computer Center, Indonesia.
- 1991 – 1992 📌 **Systems Programmer**, Bank Central Asia (BCA Bank), Jakarta, Indonesia.

Education

- 2002 📌 **Ph.D. Engineering**, The University of Tokyo, Japan
- 1996 📌 **M.Sc. Electrical Engineering**, Institut Teknologi Bandung, Indonesia
- 1990 📌 **B.Sc. Physics**, Institut Teknologi Bandung, Indonesia

Awards and Recognitions

- 2026 📌 **The 117 Most Prospective Indonesia Innovation Award (candidate)**, member, Business Innovation Center-Indonesia
- 2025 📌 **ACM Distinguished Speaker**, The Association for Computing Machinery (ACM)
- 📌 **IBM Quantum Credit**, 700 minutes IBM Quantum usage time equivalent to US\$50,400, The IBM (International Business Machines).
- 📌 **The 116 Most Prospective Indonesia Innovation Award**, PI, Business Innovation Center-Indonesia
- 2024 📌 **The 115 Most Prospective Indonesia Innovation Award**, PI, Business Innovation Center-Indonesia
- 2023 📌 **Top 100 in Physics (2nd place)**, Scientific Reports (Nature Portfolio).
- 📌 **The 114 Most Prospective Indonesia Innovation Award**, PI, Business Innovation Center-Indonesia
- 2022 📌 **Editor's Choice in Quantum Computing**, Nature's Scientific Reports.
- 📌 **Pragyan Atula Award**, The School of Electrical Engineering and Informatics, ITB.
- 2020 📌 **Top 100 in Physics (8th place)**, Scientific Reports (Nature Portfolio).
- 📌 **Inclusion in Quantum Algorithm Zoo**
- 📌 **ITB Research Award**, Institut Teknologi Bandung, Indonesia.
- 2019 📌 **Award on Usage of Quantum Computer, CfP Cycle-3**, USRA-RIACS/NASA, USA.
- 2018 📌 **Member of IBM Quantum Researcher Program**, IBM (The International Business Machines) Corporation.
- 2017 📌 **Distinguished Lecturer**, IEEE-Indonesia Section.
- 📌 **ITB Innovation Award**, Institut Teknologi Bandung, Indonesia.
- 📌 **Asahi Research Award**, The Asahi Glass Foundation.
- 2013 📌 **Best Paper Award**, MITA-Conference 2014.

Awards and Recognitions (continued)

- 2012  **Asahi Research Award**, The Asahi Glass Foundation.
- 2011  **Excellence in Research Journal Awards, (co-author)**, IGI Global's Publisher.
-  **Asahi Research Award**, The Asahi Glass Foundation.
- 2009  **Hitachi Research Fellowship Award, 2009**, The Hitachi Foundation
- 2007  **Elevated to IEEE Senior Member**, IEEE.
-  **Outstanding Faculty Award/Best Lecturer (1st place)**, Ministry of Education, Indonesia.
-  **Outstanding Faculty Award/Best Lecturer (1st place)**, ITB, Indonesia.
- 2005  **The APNNA Best Paper Award for Theoretical Development**, ICONIP-2004 (Asia Pacific Neural Network Assembly, Indian Statistical Institute, Jadavpur University).

Field of Interests

-  **Imaging and Signal Processing**
-  **Compressive Sensing**
-  **Quantum Computing**

Visiting Professor and Researchers

- 2020  **Visiting Professor**, CSAIL-MIT (Massachusetts Institute of Technology), Cambridge, USA.
- 2019  **Visiting Professor**, KAIST (Korean Advanced Institute of Science and Technology), Korea.
- 2012  **Visiting Professor**, SNU (Seoul National University) and The Korea Multimedia Society, Korea.
- 2011  **Visiting Professor**, UTM (Universiti Teknologi Malaysia), Malaysia.
- 2010  **Visiting Professor**, Chiba University, Japan.
- 2009  **Visiting Researcher/Hitachi Scholar**, The University of Tokyo, Japan.
- 1998  **Visiting Researcher/JSPS Scholar**, NIME-National Institute of Multimedia Education, Japan.

Management Experience

- 2024 –  **Chair**, Bandung ACM Chapter, ACM- Association for Computing Machinery
- 2023 –  **Head**, Biomedical Eng. Research Group, SEEI-ITB
- 2022 – 2023  **Deputy Head**, Research Center on ICT (PPTIK), ITB
- 2022 –  **Head**, Research Collaboration Center on Quantum Technology 2.0, BRIN (National Research and Innovation Agency)-ITB-Telkom University.
-  **Head**, Quantum Technology Laboratory, SEEI-ITB
- 2019 –  **Head**, Graduate School Commision, SEEI-ITB
- 2013 – 2018  **Head**, Telecommunication Eng. Research Group, SEEI-ITB
- 2012 – 2015  **Head**, Doctoral Program in Electrical Engineering and Informatics, SEEI-ITB

Society Membership

- 2007 –  **Senior Member**, IEEE-The Institute of Electrical and Electronics Engineers.
- 2002–2007  **Member**, IEEE-The Institute of Electrical and Electronics Engineers.
- 1999–2002  **Student Member**, IEEE-The Institute of Electrical and Electronics Engineers.
- 2019–. . . .  **Professional Member**, ACM-Association for Computing Machinery.

Journal Editor Services

- 2025 – . . . **Editorial Board Member**, Scientific Reports, Nature Portfolio.
- 2010 – . . . **Associate Editor**, IJEHMC-Int. Journal of E-Health and Medical Communications.
- 2009 – . . . **Co-Editor**, IJEEI-International Journal of Electrical Engineering and Informatics.

Patents, Industrial Designs, Copyrights, and Intellectual Property Rights

- 2024 **Industrial Design**, A Through-Wall Radar Device, Granted (Ministry of Law and Human Rights, Republic of Indonesia).
- 2023 **Copyright**, A PPI Display Software for Through-Wall Radar Systems, Granted (Ministry of Law and Human Rights, Republic of Indonesia).
 - Industrial Design**, Digital Microscope Assistant, Drafting (patent search in ITB).
 - Industrial Design**, Through Wall Radar System, Drafting (patent search in ITB).
- 2022 **Industrial Design**, UWB-FMCW Radar Trainer Kit, Registered (DJKI-Indonesia IPR Office).
 - Industrial Design**, Antenna for UWB-FMCW Radar Trainer Kit, Registered (DJKI-Indonesia IPR Office).
- 2021 **Industrial Design**, Mobile Computer Enclosure for Portable Ground Surveillance Radar, Registered (DJKI-Indonesia IPR Office).
 - Industrial Design**, Foldable Enclosure for Portable Ground Surveillance Radar, Registered (DJKI-Indonesia IPR Office).
- 2020 **Industrial Design**, Enclosure for Portable Ground Surveillance Radar, Registered (DJKI-Indonesia IPR Office).

Keynote, Invited, and Plenary Speakers

- 2025 **Speaker**, Group Discussion I, The Center for Research Collaboration on Graph Theory and Combinatorics, ITB, Bandung, Indonesia.
 - Speaker**, Talkshow and Research Expo World Quantum Day 2025, BRIN-Serpong, Indonesia.
- 2024 **Speaker**, ICTP Workshop on Classical and Quantum Machine Learning for Condensed Matter Physics|smr 3948, Webinar organized by ICTP, Italy.
 - Invited Speaker**, ICPTAM-2024, Bali, Indonesia.
 - Keynote Speaker**, The 2024 AICOMS Workshop on Quantum Technology, Bandung, Indonesia.
 - Speaker**, ITB-Pusan National University, Workshop "Advanced ICT Through The Integration of Artificial Intelligence, Quantum Computing, and Network Innovations", Bandung, Indonesia.
- 2023 **Keynote Speaker**, ICEEI-Int. Conf. on Elec. Eng. and Informatics, Bandung, Indonesia.
 - Plenary Speaker**, The 7th ICCST, Kuala Lumpur, Malaysia.
 - Keynote Speaker**, The 2023 AICOMS Workshop on Quantum Technology, Bandung, Indonesia.
 - Plenary Speaker**, The 2023 BRIN (Indonesia Research and Innovation Agency) Future Tech Talk Show, Jakarta, Indonesia.
- 2022 **Keynote Speaker**, The 2022 AICOMS Workshop on Quantum Technology, Bandung, Indonesia.
 - Invited Speaker**, ConQuest-The 1st Conference on Quantum Sciences and Technology, Hybrid, Indonesia.
- 2021 **Keynote Speaker**, ICEEI-Int. Conf. on Elec. Eng. and Informatics, Malaysia.
 - Keynote Speaker**, ICSIMA-Int. Conf. on Smart Instrumentation, Measurement, and Application, Bandung, Indonesia.

Keynote, Invited, and Plenary Speakers (continued)

- 2017  **Guest Speaker**, The GPR and Its Application Workshop, AESS/GRS Chapter, IEEE Indonesia Section, 2021.
- 2017  **Keynote Speaker**, ICRAMET-International Conference on. Radar, Antenna, Microwave, Electronics, and Telecommunications, Jakarta Indonesia.
- 2012  **Invited Speaker**, The Fall Conference of Korean Multimedia Society, Seoul, Korea
- 2012  **Invited Speaker**, ICMNS-International Conference in Mathematics and Natural Sciences.
- 2009  **Keynote Speaker**, The rICT-Int. Conference on Rural ICT, Bandung, Indonesia.
- 2005  **Keynote Speaker**, TSSA-The International Conference on Telecommunication Systems, Services, and Applications, Bandung, Indonesia.

Research Publications (selected out of >200 papers in Scopus database)

Journal Articles

- 1 N. Fitriah, H. Zakaria, A. Budikayanti, A. B. Suksmono, and T. L. E. R. Mengko, "Decoding speech imagery: A spectro-spatial approach to electroencephalography band power analysis," *IEEE Journal of Biomedical and Health Informatics*, 2025.  DOI: 10.1109/JBHI.2025.3631062
- 2 O. Heriana, A. Suksmono, H. Zakaria, and A. Prahasta, "Depth map reconstruction for scleral bleb models using structured light in light field imaging," *IEEE Access*, vol. 13, pp. 91 925–91 944, 2025.
- 3 F. C. Permana, F. F. Lubis, A. Z. R. L. Langi, A. Pradana, A. B. Suksmono, and K. Mutijarsa, "A study on the correlation between user sentiments and qoe parameters in video streaming services," *IEEE Access*, vol. 13, pp. 198 659–198 676, 2025.  DOI: 10.1109/ACCESS.2025.3635242
- 4 A. B. Suksmono, "A quantum approximate optimization method for finding hadamard matrices," *Scientific Reports*, vol. 15, p. 33 254, 2025.
- 5 S. Aulia, A. Suksmono, T. Mengko, and B. Alisjahbana, "A novel digitized microscopic images of zn-stained sputum smear and its classification based on iuatld grades," *IEEE Access*, vol. 12, pp. 51 364–51 380, 2024.
- 6 R. Sustika, A. Suksmono, D. Danudirdjo, and K. Wikantika, "Remote sensing image pansharpening using deep internal learning with residual double-attention network," *IEEE Access*, vol. 12, pp. 162 285–162 298, 2024.
- 7 L. Novamizanti, A. B. Suksmono, D. Danudirdjo, and G. Budiman, "Robust and imperceptible watermarking on medical images using coefficient pair modification," *IJUM Engineering Journal*, vol. 24, no. 1, pp. 88–105, 2023.
- 8 S. I. Lestaringati, A. B. Suksmono, I. J. M. Edward, and K. Usman, "Group class residual l1-minimization on random projection sparse representation classifier for face recognition," *Electronics (Switzerland)*, vol. 11, no. 17, 2022.
- 9 L. Novamizanti, A. B. Suksmono, D. Danudirdjo, and G. Budiman, "Robust reversible watermarking using stationary wavelet transform and multibit spread spectrum in medical images," *International Journal of Intelligent Engineering and Systems*, vol. 15, no. 3, pp. 343–354, 2022.
- 10 A. B. Suksmono and Y. Minato, "Quantum computing formulation of some classical hadamard matrix searching methods and its implementation on a quantum computer," *Scientific Reports*, vol. 12, no. 1, 2022.
- 11 M. S. Ukhtary, E. H. Hasdeo, A. B. Suksmono, and A. R. T. Nugraha, "Long-lived qubit entanglement by surface plasmon polaritons in a weyl semimetal," *Physical Review B*, vol. 106, no. 15, 2022.

- 12 R. Purnamasari, A. B. Suksmono, I. Zakia, and I. J. M. Edward, "Compressive sampling of polarimetric doppler weather radar processing via inverse fast fourier transform," *IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing*, vol. 14, pp. 5269–5284, 2021.
- 13 A. B. Suksmono, D. Danudirdjo, A. D. Setiawan, D. Rahmawati, and R. P. Prastio, "A magnetic field camera for real-time subsurface imaging applications," *Applied Sciences (Switzerland)*, vol. 11, no. 8, 2021.
- 14 A. B. Suksmono et al., "Classification of adeno carcinoma, high squamous intraepithelial lesion, and squamous cell carcinoma in pap smear images based on extreme learning machine," *Computer Methods in Biomechanics and Biomedical Engineering: Imaging and Visualization*, vol. 9, no. 2, pp. 115–120, 2021.
- 15 G. Budiman, A. B. Suksmono, and D. Danudirdjo, "Compressive sampling with multiple bit spread spectrum-based data hiding," *Applied Sciences (Switzerland)*, vol. 10, no. 12, 2020.
- 16 G. Budiman, A. B. Suksmono, and D. Danudirdjo, "Fft-based data hiding on audio in lwt-domain using spread spectrum technique," *Elektronika ir Elektrotechnika*, vol. 26, no. 3, pp. 20–27, 2020.
- 17 I. D. Irawati, I. J. M. Edward, and A. B. Suksmono, "Svd diagonal matrix reconstruction using omp," *Communications in Computer and Information Science*, vol. 1209 CCIS, pp. 319–331, 2020.
- 18 A. B. Suksmono and Y. Minato, "Finding hadamard matrices by a quantum annealing machine," *Scientific Reports*, vol. 9, no. 1, 2019.
- 19 I. D. Irawati, I. J. M. Edward, and A. B. Suksmono, "Low-rank representation for internet traffic reconstruction using compressive sampling," *Journal of Telecommunication, Electronic and Computer Engineering*, vol. 10, no. 1-4, pp. 147–152, 2018.
- 20 A. B. Suksmono, "Finding a hadamard matrix by simulated quantum annealing," *Entropy*, vol. 20, no. 2, 2018.
- 21 K. Usman, H. Gunawan, and A. B. Suksmono, "Sparse signal reconstruction using weight point algorithm," *Journal of ICT Research and Applications*, vol. 12, no. 1, pp. 35–53, 2018.
- 22 K. Usman, H. Gunawan, and A. B. Suksmono, "Compressive sensing reconstruction algorithm using l1-norm minimization via l2-norm minimization," *International Journal on Electrical Engineering and Informatics*, vol. 10, no. 1, pp. 37–50, 2018.
- 23 I. D. Irawati, A. B. Suksmono, and I. J. M. Edward, "Missing internet traffic reconstruction using compressive sampling," *International Journal of Communication Networks and Information Security*, vol. 9, no. 1, pp. 57–66, 2017.
- 24 H. Ludyati, A. B. Suksmono, and A. Munir, "Theoretical analysis of resonant frequency for anisotropic artificial circular dielectric resonator encapsulated in waveguide," *International Journal on Electrical Engineering and Informatics*, vol. 9, no. 2, pp. 259–270, 2017.
- 25 A. B. Suksmono, D. Danudirdjo, A. D. Setiawan, and D. Rahmawati, "Magnetic subsurface imaging systems in a smartphone based on the built-in magnetometer," *IEEE Transactions on Magnetics*, vol. 53, no. 11, 2017.
- 26 G. Budiman, A. B. Suksmono, D. Danudirdjo, K. Usman, and D. H. Shin, "A modified multicarrier modulation binary data embedding in audio file," *International Journal on Electrical Engineering and Informatics*, vol. 8, no. 4, pp. 762–773, 2016.
- 27 I. D. Irawati and A. B. Suksmono, "Image reconstruction based on compressive sampling using irls and omp algorithm," *Jurnal Teknologi*, vol. 78, no. 5, pp. 309–314, 2016.
- 28 A. Subekti, S. Nana Rachmana, Sugihartono, and A. B. Suksmono, "A blind spectrum sensing for cognitive radio based on jarque-bera normality test," *International Journal on Electrical Engineering and Informatics*, vol. 8, no. 2, pp. 402–412, 2016.

- 29 A. B. Suksmono and A. Hirose, "Reconstruction of holographic microscopy images based on matching pursuits on a pair of domains," *International Journal on Electrical Engineering and Informatics*, vol. 8, no. 3, pp. 553–566, 2016.
- 30 A. Subekti, Sugihartono, N. R. Syambas, and A. B. Suksmono, "A hof-based blind spectrum sensing in noise uncertainty," *Journal of ICT Research and Applications*, vol. 9, no. 1, pp. 20–38, 2015.
- 31 N. Syakrani, E. T. Baskoro, T. L. Mengko, and A. Suksmono, "New weighting alternatives to mcfn phase unwrapping," *International Journal of Tomography and Simulation*, vol. 28, no. 3, pp. 39–52, 2015.
- 32 T. Hidayat et al., "Radio frequency interference measurements in indonesia: A survey to establish a radio astronomy observatory," *Experimental Astronomy*, vol. 37, no. 1, pp. 85–108, 2014.
- 33 R. Rulaningtyas, A. Suksmono, T. Mengko, P. Saptawati, and Winarno, "The improvement of automatic scanning microscope based on intelligent systems to identify mycobacterium tuberculosis," *International Journal of Ecology and Development*, vol. 29, no. 3, pp. 14–31, 2014.
- 34 A. B. Suksmono, "Interpolation of psf based on compressive sampling and its application in weak lensing survey," *Monthly Notices of the Royal Astronomical Society*, vol. 443, no. 1, pp. 919–926, 2014.
- 35 A. B. Suksmono, "Improved compressive sampling sfcw radar by equipartition of energy sampling," *International Journal on Electrical Engineering and Informatics*, vol. 6, no. 3, pp. 553–561, 2014.
- 36 A. W. Setiawan, A. B. Suksmono, T. R. Mengko, and O. S. Santoso, "Performance evaluation of color retinal image quality assessment in asymmetric channel vq coding," *International Journal of E-Health and Medical Communications*, vol. 4, no. 3, pp. 1–19, 2013.
- 37 K. Adi, T. L. R. Mengko, A. B. Suksmono, and H. Gunawan, "Phase unwrapping using energy minimization methods for mri phase image," *International Journal of E-Health and Medical Communications*, vol. 1, no. 3, pp. 50–56, 2010.
- 38 K. Adi, A. B. Suksmono, T. L. R. Mengko, and H. Gunawan, "Phase unwrapping by markov chain monte carlo energy minimization," *IEEE Geoscience and Remote Sensing Letters*, vol. 7, no. 4, pp. 704–707, 2010.
- 39 A. Handayani, A. B. Suksmono, T. L. R. Mengko, and A. Hirose, "Blood vessel segmentation in complex-valued magnetic resonance images with snake active contour model," *International Journal of E-Health and Medical Communications*, vol. 1, no. 1, pp. 41–52, 2010.
- 40 A. A. Lestari, E. Bharata, A. B. Suksmono, A. Kurniawan, A. G. Yarovoy, and L. P. Ligthart, "A modified bow-tie antenna for improved pulse radiation," *IEEE Transactions on Antennas and Propagation*, vol. 58, no. 7, pp. 2184–2192, 2010.
- 41 A. B. Suksmono, E. Bharata, A. A. Lestari, A. G. Yarovoy, and L. P. Ligthart, "Compressive stepped-frequency continuous-wave ground-penetrating radar," *IEEE Geoscience and Remote Sensing Letters*, vol. 7, no. 4, pp. 665–669, 2010.
- 42 A. Pramudita, A. Kurniawan, A. Suksmono, and A. Lestari, "Effect of antenna dimensions on the antenna footprint in ground penetrating radar applications," *IET Microwaves, Antennas and Propagation*, vol. 3, no. 8, pp. 1271–1278, 2009.
- 43 N. Rachmana, Hendrawan, Sugihartono, and A. B. Suksmono, "Interpretation target pattern of a buried basic object on surface ground penetrating radar system," *International Journal on Electrical Engineering and Informatics*, vol. 1, no. 1, p. 4, 2009.
- 44 A. B. Suksmono, "Signal representation and the nonlinear property of phase images," *IEEE Geoscience and Remote Sensing Letters*, vol. 4, no. 4, pp. 606–610, 2007.
- 45 A. B. Suksmono and A. Hirose, "Progressive transform-based phase unwrapping utilizing a recursive structure," *IEICE Transactions on Communications*, vol. E89-B, no. 3, pp. 929–936, 2006.

- 46 A. B. Suksmono and A. Hirose, "A fractal estimation method to reduce the distortion in phase unwrapping process," *IEICE Transactions on Communications*, vol. E88-B, no. 1, pp. 364–371, 2005.
- 47 A. B. Suksmono and A. Hirose, "Beamforming of ultra-wideband pulses by a complex-valued spatio-temporal multilayer neural network," *International Journal of Neural Systems*, vol. 15, no. 1-2, pp. 85–91, 2005.
- 48 A. B. Suksmono and A. Hirose, "Intelligent beamforming by using a complex-valued neural network," *Journal of Intelligent and Fuzzy Systems*, vol. 15, no. 3-4, pp. 139–147, 2004.
- 49 A. B. Suksmono and A. Hirose, "Adaptive noise reduction of insar images based on a complex-valued mrf model and its application to phase unwrapping problem," *IEEE Transactions on Geoscience and Remote Sensing*, vol. 40, no. 3, pp. 699–709, 2002.
- 50 A. B. Suksmono and A. Hirose, "Interferometric sar image restoration using monte carlo metropolis method," *IEEE Transactions on Signal Processing*, vol. 50, no. 2, pp. 290–298, 2002.
- 51 A. B. Suksmono and A. Hirose, "Adaptive complex-amplitude texture classifier that deals with both height and reflectance for interferometric sar images," *IEICE Transactions on Electronics*, vol. E83-C, no. 12, pp. 1912–1916, 2000.

Books and Chapters

- 1 A. B. Suksmono, *Introduction To Compressive Sensing (in Bahasa Indonesia)*. Bandung, Indonesia: ITB Press, 2023, ISBN: 978-623-297-280-3.
- 2 S. Aulia, S. Hadiyoso, T. L. E. R. Mengko, and A. B. Suksmono, "Covid-19 and tuberculosis classification based on chest x-ray using convolutional neural network," in *Lecture Notes in Electrical Engineering*, vol. 746 LNEE, Springer, 2021, pp. 407–420.
- 3 I. D. Irawati, A. B. Suksmono, and I. J. M. Edward, "Comparing serial and parallel compressive sensing for internet traffic matrix," in *Lecture Notes in Engineering and Computer Science*, vol. 2233, Springer, 2018, pp. 387–392.
- 4 A. Z. Langi and A. B. Suksmono, Eds., *Advances in Electrical Engineering and Informatics, Volume-III*. Bandung, Indonesia: PPTIK Press, 2010, ISBN: 978-623-297-280-3.
- 5 A. B. Suksmono, *Complex-Valued Signal Processing and Compressive Sensing (in Bahasa Indonesia)*. Bandung, Indonesia: ITB Council of Professors, 2010, ISBN: 978-602-8468-16-9.
- 6 A. Z. Langi and A. B. Suksmono, Eds., *Advances in Electrical Engineering and Informatics, Volume-II*. Bandung, Indonesia: PPTIK Press, 2009, ISBN: 978-979-15509-5-6.
- 7 A. Z. Langi and A. B. Suksmono, Eds., *Advances in Electrical Engineering and Informatics*. Bandung, Indonesia: PPTIK Press, 2008, ISBN: 978-979-15509-3-2.
- 8 A. Z. Langi and A. B. Suksmono, Eds., *Information and Communication Technology as Indonesian Community Socioeconomics Development Platform*. Bandung, Indonesia: PPTIK Press, 2006, ISBN: 979-15509-0-5.
- 9 A. B. Suksmono and A. Hirose, "Ultra-wideband beamforming by using a complex-valued spatio-temporal neural network," in *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*, vol. 3316, Springer, 2004, pp. 104–109.
- 10 A. B. Suksmono and A. Hirose, "Adaptive beamforming by using complex-valued multi layer perceptron," in *Lecture Notes in Computer Science (including subseries Lecture Notes in Artificial Intelligence and Lecture Notes in Bioinformatics)*, vol. 2714, Springer, 2003, pp. 959–966.
- 11 A. B. Suksmono and A. Hirose, "Performance of adaptive beamforming by using complex-valued neural network," in *Lecture Notes in Artificial Intelligence (Subseries of Lecture Notes in Computer Science)*, vol. 2774 PART 2, Springer, 2003, pp. 311–317.