

Koredianto Usman



Staf Akademik / Dosen
Program Studi Teknik Telekomunikasi
Fakultas Teknik Elektro
Universitas Telkom
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Tempat Lahir : Tulung Selapan, Sumatera Selatan
Tanggal Lahir : October 2nd, 1975 (Indonesia)
Jenis Kelamin : Pria

Bidang Penelitian

Pengolahan Sinyal Audio dan Citra. Bidang terkait lainnya adalah pengolahan sinyal statistik dan adaptif.

Afiliasi Penelitian Saat ini

Laboratorium Telekomunikasi Radio dan Gelombang Mikro, Institut Teknologi Bandung (2013-sekarang)
Kelompok Keahlian Pengolahan Sinyal Informasi, Fakultas Teknik Elektro, Universitas Telkom (2008-sekarang)

Penelitian sebelumnya

Research Associate pada Nakajima Laboratory, Tokai University, Jepang (tahun 2003-2004 dan 2006-2007)

Pendidikan

Sep 2013-skrng Mahasiswa S3 pada Sekolah Tinggi Elektro dan Informatika, Institut Teknologi Bandung, Indonesia
1999-2001 M.Sc di bidang Communication Engineering
Pada Technical University of Munich, Jerman
Pembimbing Tesis : Prof. Dr-Ing. Wolfgang Utschick
Judul tesis: *Antenna Weight Verification for Eigenbeamformer Transmit Diversity in Wideband CDMA*

1994- 1999 S1 pada Teknik Elektro
Institut Teknologi Bandung, Indonesia

Penugasan Akademik Institusi

Jun 2010 – Jun 2012 Ketua Program Studi S1 Teknik Telekomunikasi, Institut Teknologi Telkom
Oct 2009 – Sekarang Anggota peneliti di Image Processing and Vision (IMV) research Group
Fakultas Teknik Elektro, Universitas Telkom

Jun 2009 – Mei 2010 Ketua Lab Pengolahan Sinyal Informasi

Dec 2001 – Sekarang Staf Akademik/Dosen
Program Studi Teknik Telekomunikasi, Universitas Telkom

2003-2004 Peneliti pada Tokai University, Nakajima Laboratory, Jepang

Penghargaan

2014 Hibah Penelitian Bersaing dari Dikti tahun kedua
2013 Hibah Penelitian Bersaing dari Dikti tahun pertama
2009 Hibah Penelitian Dosen Muda dari Dikti
2008 Juara kedua dosen teladan Kopertis II Jabar Banten

2007	Advanced Telecommunication Research Award from National Information and Communication Technology / NICT, Japan
2003	ITU Study Group 2 Q-14 on Telemedicine Research Award
1999	DAAD-SIEMENS 21th Century Asia Scholarships Award
1999	Werner von Siemens Excellence Awards

LANGUAGE

English	Lancar baca dan tulis TOEFL 587 (in 1999), 607 (in 2006) and 583 (in 2012)
German	Dasar (baca dan mendengar)

Daftar Publikasi

- Koredianto Usman, Andriyan Bayu Suksmono, Hendra Gunawan, 2015, *Uniform Non-Exhaustive Search on Sparse Reconstruction for Direction of Arrival Estimation*, Proceeding of International Conference of APWImob2015, Bandung.
- Sugondo Hadiyoso, Koredianto Usman, Achmad Rizal, Radian Sigit, 2013, *Desain Mini wearable ECG Berbasis Mikrokontroler*, INKOM, Vol. 7, No. 2, Article 250, November 2013
- Radian Sigit, Sugondo Hadiyoso, Achmad Rizal, Koredianto Usman, *Mini Wireless ECG for Monitoring Athletes' ECG Signal Based on Smartphone*, IOSR Journal of Engineering (IOSRJEN) Vol. 04, Issue 06, June. 2014
- Koredianto Usman, Andriyan Bayu Suksmono, Hendra Gunawan, 2014, *Peningkatan Kinerja Skema Estimasi Arah Kedatangan Sinyal dengan Compressive Sensing Sparsitas Sudut dengan Metode Multisnap Sampel*, Jurnal INKOM, LIPI, Vol 8, No.1, 2014
- Anggunmekha Luhur Prasasti, Koredianto Usman, Suryo Adhi Wibowo, 2012, *Detection and Analysis Convex and Convace Polygon on 2-D Object Using Radon Transform based on Digital Image Processing*, accepted at International Seminar of UTY 2012 : Global Competitiveness Through Research Supporting Commercial Industry, Jogjakarta, Indonesia.
- Suryo Adhi Wibowo, Koredianto Usman, Soehartono Tjondronegoro, 2012, *Simulasi dan Analisis Performansi Voice Activity Detection pada IS-127 Enhanced Variable Rate Code*, Proceeding of National Seminar SciETec2012, Malang, Indonesia. [in Indonesian]
- Ratri Dwi Atmaja, Achmad Rizal, Koredianto Usman, 2012, *Deteksi Jenis Kayu Citra Furniture Ukiran Jepara Menggunakan JST Back Propagation*, Konferensi Nasional Sistem Informasi 2012 [in Indonesian]
- Suryo Adhi Wibowo, Koredianto Usman, 2010, *Voice Activity Detection G729B Improvement Technique Using K-Nearest Neighbor Method*, IEEE Distributed Framework and Applications (Dfma) International Conference
- Hanung Tyas Saksono, Achmad Rizal, Koredianto Usman, 2010, *Pendeteksian Kanker Paru-Paru dengan Menggunakan Tranformasi Wavelet dan Metode Linear Discriminant Analysis*, e-Journal Universitas Udayana
- Erik Kalalembang, Koredianto Usman, Irwan Prasetya Gunawan, 2009, *DCT-Based Local Motion Blur Detection*, IEEE, International Conference on Instrumentation Communication Information Technology and Biomedical Engineering 2009
- Koredianto Usman, 2008, *Perhitungan Sel Darah Merah Bertumpuk Berbasis Pengolahan Citra Digital dengan Operasi Morfologi*, Prosiding Seminar Nasional Informatika, Yogyakarta. [in Indonesian]
- Laila Madyo, Koredianto Usman, Hertog Nugroho, 2008, *Otomatisasi Penghitungan Sel Darah Merah Berbasis Pengolahan Citra Digital Dengan Metode Analisis Warna dan Ukuran Sel*, Prosiding Seminar Nasional Teknologi IV: Penerapan Teknologi Untuk Meningkatkan Kesejahteraan Masyarakat Secara Berkelanjutan, UPN Yogyakarta [in Indonesian]
- Isao Nakajima, Koredianto Usman, 2007, *Wavelet Technology in Wearable Terminals For ETS-VIII Satellite*, Japanese Journal of Telemedicine and Telecare, Vol.3 No.1. 2007, ISSN: 1880-800x, Page.11-16

- Koredianto Usman, et.al, 2007, *Medical Image Encryption Based on Pixel Arrangement and Random Permutation for Transmission Security*, *Proceeding*, IEEE Healthcom2007, Toward the Ubiquitous Network, ISBN: 1-4244-0942-X, p.244-247, Taipei, Taiwan
- Koredianto Usman, Hiroshi Juzoji, M.A.Sadiq, Isao Nakajima, 2007, *Wavelet-Based Watermarking Scheme for Color Doppler Echocardiograph data in Telemedicine Transmission Application*, *Journal of eHealth Technology and Application*, Vol.5 No.1, Feb 2007, ISSN 1881-4681, Page 77-81
- Andreas T, Koredianto Usman, 2006, *Identifikasi Tanda Tangan Menggunakan Filter 2D Gabor Wavelet dan Jaringan Syaraf Tiruan Adaptive Resonance Theory (ART)*, *International Seminar on Electrical Power, Electronics, Communication, Control and Informatics, EECIS 2006*, Page.E.45-E.50. [in Indonesian]
- Koredianto Usman, 2005, *Analisis Kinerja Random Generator Number Chaotic Pada Image Watermarking Menggunakan Transformasi Wavelet*, *Jurnal Teknologi Informasi dan Telekomunikasi*, Tahun 6 No 3 ISSN:1412-6397, Page.92-99, Malang, Jawa Timur [in Indonesian]
- Koredianto Usman, Hiroshi Juzoji, Isao Nakajima, M.A.Sadiq, 2004, *A Study of Increasing the Speed of Independent Component Analysis Using Wavelet*, *IEEE Healthcom2004*, Odawara, Japan

Penugasan Pengajaran (Sebelum Tugas Belajar tahun 2013)

No	Academic Year	Subject	Credits
1	Semester Genap of 2011/2012	<ul style="list-style-type: none"> • Signal and Linear System • Electromagnetics II • Seminar and Proposal 	3 credits 3 credits 2 credits
2	Semester Ganjil 2011/2012	<ul style="list-style-type: none"> • Electromagnetics II 	3 credits
3	Semester Genap 2010/1011	<ul style="list-style-type: none"> • Electromagnetics II • Coding and Compression 	3 credits 3 credits
4	Semester Ganjil 2010/2011	<ul style="list-style-type: none"> • Electromagnetics I • Digital Signal Processing 	3 credits 3 credits
5	Semester Genap 2009/2010	<ul style="list-style-type: none"> • Signal and Linear System 	9 credits (3 classes, 3 credits each)
6	Semester Ganjil 2008/2009	<ul style="list-style-type: none"> • Signal and Linear System • Digital Signal Processing • Seminar and Proposal 	3 credits 3 credits 3 credits

Tugas Pelayanan Akademik

- 2015 : reviewer of ICREC2015 conference
- 2015 : reviewer of *Journal of Measurements, Electronics, Communication, and Systems*
- 2015 : reviewer of ICEEI Conference 2015
- 2012 : reviewer for National Journal "Jurnal Rekayasa Elektrika", University Of Syiah Kuala
- 2009 : referee on 2nd National Student Competition on Communication and Information (GEMASTIK)
- 2007 : moderator on International Conference on Telecommunication (ICTEL2007) held by Sekolah Tinggi Teknologi Telkom
- 2006 : instructor on Design and Realizaion of UHF TV Antenna held by Sekolah Tinggi Teknologi Telkom
- 2006 : committee at IEEE Distinguished Lecturer Program on theme : Vision of a Future of Ubiquitous Telecommunications, held by Sekolah Tinggi Teknologi Telkom
- 2005 : instructor on RF and Network Engineering workshop held by Telecommunication Society of Indonesia

- 2003 : speaker at the seminar of Antenna Design and Realization held by Transmission Telecommunication Laboratory, Sekolah Tinggi Teknologi Telkom

Saya menyatakan dengan ini data yang tertulis pada CV ini adalah benar.

Tertanda

Koredianto Usman