Publikationsbericht 2007

Institut für Elektronik, Signalverarbeitung und Kommunikationstechnik

Otto-von-Guericke-Universität Magdeburg

Fakultät für Elektrotechnik und Informationstechnik

Institut für Elektronik, Signalverarbeitung und Kommunikationstechnik

Universitätsplatz 2, 39106 Magdeburg

Tel. +49 (0)391 67 18860, Fax +49 (0)391 67 11231

info@iesk.et.uni-magdeburg.de

1. Leitung

Prof. Dr.-Ing. Ulrich Kleine

Prof. Dr.-Ing. habil. Bernd Michaelis (geschäftsführender Leiter)

Prof. Dr.-Ing. Abbas Omar

Prof. Dr. rer. nat Georg Rose

Prof. Dr. rer. nat. Andreas Wendemuth

2. Hochschullehrer

Prof. Dr.-Ing. Ulrich Kleine (Integrierte Schaltungen)

Prof. Dr.-Ing. habil. Bernd Michaelis (Technische Informatik)

Prof. Dr.-Ing. Abbas Omar (Hochfrequenz- und Kommunikationstechnik)

Prof. Dr. rer. nat Georg Rose (Medizinische Telematik)

Prof. Dr. rer. nat. Andreas Wendemuth (Kognitive Systeme)

3. Veröffentlichungen

Originalartikel in begutachteten internationalen Zeitschriften

Al-Hamadi, Ayoub K. ; Niese, Robert; Michaelis, Bernd
Multiobject tracking in video using a trisection paradigm
In: Pattern recognition and image analysis. - Moscow: MAIK Nauka/Interperiodica Publ., Bd. 17.2007, 4, S. 493-507

Balalem, Atallah; Ali R., Ali; Machac, Jan; Omar, Abbas
Quasi-elliptic microstrip low-pass filters using an interdigital DGS slot
In: Institute of Electrical and Electronics Engineers: IEEE microwave and wireless components letters. - New York, NY: Inst., Bd. 17.2007, 8, S. 586-588; **Link unter URL**
[Imp.fact.: 1.424]

Boutejdar, Ahmed; Elsherbini, A. ; Haiwen, Liu; Omar, Abbas
Improvement of microstrip low pass filters' characteristics using an optimized number of new multi-ring defected ground structures
In: Microwave and optical technology letters. - New York, NY [u.a.]: Wiley, Bd. 49.2007, 12, S. 3074-3078;
Link unter URL
[Imp.fact.: 0.568]

Herzog, Andreas; Kube, Karsten; Michaelis, Bernd; Lima, Ana D. de; Voigt, Thomas
Displaced strategies optimize connectivity in neocortical networks
In: Neurocomputing. - Amsterdam: Elsevier, Bd. 70.2007, 7/9, S. 1121-1129; **Link unter URL**
[Imp.fact.: 0.860]

Kube, Karsten; Herzog, Andreas; Michaelis, Bernd; Lima, Ana D. de; Voigt, Thomas

Spike-timing-dependent plasticity in small-world networks
In: Neurocomputing. - Amsterdam: Elsevier; **Link unter URL**
[Imp.fact.: 0.860]

Lilienblum, Erik; Michaelis, Bernd
Optical 3D surface reconstruction by a multi-period phase shift method
In: Journal of computers. - Oulu: Academy Publisher, Bd. 2.2007, 2, S. 73-83; **Abstract unter URL**

Niese, Robert; Al-Hamadi, Ayoub; Michaelis, Bernd
A novel method for 3D face detection and normalization
In: Journal of multimedia. - Oulu: Academy Publ., Bd. 2.2007, 5, S. 1-12; **Abstract unter URL**

Niese, Robert; Al-Hamadi, Ayoub; Michaelis, Bernd
Nearest neighbor classification for emotion recognition in stereo image sequences
In: ISAST transactions on electronics and signal processing. - S.I., Bd. 1.2007, 1, S. 88-94

Originalartikel in begutachteten nationalen Zeitschriften

Wendemuth, Andreas
Computer hört aufs Wort
In: Magdeburger Wissenschaftsjournal. - Magdeburg: Univ., Bd. 11.2006, 1/2, S. 3-12, 2007

Originalartikel in begutachteten zeitschriftenartigen Reihen

Awida, Mohamed; Boutejdar, Ahmed; Safwat, Amr; El-Hennawy, Hadia; Omar, Abbas
Multi-bandpass filters using multi-armed open loop resonators with direct feed
In: 2007 IEEE MTT-S International Microwave Symposium, Honolulu, Hawaii, June 03 - 08, 2007. - [Piscataway, NY]: IEEE Operations Center, S. 913-916
[MTT-S 2007; (Honolulu, Hawaii): 2007.06.03-08]

Batmanov, Anatoliy; Boutejdar, Ahmed; Burte, Edmund P. ; Omar, Abbas
New compact MEMS-switch controlled tunable DGS coplanar bandpass filter
In: ESSDERC 2007 - ESSCIRC 2007. - Piscataway, NJ: IEEE Service Center, S. 438-441
[ESSDERC 2007; 37 (Munich, Germany): 2007.09.11-13]

Batmanov, Anatoliy; Spiliotis, Nikolaos; Boutejdar, Ahmed; Burte, Edmund P. ; Omar, Abbas
Control of bandwidth and resonant frequency of a new coplanar bandpass filter
In: "Technology convergence. - Piscataway NJ: IEEE Service Center, S. 5, 2007
[Asia-Pacific Microwave Conference; (Bangkok, Thailand): 2007.12.11-14]

Bölke, Torsten; Seshadhri, Santhosh; Gürvit, Özlem; Bade, Ragnar; Preim, Bernhard; Janiga, Gábor; Skalej, Martin; Serowy, Steffen; Rose, Georg
Phantom based flow analysis by means of dynamic angiography, CFD and laser-doppler-velocimetry
In: 2007 IEEE Nuclear Science Symposium and Medical Imaging Conference. - Piscataway, NJ: IEEE Service Center, S. 3440-3445
[Medical Imaging Conference (MIC); (Honolulu, Hawai): 2007.10.27-11.03]

Boutejdar, Ahmed; Elsherbini, A. ; Balalem, Atallah; Machac, J. ; Omar, Abbas
Design of new DGS hairpain microstrip bandpass filter using coupling matrix method
In: PIERS 2007 Prague. - Cambridge, Mass. : Electromagnetics Academy, S. 261-265
[PIERS 2007; (Prague, Czech Republic): 2007.08.27-30]

Boutejdar, Ahmed; Elsherbini, Adel; Batmanov, Anatoliy; Omar, Abbas
A novel technique for controlling transition steepness and rejection bandwidth in DGS filters

In: "Technology convergence. - Piscataway NJ: IEEE Service Center, insges. 4 S., 2007

[Asia-Pacific Microwave Conference; (Bangkok, Thailand): 2007.12.11-14]

Boutejdar, Ahmed; Elsherbini, Adel; Batmanov, Anatoliy; Omar, Abbas

A novel technique to transform a fractal LPF to BPF using a simple combination of defected ground structure (DGS) and a narrow gap capacitive

In: "Technology convergence. - Piscataway NJ: IEEE Service Center, insges. 4 S., 2007

[Asia-Pacific Microwave Conference; (Bangkok, Thailand): 2007.12.11-14]

Boutejdar, Ahmed; Elsherbini, Adel; Smain, Amari; Omar, Abbas

A new technique to double the rejectband of a low-pass filter by employing coupled C-open-loop resonators as defected ground structure (DGS)

In: "Technology convergence. - Piscataway NJ: IEEE Service Center, insges. 4 S., 2007

[Asia-Pacific Microwave Conference; (Bangkok, Thailand): 2007.12.11-14]

Camilleri, Patrick; Giulioni, Massimiliano; Dante, Vittorio; Badoni, Davide; Indiveri, Giacomo; Michaelis, Bernd; Braun, Jochen; Giudice, Paolo del

A neuromorphic a VLSI network chip with configurable plastic synapses

In: HIS 2007. - Los Alamitos, Calif. [u.a.]: IEEE Computer Society, S. 296-301; **Link unter URL**

[International Conference on Hybrid Intelligent Systems; 7 (Kaiserslautern): 2007.09.17-19]

Herzog, Andreas; Kube, Karsten; Michaelis, Bernd; Lima, Ana D. de; Voigt, Thomas

Multi-population approach to approximate the development of neocortical networks

In: CEC 2007. - Piscataway, NJ: IEEE Operations Center, S. 628-633

[IEEE Congress on Evolutionary Computation; (Singapore): 2007.09.25-28]

Herzog, Andreas; Kube, Karsten; Michaelis, Bernd; Lima, Ana D. de; Voigt, Thomas

Structural adaptation in young neocortical networks modeled by spatially coupled oscillators

In: IJCNN 2007 Conference Proceedings, S. 3041-3044

Herzog, Andreas; Kube, Karsten; Michaelis, Bernd; Lima, Ana D. de; Voigt, Thomas

Transition from initialization to working stage in biologically realistic networks

In: Advances in computational intelligence and learning. - Evere: d-side, S. 421-426, 2007

Kube, Karsten; Herzog, Andreas; Michaelis, Bernd; Lima, Ana D. de; Voigt, Thomas

Synchronization in complex dynamical networks

In: Institute of Electrical and Electronics Engineers: Proceedings of the 2007 IEEE Symposium on Computational Intelligence in Bioinformatics and Computational Biology (CIBCB 2007); Honolulu, HI, 1 - 5 April 2007. - IEEE Operations Center, S. 426-431

Niese, Robert; Al-Hamadi, Ayoub; Panning, Axel; Michaelis, Bernd

Real-time capable method for facial expression recognition in color and stereo vision

In: Computational science and its applications - ICCSA 2007; Pt. 1:. - Berlin [u.a.]: Springer, S. 397-408; Lecture notes in computer science; 4705

Serowy, Steffen; Gürvit, Özlem; Skalej, Martin; Rose, Georg

A Jacobi-like solution to the model based tomographic x-ray perfusion imaging

In: 2007 IEEE Nuclear Science Symposium and Medical Imaging Conference. - Piscataway, NJ: IEEE Service Center, S. 3085-3088

[Medical Imaging Conference (MIC); (Honolulu, Hawai): 2007.10.27-11.03]

Stuhlsatz, André; Meier, Hans-Günter; Wendemuth, Andreas

Maximum margin classification on Convex euclidean metric spaces

In: Computer recognition systems; 2:. - Berlin [u.a.]: Springer, insges. 8 S.; Advances in soft computing; 45, 2007

Vlasenko, Bogdan; Schuller, Björn; Wendemuth, Andreas; Rigoll, Gerhard
Frame vs. turn-level - emotion recognition from speech considering static and dynamic processing
In: Affective computing and intelligent interaction. - Berlin [u.a.]: Springer, insges. 10 S.; Lecture notes in computer science; 4738, 2007
Kongress: ACII; 2 (Lisbon): 2007.09.12-14
International Conference on Affective Computing and Intelligent Interaction; 2 (Lisbon): 2007.09.12-14

Wissenschaftliche Monografien

Bandyopadhyay, Ayan K. ; Jöstingmeier, Andreas; Omar, Abbas; Wanzenberg, R.
Wakes and impedance computations for the PETRA III longitudinal feedback cavity. - Internal report / DESY;
Hamburg: Dt. Elektronen-Synchrotron DESY; 28 S: graph. Darst, 2007

Buchbeiträge

Ahmad, Mostafa A. ; Al-Hamadi, Ayoub; Krell, Gerald; Michaelis, Bernd
Very low bit rate video codec based on different wavelet filters
In: Computational science and applications. - IEEE, S. 65-71, 2007
[International Conference on Computational Science and Applications; 5 (Kuala Lumpur): 2007.08.26-29]

Al-Hamad, Mostafa; Al-Hamadi, Ayoub; Krell, Gerald; Michaelis, Bernd
Enhanching the visual quality in hybrid filters wavelet-based low bit-rate video codec
In: Measurement of speech, audio and video quality in networks. - Prague, insges. 7 S., 2007
[MESAQIN 2007; (Prague): 2007.06.07-08]

Ali Ramadan, Ali; Omar, Abbas
Complexity reduction for DRM system using time domain preprocessing
In: 2007 IEEE Radio and Wireless Symposium. - Piscataway, NJ: IEEE Service Center, S. 213-216
[IEEE Radio and Wireless Symposium; (Long Beach, Calif.): 2007.01.07-12]

Anis, Michael; Jöstingmeier, Andreas; Omar, Abbas
Introduction of an effective waveguide width in transmission/reflection methods for dielectric measurements
In: 2007 IEEE Antennas and Propagation Society international symposium. - Piscataway, NJ: IEEE Operations Center, S. 281-284
[APS 2007; 2007 (Honolulu, Hawaii, USA): 2007.06.10-15]

Bade, Ragnar; Schumann, Christian; Oldhafer, K. J. ; Seshadhri, S. ; Janiga, Gábor; Bölke, Thorsten; Krischek, Özlem; Kalej, Martin; Rose, Georg; Thevenin, Dominique; Preim, Bernhard
High-quality surface generation flow simulation in cerebral aneurysms
In: CURAC 2007. - Berlin: Pro Business, S. 125-128
[Curac 2007; (Karlsruhe): 2007.10.11-13]

Bähr, Rüdiger; Pavlak, Lubos; Riefenstahl, Nils
Untersuchung der Strömungsvorgänge beim Gießen hochbeanspruchter Bauteile durch hochauflösende Videotechnik
In: AUTOMOTIVE. - Magdeburg: Univ., S. 220-228, 2007
[Magdeburger Maschinenbau-Tage; 8 (Magdeburg): 2007.10.10-11]

Balalem, Atallah; Machac, Jan; Omar, Abbas
Quasi-lumped filters on doubly metallized planar lines
In: Proceedings of 17th International Conference Radioelektronika 2007. - Piscataway, NJ: IEEE Service Center, insges. 3 S.
[International Conference Radioelektronika; 17 (Brno): 2007.04.24-25]

Bandyopadhyay, Ayan K. ; Anis, Michael; Jöstingmeier, Andreas; Meyer, Tobias; Omar, Abbas
Analysis of a compact ultra-wideband antenna for radio frequency applications
In: 2007 IEEE Antennas and Propagation Society international symposium. - Piscataway, NJ: IEEE Operations Center, S. 1965-1968
[APS 2007; 2007 (Honolulu, Hawaii, USA): 2007.06.10-15]

Bendicks, Christian; Michaelis, Bernd; Hofmann, Marc; Mecke, Rüdiger
Photogrammetrische Erfassung und Simulation formveränderlicher Oberflächen
In: AUTOMOTIVE. - Magdeburg: Univ., S. 245-252, 2007
[Magdeburger Maschinenbau-Tage; 8 (Magdeburg): 2007.10.10-11]

Bordás, Robert; Fellegi, György; Wunderlich, Bernd; Kuhn, Robert; Thévenin, Dominique; Michaelis, Bernd
Appropriate tracers to measure velocities in particle-laden gas flows using optical techniques
In: International Conference on Multiphase Flow <6, 2007, Leipzig>: Proceedings of the ICMF 2007, 6th International Conference on Multiphase Flow. - Leipzig, insges. 7 S.
[International Conference on Multiphase Flow; 6 (Leipzig): 2007.07.09-13]

Boutejdar, Ahmed; Amari, S. ; Elsherbini, A. ; Omar, Abbas
A novel lowpass filter with ultra-wide stopband and improved Q-factor performance using H-defected ground structure (DGS)
In: 2007 IEEE Antennas and Propagation Society international symposium. - Piscataway, NJ: IEEE Operations Center, S. 1545-1548
[APS 2007; 2007 (Honolulu, Hawaii, USA): 2007.06.10-15]

Boutejdar, Ahmed; Elsherbini, A. ; Omar, Abbas
A new cross-head defected ground structure (CDGS) for a compact low-pass filter with a wide stop-band
In: Proceedings of the 37th European Microwave Conference, EuMC as part of the European Microwave Week, EuMW 2007. - London: Horizon House Publ. Ltd, S. 842-845
[EuMC; 37 (Munich, Germany): 2007.10.08-12]

Boutejdar, Ahmed; Elsherbini, A. ; Omar, Abbas
A new extraction method using triangle defected ground structure for the control of S-parameter response of hi-lo microstrip low-pass filter
In: 2007 IEEE Antennas and Propagation Society international symposium. - Piscataway, NJ: IEEE Operations Center, S. 1549-1552
[APS 2007; 2007 (Honolulu, Hawaii, USA): 2007.06.10-15]

Boutejdar, Ahmed; Elsherbini, A. ; Omar, Abbas
A new numerical method to improve the stopband of compact lowpass filter employing defected ground structure (DGS)
In: 2007 IEEE Antennas and Propagation Society international symposium. - Piscataway, NJ: IEEE Operations Center, S. 1553-1556
[APS 2007; 2007 (Honolulu, Hawaii, USA): 2007.06.10-15]

Boutejdar, Ahmed; Makkey, M. ; Elsherbini, A. ; Luxor, O. ; Omar, Abbas
Design of compact extended-stopband microstrip low-pass filters by employing new mutual-coupling technique for defected ground structures (DGSs)
In: Proceedings of the 37th European Microwave Conference, EuMC as part of the European Microwave Week, EuMW 2007. - London: Horizon House Publ. Ltd, S. 71-74
[EuMC; 37 (Munich, Germany): 2007.10.08-12]

El-Etriby, Sherif; Al-Hamadi, Ayoub K. ; Michaelis, Bernd
Dense stereo correspondence with slanted surface using phase-based algorithm
In: 2007 IEEE International Symposium on Industrial Electronics, June 4-7, 2007, Vigo, Spain. - Piscataway, NJ:

IEEE, S. 1807-1813
[ISIE 2007]

Hofmann, Marc; Mecke, Rüdiger; Bendicks, Christian; Michaelis, Bernd
Modellbasierter Ansatz zur dynamischen 3D-Vermessung formveränderlicher Oberflächen
In: 3D-NordOst 2007. - Berlin: Gesellschaft zur Förderung Angewandter Informatik, S. 47-55
[Anwendungsbezogener Workshop zur Erfassung, Modellierung, Verarbeitung und Auswertung von 3D-Daten; 10 (Berlin): 2007.12.06-07]

Hofmann, Marc; Mecke, Rüdiger; Bendicks, Christian; Michaelis, Bernd
Modellunterstützte photogrammetrische Vermessung dynamischer Oberflächen
In: Photogrammetrie - Laserscanning - optische 3D-Messtechnik. - Heidelberg: Wichmann, S. 12-19, 2007
[Oldenburger 3D-Tage; 6 (Oldenburg): 2007.01.31-02.01]

Kaszubiak, Jens; Kuhn, Robert; Tornow, Michael; Michaelis, Bernd
Real-time 3-d environment capture systems
In: Scene reconstruction, pose estimation and tracking. - Vienna: I-Tech Education and Publ., S. 197-220, 2007

Katz, Marcel; Schafföner, Martin; Andeli´c, Edin; Krüger, Sven E. ; Wendemuth, Andreas
Discriminative Kernel classifiers in speaker recognition
In: Fortschritte der Akustik. - Berlin: Dt. Ges. für Akustik, insges. 2 S., 2007
[DAGA; 33 (Stuttgart): 2007.03.19-22]

Katz, Marcel; Schafföner, Martin; Krüger, Sven E. ; Wendemuth, Andreas
Score calibrating for speaker recognition based on support vector machines and gaussian mixture models
In: Proceedings of the Ninth IASTED International Conference on Signal and Image Processing. - Iasted, insges. 6 S., 2007
[IASTED International Conference on Signal and Image Processing; (Honolulu, Hawaii): 2007.08.20-22]

Knauf, Rainer; Böck, Ronald; Sakurai, Yoshitaka; Dohi, Shinishi; Tsuruta, Setsuo
Using storyboarding and data mining to estimate success chances of curricula
In: IADIS International Conference on Cognition and Exploratory Learning in Digital Age, CELDA 2007. - IADIS, S. 235-242
[CELDA 2007; (Algarve, Portugal): 2007.12.07-09]

Krüger, Sven E. ; Schafföner, Martin; Katz, Marcel; Andeli´c, Edin; Wendemuth, Andreas
Support vector machines as acoustic models in speech recognition
In: Fortschritte der Akustik. - Berlin: Dt. Ges. für Akustik, insges. 2 S., 2007
[DAGA; 33 (Stuttgart): 2007.03.19-22]

Kuhn, Robert W. ; Bordas, Robert; Wunderlich, Bernd; Michaelis, Bernd; Thévenin, Dominique
Collour class identification of tracers using artificial neural networks
In: Proceedings of the 10th International Conference on Engineering Applications of Neural Networks, EANN 2007. - Thessaloniki, S. 387-394
[International Conference on Engineering Applications of Neural Networks; 10 (Thessaloniki): 2007.08.29-31]

Lilienblum, Erik; Michaelis, Bernd
Digitalisation of warped documents supported by 3D-surface reconstruction
In: Vision systems in the real world. - Bielefeld: Univ., insges. 10 S., 2007
[ICVS 2007; 5 (Bielefeld): 2007.03.21-24]

Ovtscharoff, Wladimir; Riedel, Anett; Kubisch, C. ; Stoyanov, S. ; Helmecke, Carina; Herzog, Andreas; Michaelis, Bernd
3d-brain model software - a new interactive real-time graphics visualization for rat brain
In: Bildverarbeitung für die Medizin 2007. - Berlin [u.a.]: Springer, S. 348-352

[Workshop Bildverarbeitung für die Medizin; (München): 2007.03.25-27]

Schafföner, Martin; Andeli´c, Edin; Katz, Marcel; Krüger, Sven E. ; Wendemuth, Andreas
Memory-efficient orthogonal least squares kernel density estimation using enhanced empirical cumulative distribution functions
In: Proceedings of the eleventh International Conference on Artificial Intelligence and Statistics. - omnipress, insges. 8 S., 2007
[International Conference on Artificial Intelligence and Statistics; 11 (San Juan): 2007.03.21-24]

Schuller, Björn; Vlasenko, Bogdan; Minguez, Ricardo; Rigoll, Gerhard; Wendemuth, Andreas
Comparing one and two-stage acoustic modeling in the recognition of emotion in speech
In: 2007 IEEE Workshop on Automatic Speech Recognition and Understanding. - Piscataway, NJ: IEEE Operations Center, S. 596-600
[IEEE Workshop on Automatic Speech Recognition and Understanding; (Kyoto, Japan): 2007.12.09-13]

Stuhlsatz, André
HSVM - a SVM toolkit for segmented speech data
In: Elektronische Sprachsignalverarbeitung. - Dresden, insges. 8 S., 2007
[Konferenz "Elektronische Sprachsignalverarbeitung"; 18 (Cottbus): 2007.09.10-12]

Tadesse Mengistu, Kinfe; Katz, Marcel; Wendemuth, Andreas
Acoustic modeling for a speaker-independent telephone-based spoken dialog system
In: XII International Conference SPECOM 2006. - Moscow, S. 469-474, 2007
[SPECOM 2007; 12 (Moscow): 2007.10.15-18]

Tadesse Mengistu, Kinfe; Schafföner, Martin; Wendemuth, Andreas
Gender recognition and Gender-based acoustic model adaptation for telephone-based spoken dialog system
In: Elektronische Sprachsignalverarbeitung. - Dresden, insges. 8 S., 2007
[Konferenz "Elektronische Sprachsignalverarbeitung"; 18 (Cottbus): 2007.09.10-12]

Tadesse Mengistu, Kinfe; Wendemuth, Andreas
Telephone-based spoken dialog system using HTK-based speech recognizer and voiceXML
In: Fortschritte der Akustik. - Berlin: Dt. Ges. für Akustik, insges. 1 S., 2007
[DAGA; 33 (Stuttgart): 2007.03.19-22]

Teggatz, Alexander; Jöstingmeier, Andreas; Omar, Abbas
Application of a dielectric lens for focusing of a GPR
In: 2007 IEEE Antennas and Propagation Society international symposium. - Piscataway, NJ: IEEE Operations Center, S. 1461-1464
[APS 2007; 2007 (Honolulu, Hawaii, USA): 2007.06.10-15]

Vlasenko, Bogdan; Schuller, Björn; Wendemuth, Andreas; Rigoll, Gerhard
Combining frame and turn-level information for robust recognition of emotions within speech
In: Eighth Annual Conference of the International Speech Communication Association. - ISCA, S. 2249-2253, 2007
[Annual Conference of the International Speech Communication Association; 8 (Antwerp, Belgium): 2007.08.27-31]

Vlasenko, Bogdan; Wendemuth, Andreas
Tuning Hidden Markov model for speech emotion recognition
In: Fortschritte der Akustik. - Berlin: Dt. Ges. für Akustik, insges. 1 S., 2007
[DAGA; 33 (Stuttgart): 2007.03.19-22]

Will, Karl; Meyer, Tobias; Omar, Abbas
Microwave synthesizer with multiple phase adjustable output
In: Proceedings of the 37th European Microwave Conference, EuMC as part of the European Microwave Week,

EuMW 2007. - London: Horizon House Publ. Ltd, insges. 4 S.
[EuMC; 37 (Munich, Germany): 2007.10.08-12]

Will, Karl; Meyer, Tobias; Omar, Abbas
Phase measurement of microwave devices with amplitude independent ultra-fine resolution
In: Proceedings of the 37th European Microwave Conference, EuMC as part of the European Microwave Week, EuMW 2007. - London: Horizon House Publ. Ltd, insges. 4 S.
[EuMC; 37 (Munich, Germany): 2007.10.08-12]

Wunderlich, Bernd; Bordás, Róbert; Santhosh, S. ; Bölke, Torsten; Thévennin, Dominique; Skalej, Martin
LDA-Messungen in Blutgefäßen mittels Berechnungsindex-Anpassung
In: Fachtagung Lasermethoden in der Strömungsmesstechnik <15, 2007, Rostock>: Tagungs-CD // 15. Fachtagung Lasermethoden in der Strömungsmesstechnik. - Karlsruhe: Dt. Ges. für Laser-Anemometrie, insges. 7 S.
[Fachtagung "Lasermethoden in der Strömungsmesstechnik"; 15 (Rostock): 2007.09.04-06]

Artikel in Kongressbänden

Al-Hamadi, Ayoub; Homberg, Ulrike; Niese, Robert; Michaelis, Bernd
Eff[i]cent tracking approach of multiple interacting objects using data association
In: The 22nd International Symposium on Computer and Information Sciences, ISCIS'07. - IEEE, insges. 6 S., 2007
[International Symposium on Computer and Information Sciences; 22 (Ankara): 2007.11.07-09]

Ali Ramadan, Ali; Khanzada, Tariq Jamil Saifullah; Omar, Abbas
Adaptive pilot distribution for OFDM-based WLAN systems in doubly dispersive channels
In: "A broadband wireless world for all". - IEEE, insges. 5 S., 2007
[Wireless Rueal and Emergency Communications Conference; (Rome): 2007.10.01-02]

Andeli´c, Edin; Schafföner, Martin; Katz, Marcel; Krüger, Sven E. ; Wendemuth, Andreas
Updates for nonlinear discriminants
In: Twentieth International Joint Conference on Artificial Intelligence, IJCAI-07. - IJCAI, insges. 6 S., 2007
[International Joint Conference on Artificial Intelligence; 19 (Hyderabad, India): 2007.01.06-12]

Bandyopadhyay, Ayan K. ; Jöstingmeier, Andreas; Omar, Abbas; Balewski, K. ; Wanzenberg, R.
Computation of wakefields and impedances for the PETRA III longitudinal feedback cavity
In: Proceedings of the Asian Particle Accelerator Conference, APAC 2007. - Raja Ramanna Centre for Advanced Technology, S. 124-126
[Asian Particle Accelerator Conference; (Indore, India): 2007.01.29-02.02]

Boutejdar, Ahmed; Omar, Abbas
A new methode to suppress high harmonic of lowpass filter using compensated microstrip line and coupled DGS
In: 2007 IEEE Sarnoff Symposium. - IEEE, insges. 4 S.
[IEEE Sarnoff Symposium; (Princeton, NJ): 2007.04.30-05.02]

Boutejdar, Ahmed; Omar, Abbas
A new technique to improve the stopband of miniaturized microstrip low-pass filter by using a cross-head defected ground structure (CDGS)
In: 2007 IEEE Sarnoff Symposium. - IEEE, insges. 4 S.
[IEEE Sarnoff Symposium; (Princeton, NJ): 2007.04.30-05.02]

Elmezian, Mahmoud; Al-Hamadi, Ayoub K. ; Krell, Gerald; El-Etriby, Sherif; Michaelis, Bernd
Gesture recognition for alphabets from hand motion trajectory using Hidden Markov models
In: 7th IEEE International Symposium on Signal Processing and Information Technology. - Piscataway, NJ: IEEE Operations Center, insges. 6 S., 2007
[IEEE International Symposium on Signal Processing and Information Technology; 7 (Cairo): 2007.12.15-18]

Hassan, Hassan M. ; Al-Hamadi, Ayoub K. ; Al-Saleem, Saleh M.
Towards evaluation of phonics method for teaching of reading using artificial neural networks (a cognitive modeling approach)
In: 7th IEEE International Symposium on Signal Processing and Information Technology. - Piscataway, NJ: IEEE Operations Center, insges. 8 S., 2007
[IEEE International Symposium on Signal Processing and Information Technology; 7 (Cairo): 2007.12.15-18]

Krell, Gerald; Al-Hamadi, Ayoub K. ; Michaelis, Bernd
Multi-error correction of image forming systems maintaining colors
In: 7th IEEE International Symposium on Signal Processing and Information Technology. - Piscataway, NJ: IEEE Operations Center, insges. 6 S., 2007
[IEEE International Symposium on Signal Processing and Information Technology; 7 (Cairo): 2007.12.15-18]

Panning, Axel; Al-Hamadi, Ayoub; Niese, Robert; Michaelis, Bernd
Facial expression recognition approach based on haar-like feature detection
In: OGRW-7. - Ettlingen, insges. 4 S., 2007
[Open German-Russian Workshop "Pattern Recognition and Image Understanding"; 7 (Ettlingen, Germany): 2007.08.20-23]

Teggatz, Alexander; Jöstingmeier, Andreas; Omar, Abbas
A versatile 3D field simulation of a GPR setup
In: CST European User Group Meeting. - CST, insges. 1 S., 2007
[CST European User Group Meeting; 3 (Lake Tegernsee, Germany): 2007.09.13-14]

Wendemuth, Andreas
Dynamics of temporal difference learning
In: Twentieth International Joint Conference on Artificial Intelligence, IJCAI-07. - IJCAI, insges. 6 S., 2007
[International Joint Conference on Artificial Intelligence; 19 (Hyderabad, India): 2007.01.06-12]

Dissertationen

Aassie Ali, Ali
Wireless channel parameters estimation for enhancement of the performance of orthogonal frequency division multiplexing (OFDM) systems. - Magdeburg, Univ., Fak. für Elektrotechnik und Informationstechnik, Diss., 2007; XX, 155 S.: graph. Darst.
[Zsfassung in engl. und dt. Sprache]

Andeli´c, Edin
Sparse nonlinear discriminants. - Magdeburg, Univ., Fak. für Elektrotechnik und Informationstechnik, Diss., 2007;
Link unter URL; XIV, 103 S.: graph. Darst.
[Auch als elektronisches Dokument vorhanden]

Bandyopadhyay, Ayan Kumar
Analysis of complex microwave structures using suitable computational electromagnetic techniques. - Magdeburg, Univ., Fak. für Elektrotechnik und Informationstechnik, Diss., 2007; Link unter URL; XI, 125 S.: graph. Darst.
[Auch als elektronisches Dokument vorhanden]

Schafföner, Martin
Estimation of nonparametric probability density functions with applications to automatic speech recognition.
- Magdeburg, Univ., Fak. für Elektrotechnik und Informationstechnik, Diss., 2007; Link unter URL; XXII, 116 S.: graph. Darst.
[Auch als elektronisches Dokument vorhanden]