ERDAL KORKMAZ

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SUMMARY

PhD in Electrical Engineering with a specialization in the field of applied electromagnetics and microwave engineering. A long professional history in blended academic research and industrial experience on modeling, analysis, design, fabrication, and measurement on RF/Microwave applications including all kind of antennas, passive microwave components, development of computational electromagnetic tools, electromagnetic propagation/scattering/ interaction problems, traveling wave tubes, micro-nano size antennas, GPR and electromagnetics on health related applications. Proficient with using commercial electromagnetic full-wave solvers and EDA software tools including CST Microwave Studio, SEMCAD and Keysight ADS. Experienced with RF measurement tools including vector network analyzers, signal generators, spectrum analyzers, power meters. Motivated, hardworking, dedicated, creative, detail-oriented, and take-charge engineer with proficient academic and communication skills.

EDUCATION

1998-2002	PhD, Electrical Engineering, September 2002 **Delft University of Technology**, Delft, The Netherlands Laboratory of Electromagnetic Research Group *Dissertation:* Electromagnetic Interaction Modeling on Radio Proximity Fuzes for Incoming Targets *Supervisor:* Prof.Dr. Peter M. van den Berg
1992-1997	Combined B.Sc. and M.Sc, Electrical Engineering, Graduated in December 1997 **Delft University of Technology**, Delft, The Netherlands Laboratory of Electronic Components, Technology and Materials *Thesis:* Low-Stress PECVD a-SiC Thin Films for IC-Compatible Microstructures *Supervisor:* Prof.Dr. Pasqualina M. Sarro

PROFESSIONAL EXPERIENCE

2020-present	Senior lecturer & researcher, Electrical Engineering, **The Hague University of Applied Sciences (THUAS) (since September 1, 2020)**
2017-2020	Senior lecturer, Electrical Engineering, **Rotterdam University of Applied Sciences (since October 1, 2017)**
2016-2017	Senior lecturer, Electrical Engineering, **Avans University of Applied Sciences (since November 1, 2016)**
2014-2016	Associate Professor, Electrical and Electronics Engineering, **Fatih University**
2005-2014	Assistant Professor, Electrical and Electronics Engineering, **Fatih University**
2011-2015	Deputy Director of Bio Nano Technology R&D Center (BINATAM), **Fatih University** Cofounder of **BINATAM R&D Center**
2009-2014	Research Scientist (part time), **TUBITAK BILGEM** Consultancy for Traveling Wave Tube Design and establishment of laboratory facilities
2015-2018	Participant member, **COST Action TD1301**

	Development of a European-based Collaborative Network to Accelerate Technological, Clinical and Commercialization Progress in the Area of Medical Microwave Imaging
2007-2012	**NATO RTO SCI 193 member**, Detection & Neutralization of Route Threats Participated many meetings in different NATO countries, conducted experiments in military bases and research centers, contributed published reports.
2005-2016	Fatih University IEEE Student Branch Counselor
2005-2016	Department Coordinator of Fatih University Erasmus/Socrates/Lifelong Learning Programme
2003-2004	Research Scientist, International Research Center for Telecommunications and Radar, **Delft University of Technology**, The Netherlands
2002-2003	Postdoctoral Research Associate, Laboratory of Telecommunication Technology and Electromagnetics, **Eindhoven University of Technology**, The Netherlands
1998-2002	Research Scientist, **TNO Defense Safety and Security**, The Netherlands
1996-1997	Research Assistant, **Delft Institute of Microelectronics and Submicron Technology** (DIMES), The Netherlands

FUNDED RESEARCH PROJECTS

2022-2026	Project leader from THUAS, NextGEM (Next Generation Integrated Sensing and Analytical System for Monitoring and Assessing Radiofrequency Electromagnetic Field Exposure and Health), Funded by the European Union (grant agreements no 101057527).
2012-2016	Researcher, Development of Magnetic Thin Film Fabrication Process Module for High Frequency Integrated Passive Devices Compatible with Integrated Circuit Fabrication Processes, TUBITAK grant.
2015-2016	Cofounder of the company MEDIWAVE for the development of a prototype of a microwave ablation probe and microwave source generator for liver cancer treatment, Ministry of Science, Industry and Technology grant.
2011-2014	Principal investigator, Modeling of Electromagnetic Interaction in Human Tissues and Local Temperature Increase for Cancer Treatment and Development of a Hyperthermia Applicator, TUBITAK grant.
2013-2014	Cofounder of the company MEDIEM for the development of a prototype of a microwave hyperthermia applicator for breast cancer treatment, Ministry of Science, Industry and Technology grant.
2011-2014	Principal investigator, Design and Implementation of Optical Antennas, Fatih University grant.
2011-2014	Consultant, founding of a Cathode and Microwave Vacuum Infrastructure, Turkish State Planning Organization grant.
2011-2012	Founder of RF/Microwave Research Laboratory at Fatih University, TUBITAK & Fatih University grant.
2009-2011	Cofounder of Bio Nano Technology R&D Laboratory (BINATAM) Infrastructure at Fatih University, Turkish State Planning Organization grant.
2005-2008	Principal investigator, Calculation of scattered fields from any moving object Fatih University grant.

2003-2004	Researcher, A Stepped Frequency Continuous Wave Ground Penetrating Radar, Delft University of Technology.
2002-2003	Researcher, Modeling of electromagnetic waves in periodic structures, Eindhoven University of Technology.
1998-2002	Researcher, Development of a computational software simulator to calculate the scattered electromagnetic fields by a moving PEC object, TNO Defense Safety and Security.
1996-1997	Researcher, Development of a low stress amorphous SiC layers for sensor applications, Delft Institute of Microelectronics and Submicron Technology.

TEACHING EXPERIENCE (COURSES TAUGHT SINCE 2005)

Undergraduate courses *Electrical and Electronics Engineering*	Telecommunications, Electromagnetic Field Theory, Electromagnetic Wave Theory, Microwave Engineering, Control Engineering, High-frequency Technology, Electronics, Digital Logic Design, Electronic Circuits and Devices, Digital Signal Processing, Semiconductor Devices, Solid State Electronics, Communication Techniques
Graduate courses *Electrical and Electronics Engineering*	Antenna Theory, Microwave Theory, Computational Electromagnetics
Supervision *Electrical and Electronics Engineering*	Supervision of students for undergraduate senior design projects
M.Sc. and PhD jury activities	I have been jurying in many M.Sc. and PhD defenses in different universities
Panelist	I have been panelist, referee for many project funds, R&D centers
Referee for promotion	I have been refereeing for the evaluation of a promotion request for Associate Professor application at King Saud University

SUPERVISED THESES

M.Sc. Theses:

Widesh Gahar	Thesis: A Lamb wave-based liquid sensor for biomedical applications, 2024, EWI, TU Delft
Johan Meyer	Thesis: A Love-mode Surface Acoustic Wave Based Sensor for Gravimetric Detection of Extracellular Vesicles in Liquid Samples, 2023, EWI, TU Delft
Maarten Zijlmans	Thesis: Design of a Surface Acoustic Wave Sensor for the Detection of Urinary Prostate Cancer Biomarkers, 2021, EWI, TU Delft
Mohammed Ahmed Nassor	*Thesis:* Development of Micro-size Detector Antennas at 30 THz, 2014, Fatih University
Umar Abdullahi Abdulhameed	*Thesis:* Design and Implementation of Reconfigurable Antenna Array for Beam Steering, 2014, Fatih University
Sadi Kokici	*Thesis:* Design and Analysis of Nanoscale Antennas at Optical Frequencies, 2012, Fatih University

Ashrf Aoad	*Thesis:* Design, Analysis, and Implementation of Narrow Beam Directive Small Size Antennas in 0.5-3 GHz Band, 2011, Fatih University
Alper Yildirim	*Thesis:* Design, Analysis, and Implementation of a MIMO Wide Beam Dual Polarization Antenna, 2011, Fatih University
Omer Isik	*Thesis:* Modeling of Electromagnetic Behavior and Local Temperature Increase in Human Tissues, 2009, Fatih University
Mehmet Emin Ozturk	*Thesis:* Effectiveness of Boundary Integral Equations Solution, Fatih University Techniques, 2009, Fatih University
Selahattin Nesil	*Thesis:* Electromagnetic hyperthermia applications for cancer treatment, Fatih University

PhD Theses:

Mehmet Emin Ozturk	*Thesis:* Development of a Wideband Direction-Finding System, 2016, Fatih University
Omer Isik	*Thesis:* Modeling of Electromagnetic Interaction in Human Tissues and Local Temperature Increase for Cancer Treatment and Development of a Hyperthermia Applicator, 2015, Fatih University

LANGUAGES

English	Fluent both written and spoken
Dutch	Fluent both written and spoken
Turkish	Mother tongue

AWARDS AND HONORS

2025	Pim Breebaart Research Award (THUAS)
2012	Scientific Contribution Award, Fatih University
2009	3rd Prize Region 8 IEEE student branch web design contest
2002	Postdoctoral fellowship, Eindhoven University of Technology
2002	Research fellowship, TNO Defense, Security, Safety, The Netherlands
1998-2002	PhD fellowship, TNO Defense, Security, Safety, The Netherlands

OTHER PROFESSIONAL ACTIVITIES

Reviewer for journals	IET Microwaves, Antennas & Propagation, International Journal of Antennas and Propagation, International Journal of Microwave Science and Technology, International Journal of Photoenergy, Progress in Electromagnetic Research (PIER), Turkish Journal of Electrical Engineering & Computer Sciences, International Journal of Fashion Design, Technology and Education
Reviewer, TPC for conferences	IEEE APS URSI, EuCAP, ANTEM AMEREM, PIERS URSI GAS, BioEM
Keynote speaker	MedICT 2015, Saidia, Morocco

Invited speaker	Convened sessions EuCAP 2015, 2016 and 2017, University of Illinois at Urbana-Champaign 2012, University of Chicago 2012
Memberships	IEEE, IEEE Antennas and Propagation, IEEE Microwave Theory and Techniques

COMPUTER SKILLS

Languages

Fortran, C++, Java, Python, Latex, etc.

Software

CST, SEMCAD X, Keysight ADS, Matlab, etc.

PATENTS

2016	Erdal Korkmaz and Omer Isik, “Spherical array breast hyperthermia applicator containing spiral antennas”, (PT2015-00751)

REFERENCES

References are available upon request.

SELECTED PUBLICATIONS

(REFEREED JOURNAL AND CONFERENCE PROCEEDINGS, BOOK, AND BOOK CHAPTERS)

- Gottmer, L., Korkmaz, E., Aerts, S., Bolte, J., Spirito, M. (2025), “Reduction of body effect RF EMF sensor with back reflector”, in Proceedings of the Joint Annual Meeting of the Bioelectromagnetics Society and the European Bio Electromagnetics Association (BioEM 2025)
- Land, D., Korkmaz, E., Aerts, S., Bolte, J. (2025), Low Cost SDRs for RF EMF Exposure Measurements, in Proceedings of the Joint Annual Meeting of the Bioelectromagnetics Society and the European Bio Electromagnetics Association (BioEM 2025)
- Korkmaz, E., Aerts, S., Coesoij, R., Bhatt, C. R., Velghe, M., Colussi, L., Land, D., Petroulakis, N., Spirito, M., & Bolte, J. (2024). A comprehensive review of 5G NR RF-EMF exposure assessment technologies: fundamentals, advancements, challenges, niches, and implications. Environmental Research, 260, 119524. https://doi.org/10.1016/j.envres.2024.119524.
- Korkmaz E., Aerts S., Coesoij R., Bhatt C.R., Colussi L., Land D., Spirito M., Bolte J.F.B, 2024. Exploring the Landscape of 5G NR EMF Exposure Sensing Technologies: A Narrative Review. O6, International Society for Exposure Scientists (ISES) Europe Workshop, 19-21 March, 2024, Berlin, Germany.
- Korkmaz E., Aerts S., Coesoij R., Bhatt C.R., Colussi L., Land D., Spirito M., Bolte J.F.B, 2024. A Narrative review on 5G NR EMF Exposure Sensing Technologies. 3rd Annual Meeting of BioEM, 16-21 June, 2024, Chania, Crete, Greece, PB108.
- W. Gahar, J. Meyer, P. French, A. Sisman and E. Korkmaz, "A Lamb wave based liquid sensor for biomedical applications," 2024 Smart Systems Integration Conference and Exhibition (SSI), Hamburg, Germany, 2024, pp. 1-4, doi: 10.1109/SSI63222.2024.10740544.
- J. Meyer, W. Gahar, A. Sisman, E. Korkmaz and P. French, "Output Variables of a Love-mode Surface Acoustic Wave Based Sensor for Liquid Sample Sensing," 2024 Smart Systems Integration Conference and Exhibition (SSI), Hamburg, Germany, 2024, pp. 1-5, doi: 10.1109/SSI63222.2024.10740520.
- Bolte J., Aerts S., Korkmaz E., Land D., Theinert F., Bhatt C., Pruppers M., Velghe M., Colussi L., Coesoij R., Gottmer L., Spirito M., NextGEM-team, 2024. EU NextGEM in the Netherlands: Monitoring and

Assessing 5G RF EMF exposure and health. BA Systems Workshop EMF, 27 March 2024, Aristo Zalencentrum, Utrecht, The Netherlands.

- K. Deprez, L. Colussi, E. Korkmaz, S. Aerts, D. G. Land, S. Littel, L. Verloock, P. A. David, W. Joseph, J. Bolte, Comparison of Low-Cost 5G electromagnetic field sensors, Sensors 23 (6) (2023) 3312. doi:10.3390/s23063312. URL https://doi.org/10.3390/s23063312.
- N. E. Petroulakis, M. Mattsson, P. Chatziadam, M. Simk´o, A. Gavrielides, A. M. Yiorkas, O. Zeni, M. R. Scarf`ı, E. Soudah, R. Ot´ın, F. Schettino, M. D. Migliore, A. Miaoudakis, G. Spanoudakis, J. H. Bolte, E. Korkmaz, V. Theodorou, E. Zarogianni, S. Lagorio, M. Bi oni, A. Schiavoni, M. Boldi, Y. Feldman, I. Bilik, A. Laromaine, M. Gich, M. Spirito, M. Ledent, S. Segers, F. S. Vargas, L. Colussi, M. Pruppers, D. Baaken, A. Bogdanova, NEXTGEM: Next-Generation Integrated sensing and Analytical system for monitoring and assessing radiofrequency electromagnetic field exposure and health, International Journal of Environmental Research and Public Health 20 (12) (2023) 6085. doi:10.3390/ijerph20126085.URL https://doi.org/10.3390/ijerph20126085.
- Ö. Işık ve E. Korkmaz, "Meme Mikrodalgası Hipertermi Aplikatörü İçin Geliştirilen Doku Taklidi Jel Karakterizasyonu", Afyon Kocatepe Üniversitesi Fen Ve Mühendislik Bilimleri Dergisi, c. 23, sayı. 5, ss. 1190-1196, Eki. 2023, doi:10.35414/akufemubid.1267788
- Şişman, A., French, P., Ogan, A., Korkmaz, E., Husseini, A.A., Yazdani, A.M. and Meyer, J. (2023). Acoustic Biosensors. In Acoustic Technologies in Biology and Medicine (eds A. Ozcelik, R. Becker and T.J. Huang). https://doi.org/10.1002/9783527841325.ch10
- E. Korkmaz, S. Littel, M. Spirito, J. Bolte, A low-cost emf field sensor for 5g emf exposure measurements, in: in Proceedings of the Joint Annual Meeting of the Bioelectromagnetics Society and the European Bio Electromagnetics Association (BioEM 2023), 2023.
- S. Littel, E. Korkmaz, J. Bolte, M. Spirito, A Testbench Driven FR2 EMF Sensor Development and Validation, in: in Proceedings of the Joint Annual Meeting of the Bioelectromagnetics Society and the European Bio Electromagnetics Association (BioEM 2023), 2023.
- K. Deprez, L. Colussi, E. Korkmaz, S. Aerts, D. Land, S. Littel, L. Verlook, D. Plets, W. Joseph, J. Bolte, Evaluation of Low-cost 5G Electromagnetic Field Sensors: calibration and comparison, in: in Proceedings of the Joint Annual Meeting of the Bioelectromagnetics Society and the European Bio Electromagnetics Association (BioEM 2023), 2023.
- N. E. Petroulakis, M. Mattsson, P. Chatziadam, M. Simk´o, A. Gavrielides, A. M. Yiorkas, O. Zeni, M. R. Scarf`ı, E. Soudah, R. Ot´ın, F. Schettino, M. D. Migliore, A. Miaoudakis, G. Spanoudakis, J. H. Bolte, E. Korkmaz, V. Theodorou, E. Zarogianni, S. Lagorio, M. Bi oni, A. Schiavoni, M. Boldi, Y. Feldman, I. Bilik, A. Laromaine, M. Gich, M. Spirito, M. Ledent, S. Segers, F. S. Vargas, L. Colussi, M. Pruppers, D. Baaken, A. Bogdanova, Methodological approaches in NextGEM - Next Generation Integrated Sensing and Analytical System for Monitoring and Assessing Radiofrequency Electromagnetic Field Exposure and Health, in: in Proceedings of the Joint Annual Meeting of the Bioelectromagnetics Society and the European Bio Electromagnetics Association (BioEM 2023), 2023.
- E. Korkmaz, S. Littel, S. Aerts, M. Spirito, J. Bolte, A Low-cost Sensor Node for RF-EMF Exposure in 5G Networks Based on Requirements Identified in Horizon Europe NextGEM Project, in Proceedings of ISES 2023.
- Erdal Korkmaz, Stephan Little, John Bolte, “Development of a low-cost sensor network for measurement of 5G signals in the Netherlands”, BioEM 2022, Nagoya, Japan.
- M. Irfan ul haq Malik, Hamza Kaouach, Erdal Korkmaz, “Linearly polarized Transmit-Arrays for mmWave Applications; Comparative Study and Perspective”, EuCAP 2016, Davos, Switzerland, 5 pages.
- Domenica A. M. Iero, Lorenzo Crocco, Tommaso Isernia, Erdal Korkmaz, “Optimal focused electromagnetic hyperthermia treatment of breast cancer”, EuCAP 2016, Davos, Switzerland, 2 pages.
- Mehmet E. Ozturk, Erdal Korkmaz, Murat Kebeli, "A Rounded-Edge Bow-Tie Antenna for Wideband Mobile Direction-Finding System", IET Microwaves, Antennas & Propagation, Vol. 9, No. 15, pp. 1809-1815, December 2015.
- Erdal Korkmaz (Keynote Speaker), “Non-invasive RF Hyperthermia for Cancer Treatment”, Mediterranean Conference on Information & Communication Technologies '2015, Saidia, pp. 1-5, Morocco, May 2015.

- Erdal Korkmaz, Omer Isık, Huseyin Sagkol, “A Directive Antenna Array Applicator for Focused Electromagnetic Hyperthermia Treatment of Breast Cancer”, Proceedings of the 9th European Conference on Antennas and Propagation (EuCAP), pp. 1-4, Lisbon/Portugal, April 2015.
- Ashfr Aoad, Zafer Aydin, Erdal Korkmaz, "Design of a Tri band 5-Fingers Shaped Microstrip Patch Antenna with an Adjustable Resistor", Nov. 2014, Antenna Measurements & Applications (CAMA), 2014 IEEE Conference on, 2014, 1,pp. 1-4.
- M. A. Nassor, E. Korkmaz, K. Yegin, "Micro Size Detector Antennas At 30 THz", URSI GASS 2014, Beijing / China, Sep. 2014, Proceedings of 31st URSI General Assembly and Scientific Symposium, 2014, 1,pp. 1-3.
- E. Korkmaz, O. Isik, M. A. Nassor, “A Compact Microstrip Spiral Antenna Embedded in Water Bolus for Hyperthermia Applications”, International Journal of Antennas and Propagation, Vol. 2013, No. 954986, Oct. 2013, pp. 1-6.
- Fuat Bayrakceken,Korkut Yegin, Erdal Korkmaz, Yakup Bakis, and Bayram Unal, "Optical Energy Transfer Mechanisms: From Naphthalene to Biacetyl in Liquids and from Pyrazine to Biacetyl", International Journal of Photoenergy, Vol. 2012, No. 239027, Nov. 2012, pp. 1-4
- Fuat Bayrakceken,Korkut Yegin, Erdal Korkmaz, Yakup Bakis, and Bayram Unal, "Absorption and Fluorescence Spectroscopy of 1,2 : 3,4-Dibenzanthracene", International Journal of Photoenergy, Vol. 2012, No. 563090, Nov. 2012, pp. 1-4
- S. Kokici, E. Korkmaz, “Design and Optimization of Bow-tie Optical Antennas”, Proceedings of IEEE APS URSI 2012, Chicago, 2012.
- E. Korkmaz, M. A. Nassor, S. Kara, O. Isik, B. Turetken, “Design of Compact Microstrip Antennas Embedded in Water Bolus for Hyperthermia Applications”, Proceedings of IEEE APS URSI 2012, Chicago, 2012.
- O. Isik, E. Korkmaz, S. Kara, M. A. Nassor, B. Turetken, “Development of a Hyperthermia Applicator with Compact Microstrip Antennas”, Proceedings of IEEE APS URSI 2012, Chicago, 2012.
- Huseyin Altun, Erdal Korkmaz, Bahattin Turetken, "Simulation of a Conformal Reconfigurable Fractal Tree Antenna with Adaptive Multi Beam and Frequency Characteristics", 30th Progress In Electromagnetics Research Symposium Suzhou, Suzhou CHINA, Sep. 2011 Progress In Electromagnetics Research Symposium Proceedings, PIERS_2011, Suzhou,pp. 619-623.
- E. Korkmaz, I. Araz, A. Dursun, K. Yeğin, "Design Considerations of a 10 GHz Helix TWT", The XXX General Assembly and Scientific Symposium of the International Union of Radio Science, İstanbul, Aug. 2011 Proceedings of The XXX General Assembly and Scientific Symposium of the International Union of Radio Science, C11, 6,pp. C11.6.
- O. Işık, E. Korkmaz, "Antenna Arrangement Considerations for Microwave Hyperthermia Applications", The XXX General Assembly and Scientific Symposium of the International Union of Radio Science, İstanbul, Aug. 2011 Proceedings of The XXX General Assembly and Scientific Symposium of the International Union of Radio Science, KP1, 10,pp. KP1.10.
- H. Altun, E. Korkmaz, "Reconfigurable Fractal Tree Antenna for Multiband Applications", The XXX General Assembly and Scientific Symposium of the International Union of Radio Science, İstanbul, Aug. 2011 Proceedings of The XXX General Assembly and Scientific Symposium of the International Union of Radio Science, C12, 8,pp. C12.8.
- A. Aoad, E. Korkmaz, "Simulation of a Rectangular Spiral Shaped Microstrip Patch Antenna", The XXX General Assembly and Scientific Symposium of the International Union of Radio Science, İstanbul, Aug. 2011 Proceedings of The XXX General Assembly and Scientific Symposium of the International Union of Radio Science, AB2, 8,pp. AB2.8.
- E. Korkmaz, I. Araz, A. Dursun, K. Yeğin, "Design Considerations of a 10 GHz Helix TWT", The XXX General Assembly and Scientific Symposium of the International Union of Radio Science, İstanbul, Aug. 2011 Proceedings of The XXX General Assembly and Scientific Symposium of the International Union of Radio Science, C11, 6,pp. C11.6.
- Halil Alptuğ DALGIÇ, İsa ARAZ, Erdal KORKMAZ, "Üç Boyutlu Oyuk-Yarık Kovuklu Magnetron Modellemesi", URSI Ulusal Bilimsel Kongresi 2010, S, Aug. 2010 URSI Ulusal Bilimsel Kongresi 2010, 2010, 1,pp. 1.
- Erdal Korkmaz, İsa Araz, Halil Dalgıç, "Üç Boyutlu Helis TWT Modellemesi", URSI Ulusal Bilimsel Kongresi 2010, S, Aug. 2010 URSI Ulusal Bilimsel Kongresi 2010, 2010, 1,pp. 1.

- M.E. Ozturk, E. Korkmaz, "Efficiency of Boundary Integral Equation Techniques for Internal Resonance Problem", International Symposium on Antenna Technology and Applied Electromagnetics [, Ottawa / Kanada, Jul. 2010 Proceedings of the 14th International Symposium on Antenna Technology and Applied Electromagnetics [ANTEM] and the American Electromagnetics Conference [AMEREM], , 14, 255,pp. 255.
- E. Korkmaz, M.E. Ozturk, "Comparison of Combined-Field Integral Equation and Constrained Conjugate Gradient Method for Internal Resonance Problem", IEEE AP-S International Symposium on Antennas and Propagation & USNC/URSI National Radio Science Mee, Toronto / Kanada, Jul. 2010 Proceedings of the 2010 IEEE AP-S International Symposium on Antennas and Propagation & USNC/URSI National Radio Science Meeting, 2010, 525,pp. 11.
- Erdal Korkmaz, Omer Isik, "Electromagnetic Hyperthermia Modeling in Human Intra-Abdominal Region", International Symposium on Antenna Technology and Applied Electromagnetics [ANTEM] and the Amer, Ottawa / Kanada, Jul. 2010 Proceedings of the 14th International Symposium on Antenna Technology and Applied Electromagnetics [ANTEM] and the American Electromagnetics Conference [AMEREM], 14, 237,pp. 237.
- O. Isik, E. Korkmaz, "Electromagnetic Modeling of Thermal Fields Induced in Human Femur Tissue", IEEE AP-S International Symposium on Antennas and Propagation & USNC/URSI Na, Toronto / Kanada, Jul. 2010 Proceedings of the 2010 IEEE AP-S International Symposium on Antennas and Propagation & USNC/URSI National Radio Science Meeting, 2010, 111,pp. 10.
- Erdal Korkmaz, "Regularization of Boundary Integral Equations in a Easy-to-Implement and Efficient Method", PIERS 2009 ın Moscow, Moscow/Russia, Aug. 2009 Proceedings of Progress in Electromagnetic Research , 1, 1,pp. 1.
- Ömer Işık, Erdal Korkmaz, "İnsan Dokularında Elektromanyetik Etkileşim ve Lokal Isı Artışı Modellemesi", 14.Biyomedikal Mühendisliği Ulusal Toplantısı, İzmir/Türkiye, May. 2009 Proceedings of BIYOMUT 2009, 1, 1,pp. 1.
- E. Korkmaz, "A Different Aproach to the Singularity Problem of Boundary Integral Equations", Mathematical Methods in Electromagnetic Theory, Ukrayna, Jul. 2008 Proceedings of 12th International Conferense on Mathematical Methods in Electromagnetic Theory, 1, 1,pp. 11-11.
- Selahattin Nesil, Erdal Korkmaz , "Kanser tedavisinde hipertermi uygulaması", URSI 2006 ulusal kongresi, Ankara/Türkiye, Sep. 2006.
- E. Korkmaz, "Calculation of EFIE by means of constrained conjugate gradient method", IV. International workshop on Electromagnetic Wave Scattering, Gebze/Turkey, Sep. 2006.
- E. Korkmaz, P. van Genderen, "Calibration Procedures for Antenna Footprint Measurement of Stepped Frequency CW Radar", Delft / The Netherlands, Jun. 2004 Proceedings of the tenth international conference on Ground Penetrating Radar.
- E. Korkmaz, P. van Genderen, "Antenna Footprint Measurements of Stepped Frequency CW Radar on the Air/Ground Interface", Loughborough, UK, May. 2004 Proceedings of the international IEE conference on Antenna measurements and SAR.
- A.G. Tijhuis, M.C. van Beurden, E. Korkmaz, "Modeling Electromagnetic Fields in Large, Finite Structures Using Iterative Techniques and the Equiv", Torino, Italy, Sep. 2003 Proceedings of the International Conference on Electromagnetics in Advanced Applications.
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- A.G. Tijhuis, M. C. van Beurden, E. Korkmaz, "Embedding Approach to Modeling the Electromagnetic Behavior of Simple Objects in a Complex Environme", Workshop/Mini-Symposium on Electromagnetics in a Complex World: Challenges and Perspectives, ed. I.M, Benevento, Italy, Feb. 2003 pp. 32.
- P.M. van den Berg, E. Korkmaz and A. Abubakar, "A constrained conjugate gradient method for solving the magnetic field boundary integral equation", IEEE Transactions on Antenna and Propagations, Vol. 51, No. 6, Jun. 2003, pp. 1168-1176.
- P. M. Sarro, C. R. deBoer, E. Korkmaz, and J. M. W. Laros, "Low-stress PECVD SiC thin films for IC-compatible microstructures", Sensors and Actuators A: Physical, Vol. 67, No. 1-3, May. 1998, pp. 175-180.

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