

# SENER UYSAL

## Research Areas

Microwave Integrated Circuits (MICs), Antennas, RFID, RFIC, EMC, EMI,  
Wireless Communications, Wireless Sensors, Security, Solar Energy, Wearable  
Electronics and Biomedical Applications of Microwaves

# CV

# September 16, 2015

## Short Biography

*Prof. Uysal received his Ph.D. degree in microwaves from King's College London, University of London, London, U.K., in 1990. He was appointed as a Post-Doctoral Research Fellow in the same university, where he worked on microwave and millimeter-wave techniques involving passive circuits and microstrip antennas. He is the inventor of bandpass type microstrip directional couplers and filters. In 1992, he joined the Electrical Engineering Department, National University of Singapore (NUS), Singapore, as an Assistant Professor and, in 1995, was promoted to an Associate Professor. During his tenure at NUS, he continued his research work on MICs and wideband antennas. He was also actively collaborated with the Science Faculty on works involving High Temperature Superconductors. In February 2000 he joined EMU as an Associated Professor. In March 2004, he was appointed as Director of Advanced Technologies Research and Development Institute and promoted to full Professorship in April 2004. He has published over 65 technical papers in international symposia and journals, and has authored Nonuniform Line Microstrip Directional Couplers and Filters (Norwood, MA: Artech House, 1993). He worked on several research projects as a principal investigator and core member. He has supervised over 20 MS and PhD students, and over 200 Final Year Project students.*

*His current research interests are mainly in the areas of security, solar power, wireless communications, biomedical applications of MICs, personalized health systems, multi-beam antennas and wireless sensor networks.*

*His works have received over 750 citations to date.*

*Prof. Uysal was appointed as an expert evaluator for EU Commission FP7-ICT-SEC in June 2007, PEOPLE Marie Curie Actions IEF, IOF and IIF from Oct.2009 – 2014 and H2020 in Oct.2014- to date.*

**EASTERN MEDITERRANEAN UNIVERSITY  
ELECTRICAL & ELECTRONIC ENGINEERING DEPARTMENT**

**PERSONAL INFORMATION**

Name & Title           **ŞENER UYSAL, Professor**  
Address                 **Eastern Mediterranean University  
Electrical & Electronics Engineering Dept.  
Famagusta, via Mersin 10 Turkey**  
Telephone             **+90 392 630 2772**  
Mobile                 **0533 863 8989**  
Fax                     **+90 392 6301657**  
E-mail & URL         **[Sener.uysal@emu.edu.tr](mailto:Sener.uysal@emu.edu.tr)  
<http://faraday.ee.emu.edu.tr/suysal/>**

Nationality            Cyprus  
Date of birth           25/08/1959

**WORK EXPERIENCE**

- Dates (from – to)           April 04 – Present
- Name and address of employer   Eastern Mediterranean University  
Electrical & Electronics Engineering Dept.  
Famagusta, Mersin 10 Turkey
- Type of business or sector       Education
- Occupation or position held     Professor
- Main activities and responsibilities
  - Teaching several undergraduate and graduate courses
  - Supervising undergraduate final year projects and graduate M. Sc. and PhD. Theses.
  
- Dates (from – to)           March 04 – Sept. 10
- Name and address of employer   Eastern Mediterranean University  
Electrical & Electronics Engineering Dpt.  
Famagusta Mersin 10 Turkey
- Type of business or sector       Education
- Occupation or position held     Director of Advanced Technologies Research & Development Institute
- Main activities and responsibilities
  
- Dates (from – to)           February 00 – March 04
- Name and address of employer   Eastern Mediterranean University  
Electrical & Electronics Engineering Dpt.  
Famagusta Mersin 10 Turkey
- Type of business or sector       Education
- Occupation or position held     Associate Professor
- Main activities and responsibilities
  - Teaching several undergraduate and graduate courses
  - Supervising undergraduate final year projects and graduate M. Sc. and PhD. Theses.
  
- Dates (from – to)           July 95 – January 2000
- Name and address of employer   National University of Singapore
- Type of business or sector       Education

- Occupation or position held Associate Professor
  - Main activities and responsibilities
    - Teaching several undergraduate and graduate courses
    - Supervising undergraduate final year projects and graduate MEng. and PhD. Theses.
    - Participating to thesis and oral examination committees.
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- Dates (from – to) September 92 – June 95
  - Name and address of employer National University of Singapore
  - Type of business or sector Education
  - Occupation or position held Assistant Professor
  - Main activities and responsibilities
    - Teaching several undergraduate and graduate courses
    - Supervising undergraduate final year projects and graduate MEng. and PhD. Theses.
    - Participating to thesis and oral examination committees.
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- Dates (from – to) August 90 – October 91
  - Name and address of employer Derwent Publications Ltd. London, UK
  - Type of business or sector Publications
  - Occupation or position held Freelance Patents Abstractor
  - Main activities and responsibilities
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- Dates (from – to) August 89 – August 92
  - Name and address of employer King's College London, University of London
  - Type of business or sector Education
  - Occupation or position held Postdoctoral Research Fellow
  - Main activities and responsibilities
    - Worked on projects in wideband microwave and millimeter wave techniques
    - Demonstrated the first ultrawideband microstrip quadrature directional coupler.
    - Invented the bandpass type coupler with up to almost 0 dB coupling.
    - Developed the first codirectional nonuniform 0 dB coupler. (funded by MoD UK)
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- Dates (from – to) February 90 – March 90
  - Name and address of employer King's College London, University of London
  - Type of business or sector Education
  - Occupation or position held
  - Main activities and responsibilities
    - M. Sc. Teaching on Microwaves
- 
- Dates (from – to) January 89 – August 89
  - Name and address of employer King's College London, University of London
  - Type of business or sector Education
  - Occupation or position held
  - Main activities and responsibilities
    - Simulation of Cross Field Devices (Magnetrons) using MAGIC PIC Code (Funded by USAF USA)
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- Dates (from – to) January 86 – January 89
  - Name and address of employer King's College London, University of London
  - Type of business or sector Education
  - Occupation or position held
  - Main activities and responsibilities
    - Supervising lab. Experiments on High Frequency Engineering and EM Waves.
    - Marking papers.
- 
- Dates (from – to) October 85 – January 86
  - Name and address of employer Eastern Mediterranean University  
Famagusta Mersin 10 Turkey

- Type of business or sector Education
- Occupation or position held Assistant Lecturer
- Main activities and responsibilities

## EDUCATION AND TRAINING

- Dates (from – to) January 86 – January 90
- Name and type of organization providing education and training King's College London, University of London
- Principal subjects/occupational skills covered
- Title of qualification awarded PhD. In Microwave Engineering
  
- Dates (from – to) September 84 – September 85
- Name and type of organization providing education and training King's College London, University of London
- Principal subjects/occupational skills covered
- Title of qualification awarded M. Sc. in Electronics
  
- Dates (from – to) 1979 – 1984
- Name and type of organization providing education and training Eastern Mediterranean University  
Famagusta Mersin 10 Turkey
- Principal subjects/occupational skills covered
- Title of qualification awarded B. Eng. In Electrical Engineering with High Honors, CGPA: 3.68
  
- Dates (from – to) 1971 – 1978
- Name and type of organization providing education and training Turk Maarif College
- Principal subjects/occupational skills covered
- Title of qualification awarded Diploma

**PERSONAL SKILLS  
AND COMPETENCES**

*Acquired in the course of life and career  
but not necessarily covered by formal  
certificates and diplomas.*

MOTHER TONGUE            **TURKISH**

OTHER LANGUAGES

- Reading skills            **English**
- Writing skills            **Excellent**
- Verbal skills            **Excellent**

**ORGANIZATIONAL SKILLS  
AND COMPETENCES**

*Coordination and administration of  
people, projects and budgets; at work, in  
voluntary work (for example culture and  
sports) and at home, etc.*

- **Eastern Mediterranean University**
  - *Administrative Duties*
    - Laboratory Committee – Chairman
    - Assessment and Evaluation Committee – Member
    - Final Year Projects Committee – Member
    - ABET Committee – Member
    - Resources Committee – Member
    - Acting Dean – May 2004 – August 2005
    - Director ATRDI – March 2004 – Sept. 2010
- **National University of Singapore**
  - *Administrative Duties*
    - Library Committee – Chairman
    - SAR Technical Committee – Member
    - Publicity & Public relations Committee – Member
    - Safety & hazardous Materials Committee – Member
    - Faculty Safety & Hazardous Materials Committee – Member
    - Industrial Training Committee – Member
- **Ministry of Defense (MINDEF)**
  - *10 projects ranging from S\$5000 to S\$15000 – funded by Singapore*
  - *Multi-Disciplinary Research (MDR) with the Science Faculty on High Temperature Superconductor circuits – funded by Defense Science Organization (DSO) \$200,000*
- **Research projects funded by Faculty Academic Research please see TABLE 1.**

RESEARCH & DEVELOPMENT  
ACTIVITIES

- **Eastern Mediterranean University**
  1. Microwave Integrated Circuits (MICs)
    - Microwave Control Circuits
      - Microstrip couplers, filters and antennas
      - Multilayer microstrip circuits
  2. High-speed Interconnects for Gigabit Circuits
    - CPW, microstrip, CB-CPW, multilayer microstrip
  3. Antennas
    - Wireless Internet
    - Radio Frequency Identification (RFID)
    - Non-metallic
  4. Solar Energy
  5. Wireless Sensor Networks
- **National University of Singapore**
- **Established the first MIC Lab in NUS – used by postgraduate and final year project students**
  1. Microwave Integrated Circuits (MICs)
    - Phased Array Transmit/receive Module
    - Microwave Control Circuits
      - Microstrip couplers, filters and antennas
      - Multilayer microstrip circuits
      - Conductor-backed CPW filters and couplers and interconnects
  2. Superconductive MICs (Joint with Physics Dpt.)
    - Filter Banks
    - Narrowband filters
  3. High-speed Interconnects for Gigabit Circuits
    - CPW, microstrip, CB-CPW, multilayer microstrip.

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RECOGNITION FOR RESEARCH

- **Expert Evaluator for EU Commission in FP7 – ICT-SEC - June 2007**
- **Expert Evaluator for EU Commission in FP7 – PEOPLE – IEF, IOF, IIF – Oct. 2009, Oct. 2010, Oct. 2011, Oct. 2012, Oct. 2013**
- **Reviewer**
  1. IEE Proceedings Part H: Microwaves, Antennas and Propagation.
  2. IEE Electronics Letters.
  3. IEEE Microwaves and Guided waves Letters.
  4. IEEE Circuits and Systems.
  5. PIER Journals.
  6. International Conferences
- **External Assessor**
  1. Master's Degree, 1997-99, Chinese University of Hong Kong.
  2. Doctoral Thesis, 1999-2000, University of Pretoria, South Africa.
  3. Master's Degree, since 2002, Swinburne University (Sarawak Campus), Malaysia.
- **Conference Organization**
  1. Publications Chairman for the 1996 International Conference on Communications (ICCS '96)
  2. Publicity Chairman for the Asia Pacific Microwave Conference '99 (APMC '99)
- **Industrial Consultancy**
  - May 1993 Microwave Integrated Circuits (MICs) – Singapore

OTHER SKILLS  
AND COMPETENCES  
*Competences not mentioned above.*

READING (FOLLOWING) MAJOR ACTIVITIES IN SCIENCE AND TECHNOLOGY IN PRINTED MEDIA AND INTERNET MAINLY IN THE AREAS OF WIRELESS COMMUNICATIONS, BIOMEDICAL APPLICATIONS, SENSOR NETWORKS, AND SOLAR ENERGY.

TABLE 1. Research Projects undertaken by A/Prof Sener Uysal during his appointment with NUS (Sept 1992 – Dec. 1999)

Project No.	Project Title	Actual Start Date	Revised End Date	Principal Investigator	Internal Collaborators Staff Name & Dept	External Collaborator Name & Company
RP3930620	Phase array transmit/receive module	September-93	June-97	Uysal, Sener	Kooi Pang Shyan, Leong Mook Seng & Yeo Tat Soon	
RP3940655	Microwave control circuits (MCCS)	February-95	March-99	Uysal, Sener	Leong Mook Seng, Kooi Pang Shyan & Yeo Tat Soon	
RP3960603	Novel planar components and sub-systems for microwave integrated circuit (MIC) applications	January-96	December-99	Yeo Swee Ping	Kooi Pang Shyan, Leong Mook Seng, Yeo Tat Soon, Uysal Sener & Eccleston, Kimberley Wallace	Prof R Jansen (Germany), Prof T. Yoneyama (Japan), Prof Bialkowski (Australia)
RP3972661	Design of conductor-backed coplanar waveguide components	February-98	February-00	Uysal, Sener	Leong Mook Seng	
RP3950697	Study of wireless indoor communication channels	May-96	May-00	Farhang-Boroujeni, Behrouz	Uysal Sener, Ng Chun Sum & Chua Kee Chaing	

## PROFESSIONAL MEMBERSHIPS

IEEE  
 IEEE TRANSACTIONS ON ANTENNAS AND PROPAGATION  
 IEEE TRANSACTIONS ON TERAHERTZ SCIENCE AND TECHNOLOGY  
 IEEE MICROWAVES AND WIRELESS COMPONENTS LETTERS  
 IEEE TRANSACTIONS ON MICROWAVE THEORY AND TECHNIQUES  
 IEEE ANTENNAS AND PROPAGATION SOCIETY MEMBERSHIP  
 (INCL AP MAG, ONLINE T-AP & AWP LTRS, & DL)  
 IEEE MICROWAVE THEORY AND TECHNIQUES SOCIETY MEMBERSHIP  
 (INCL MW MAG, ONLINE J-LT, RFIC & RFID VIRTUAL JRNLs, & DL)

## List of Publications

### BOOK

1. Uysal, S, *Nonuniform Line Microstrip Directional Couplers and Filters*. Norwood (MA): Artech House, 228 pp., United States, October 1993.

### REFEREED JOURNAL PAPERS

1. Uysal, S and A H Aghvami, "An improved wideband -3 dB nonuniform directional coupler," *Electronics Letters*, Vol.25, no.8, pp.541-542, United Kingdom, April 1989.
2. Uysal, S and A H Aghvami, "Synthesis design and construction of ultrawideband nonuniform quadrature directional couplers in inhomogeneous media," *IEEE Transactions on Microwave Theory and Techniques*, Vol.37, no.6, pp.969-976, United States, June 1989.
3. Uysal, S and J Watkins, "Novel microstrip multi-function directional couplers and filters for microwave and millimeter wave applications," *IEEE Transactions on Microwave Theory and Techniques*, Vol.39, no.6, pp.977-985, United States, June 1991.
4. Moazzam, M R, S Uysal and A H Aghvami, "Improved performance parallel coupled filters," *Microwave Journal*, no.11, pp.127-135, United States, November 1991.
5. Uysal, S, C W Turner and J Watkins, "Nonuniform transmission line co-directional couplers for hybrid MIMIC and superconductive applications," *IEEE Transactions on Microwave Theory and Techniques*, Vol.42, no.3, pp.407-414, United States, March 1994.
6. Uysal, S, K S Ang and P S Kooi, "Coplanar waveguide active bandpass filter," *Electronics Letters*, Vol.30, no.19, pp.1605-1606, United Kingdom, September 1994.
7. Uysal, S, "Microstrip loop directional filter," *Electronics Letters*, Vol.33, no.5, pp.375-376, United Kingdom, February, 1997.

8. Uysal, S, "Coplanar waveguide edge-coupled bandpass filters with finite ground planes," *Electronics Letters*, Vol.33, no.6, pp.475-476, United Kingdom, February 1997.
9. Krishnan, S, S Uysal and K W Eccleston, "CPW bandpass filters using end-coupled quarter-wavelength resonators," *Microwave and Optical Technology Letters*, Vol.15, no.1, pp.29-33, United States, May 1997.
10. Krishnan, S, S Uysal and K W Eccleston, "Build high performance CPW filters using bond wires," *Microwaves and RF*, Vol.36, no.6, pp.89-92, United States, June 1997.
11. Koh, L C and S Uysal, "Coplanar waveguide microwave loop filter," *Microwave and Optical Technology Letters*, Vol.16, no.1, pp.4-7, United States, September 1997.
12. Loi, K W, S Uysal and M S Leong, "Design of a wideband microstrip bowtie patch antenna," *IEE Proceedings. H, Microwaves, Antennas and Propagation*, Vol.145, no.2, pp.137-140, United Kingdom, April 1998.
13. Bin, Z and S Uysal, "An accurate design technique for microstrip edge-end-coupled filters," *Microwave and Optical Technology Letters*, Vol.18, no.4, pp. 278-280, United States, July 1998.
14. Uysal, S, M S Leong and C H Ng, "Bowtie patch antennas and simple arrays for wireless indoor communications," *IEEE Transactions on Microwave Theory and Techniques*, Vol.47, No.6, pp. 738-745, United States, May 1999.
15. Tan, K W and S Uysal, "Analysis and design of conductor-backed asymmetric coplanar waveguide lines using conformal mapping techniques and their application to end-coupled filters," *IEICE Transactions on Electronics*, Vol.E82-C, No.7, pp. 1098-1103, Japan, July 1999.
16. Lim, C and S Uysal, "Design of a broadband directional coupler using microstrip-like multilayer technology," *Microwave and Optical Technology Letters*, 23, no.4, pp.273-274, 1999.
17. Uysal S and L Lee, "Ku-band double-sided suspended substrate microstrip coupled-line bandpass filter," *IEE Electronics Letters*, 35, no.13, pp.1088-1089, 1999.
18. Wu, C H and S Uysal, "A new systematic and efficient method of analysis for conductor-backed coplanar waveguide directional couplers," *IEEE Transactions on Microwave Theory and Techniques*, Vol.47, No.7, pp. 1127-1131, United States, August 1999.
19. Lee, W F, X S Rao, C K Ong and S Uysal, "Performance evaluation of a microwave superconductor filter in a dc magnetic field," *Microwave and Optical Technology Letters*, Vol.22, No.3, pp. 192-194, United States, Aug. 1999.
20. Uysal, S, "Four-element antenna-array beam-forming network," *Microwave and Optical Technology Letters*, Vol.23, no.4, pp.207-209, United States, Nov. 1999.
21. Mehdi Taassori, Meysam Taassori, Sadegh Niroomand, Bela Vizvari, Sener Uysal, Abdollah Hadi Vencheh, "OPAIC: An Optimization Technique to Improve Energy Consumption and Performance in Application Specific Network on Chips", *MEASUREMENT*, Vol.74, Issue:99999, pp.208-220, Oct. 2015.

#### REFEREED CONFERENCE PAPERS

1. Uysal, S and A H Aghvami, "Synthesis and design of wideband symmetrical nonuniform directional couplers for MIC applications," In *IEEE MTT-S International Microwave Symposium*, compiled by IEEE, pp. 587-590. New York, United States: IEEE, May 1988.
2. Uysal, S, A H Aghvami and S A Mohamed, "Microstrip channelling filters using -3 dB directional couplers," In *IEE Colloquium*, compiled by IEE, pp. 12/1-12/4. IEE Colloquium. London, United Kingdom: IEE, May 1989.
3. Uysal, S, A H Aghvami and S A Mohamed, "Microstrip quadruplexer using -3 dB hybrids," In *19<sup>th</sup> European Microwave Conference Proceedings*, pp. 905-910. London, United Kingdom: EuMC'89-IEE, September 1989.
4. Uysal, S and J Watkins, "Novel microstrip low-pass/high-pass directional couplers/filters," In *IEEE Southeastcon '90*. pp. 889-893, New Orleans, United States: IEEE, April 1990.
5. Watkins, J and S Uysal, "Novel microstrip directional band-pass/band-stop couplers and filters," In *IEEE MTT-S International Microwave Symposium*, pp. 411-414. Dallas, United States: IEEE, May 1990.
6. Watkins, J and S Uysal, "Experimental investigation of broadband microstrip antennas," In *RADAR-90, IEEE International Radar Conference*, pp. 496-500. Washington DC, United States: IEEE, May 1990.
7. Uysal, S and J Watkins, "Microstrip matched filters for space applications," In *ESA/ESTEC Workshop*. Noordwijk, The Netherlands: ESA/ESTEC, June 1990.
8. Uysal, S and J Watkins, "0 dB band-pass coupler," In *20<sup>th</sup> European Microwave Conference Proceedings*, pp. 1163-1168. Budapest, Hungary: EuMC'90-IEE, September 1990.
9. Uysal, S and J Watkins, "Microstrip matched filters for transmit/receive MIC antenna applications," In *IEEE AP-S International Symposium*, pp. 226-229. London, Ontario, Canada: IEEE, June 1991.
10. Uysal, S and J Watkins, "An alternative analysis for uniform coupled lines using nonuniform coupled lines synthesis and their realization as backward-wave and forward-wave couplers for MIC and MMIC applications," In *3<sup>rd</sup> ISRAMT '91*. Reno, United States: University of Nevada, August 1991.

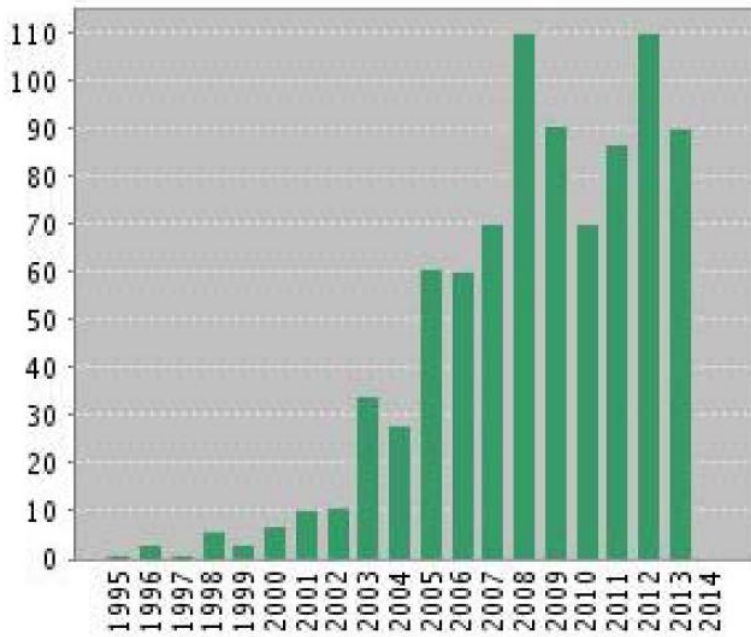


11. Uysal, S and J Watkins, "Forward-wave nonuniform microstrip couplers," In 21<sup>st</sup> European Microwave Conference Proceedings, pp. 722-727. Stuttgart, Germany: Microwave Exhibition & Publishers Ltd, September 1991
12. Uysal, S and J Watkins, "Microwave and millimetre wave monopulse comparators," In IEE Colloquium. London, United Kingdom: IEE, pp. 1-6, November 1991.
13. Uysal, S, J Watkins and C W Turner, "Sum-difference circuits using 0 dB and -3 dB co-directional couplers for hybrid microwave and MIMIC circuit applications," In IEEE MTT-S International Microwave Symposium, pp. 937-940. Albuquerque, United States: IEEE, June 1992.
14. Uysal, S and J Watkins, "Wide band beam forming networks for frequency scanned phased array," In IEEE AP-S International Symposium, Hyatt Regency, Chicago, United States: IEEE, July 1992.
15. Uysal, S and J Watkins, "Novel ( - ( microstrip magic-T particularly for monopulse comparators for direction finding systems," In Asia-Pacific Microwave Conference '92 Proceedings, Adelaide, Australia: APMC, August 1992.
16. Uysal, S and J Watkins, "Microstrip band-pass filters using nonuniform coupled lines," In 22<sup>nd</sup> European Microwave Conference Proceedings, Helsinki, Finland: EuMC'92-IEE, August 1992.
17. Uysal, S and P S Kooi, "Narrowband edge-coupled microstrip filter," In 24<sup>th</sup> European Microwave Conference Proceedings, Cannes, France: EuMC'94-IEE, Vol.24, Pt.1, pp. 484-486, September 1994.
18. Nelson Poh, S M and S Uysal, "-3 dB Wideband tandem microstrip directional couplers and its application to phase shifters," In MINDEF Technology Seminar, Singapore: MINDEF, 1995.
19. Uysal, S and M S Leong, "Narrow, moderate and wide bandwidth loop directional filters," In Asia-Pacific Microwave Conference '95 Proceedings, KAIST, Taejon, South Korea, Vol.1, pp. 44-47. Taejon: APMC '95, October 1995.
20. Uysal, S, "Analytical design equations for edge-coupled microstrip filters," In Asia Pacific Microwave Conference '96, New Delhi, India, pp. 77-79. New Delhi: APMC, December 1996.
21. Uysal, S, "Characteristics of CPW directional couplers with large conductor to ground plane spacing," In Asia Pacific Microwave Conference '96 Proceedings, New Delhi, India, pp. 617-619. New Delhi: APMC, December 1996.
22. Krishnan, S, S Uysal and K W Eccleston, "A new topology for CPW bandpass filters," In PIERS '97, pp. 449. Hong Kong: PIERS, January 1997.
23. Krishnan, S, S Uysal and K W Eccleston, "Hybrid-coupled coplanar waveguide filters," In The 8<sup>th</sup> MINDEF-NUS R&D Seminar, pp. 116-120. Singapore: MINDEF, 1997.
24. Uysal, S, M S Leong and P S Kooi, "Experimental determination of open-end length extension in coplanar waveguide coupled line DC blocks with finite ground planes," In Asia Pacific Microwave Conference '97 Proceedings, Vol.3, pp. 977-979. Hong Kong: APMC'97, December 1997.
25. Kuek, N S and S Uysal, "Investigation of discontinuous coplanar waveguide line with finite ground planes," In Asia Pacific Microwave Conference '97 Proceedings, Vol.3, pp. 969-972, Hong Kong: APMC'97, December 1997.
26. Krishnan, S, S Uysal and K W Eccleston, "A new topology for narrow bandwidth end-coupled CPW filters," In PIERS '97, United States, 1997.
27. Ng, C H, S Uysal and M S Leong, "Microstrip bowtie patch antenna for wireless indoor communications," In IEEE RAWCON '98, Vol. 1, pp. 205-208, United States, August 1998.
28. Quek, C K, K W Eccleston and S Uysal, "Efficient design techniques for medium bandwidth microwave amplifiers," In APCC/ICCS'98 Proceedings, 4<sup>th</sup> Asia Pacific Conference on Communication / 6<sup>th</sup> Singapore International Conference on Communication Systems '98, pp.23-27, Singapore, November 1998.
29. Wu, C H and S Uysal, "A conductor-backed CPW directional coupler with finite ground plane," In Asia Pacific Microwave Conference '98 Proceedings, Vol.2, pp. 681-683. Yokohama, Japan, December 1998.
30. Tan, K W and S Uysal, "Design of conductor-backed asymmetric CPW end-coupled filters," In Asia Pacific Microwave Conference '98 Proceedings, Vol.1, pp. 83-84. Yokohama, Japan, December 1998.
31. Uysal, S, A C Seow, "An x-band microstrip compact monopulse processor," In Asia Pacific Microwave Conference, APMC99 Proceedings, pp. 21-24, Singapore, Dec. 1999.
32. Uysal, S, A K P Loh, "Wideband beam forming network for simple scanning arrays," In Asia Pacific Microwave Conference, APMC99 Proceedings, pp. 25-28, Singapore, Dec. 1999.
33. Uysal, S, J W P Ng, "A Compact coplanar stripline lowpass filter", In Asia Pacific Microwave Conference, APMC99 Proceedings, pp. 307-310, Singapore, Dec. 1999.
34. Kumar, S P T, B Farhang-Boroujeny, S Uysal, C S Ng, "Microwave indoor radio propagation measurements and modeling at 5GHz for future wireless lan systems," In Asia Pacific Microwave Conference, APMC99 Proceedings, pp. 606-609, Singapore, Dec. 1999.
35. Uysal, S, "A double-sided suspended substrate microstrip lowpass filter", SBMO/IEEE MTT-S International Microwave and Optoelectronics Conference, IMOC'2003, Vol.1, pp. 21-23, Brazil, Sept. 2003.
36. Uysal, S, "Multilayer microstrip loop directional filter", SBMO/IEEE MTT-S International Microwave and Optoelectronics Conference, IMOC'2003, Vol.1, pp. 25-29, Brazil, Sept. 2003.

37. Konca, M, S Uysal, "Circular Multi-Directional Patch Antenna Array using a Novel Feed Structure and Equilateral Triangular Patches with Selectable Beams", MMS'2010 Mediterranean Microwave Symposium, pp. 440-443, North Cyprus, Aug. 2010.
38. Uysal, S, M Konca, H Demirel, A Hocanin, "An Integrated Homeland Security Surveillance System", MMS'2010 Mediterranean Microwave Symposium, pp. 284-287, North Cyprus, Aug. 2010.
39. Arbabi, M, M, R Abrishambaf, S Uysal, "Range Free Localization of Wireless Sensor Networks Based on Sugeno Fuzzy Inference", SENSORCOMM 2012, The Sixth International Conference on Sensor Technologies and Applications, pp. 36-41, Italy, Aug. 2012.
40. Jooshesh, A, T A Gulliver, S Uysal, "Space to Ground Optical Power Transmission", BWCCA 2012 7<sup>th</sup> International Conference on Broadband and Wireless Computing, Communication and Applications, pp. 302-307, Canada, Nov. 2012
41. Mirshahi, S, S Uysal, A Akbari, "Integration of RFID and WSN for Supply Chain Intelligence System", ECAI 2013, 5<sup>th</sup> International Conference on Electronics Computers and Artificial Intelligence, Romania, pp. 1-6, June 2013.
42. Farazandeh, F, R Abrishambaf, S Uysal, T Gomes, J Cabral, "A Hybrid Energy-Efficient Routing protocol for Wireless Sensor Networks", ECAI 2013, 5<sup>th</sup> International Conference on Electronics Computers and Artificial Intelligence, Romania, June 2013.
43. Bolourchi, P, S Uysal, "Forest Fire Detection in Wireless Sensor Network Using Fuzzy Logic", 2013 Fifth International Conference on Computational Intelligence, Communication Systems and Networks, pp. 83-87, Spain, Aug. 2013.
44. Jazayeri, M, S Uysal, K Jazayeri, "Analysis of Effects of Sun's Position in the Sky on Solar Radiation and Panel Power Outputs", IEEE AFRICON 2013, International Conference on Sustainable Engineering for a Better Future, Mauritius, Sept. 2013.
45. Jazayeri, K, S Uysal, M Jazayeri, "Determination of Power Losses in Solar Panels Using Artificial Neural Network", IEEE AFRICON 2013, International Conference on Sustainable Engineering for a Better Future, Mauritius, Sept. 2013.
46. Jazayeri, M, S Uysal, K Jazayeri, "A Case Study on Solar Data Collection and Effects of Sun's Position in the Sky On Solar Panel Output Characteristics in Northern Cyprus", International Conference on Renewable Energy Research and Applications, ICRERA-2013, pp. 184-189, Spain, Oct. 2013.
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