

## Short CV

<b>Name</b>	<b>Elias E. Vafiadis - Sinoglou</b>
<i>Position</i>	Associate Professor of Antennas and Microwaves in the School of Physics, Faculty of Science, Aristotle University of Thessaloniki (AUTH), Greece
<i>Studies</i>	<ul style="list-style-type: none"> <li>- Ph.D. in Electrical and Electronic Engineering (1985), School of Electrical and Electronic Engineering, Faculty of Engineering, Democritus University of Thrace (DUTH)</li> <li>- M.S. in Electronic Physics (1979), Program of Postgraduate Studies in Electronic Physics (Radioelectrology), School of Physics, Faculty of Science, AUTH</li> <li>- B.S. in Physics (1975), School of Physics, Faculty of Science, AUTH</li> </ul>
<i>Scientific expertise</i>	<ul style="list-style-type: none"> <li>- Associate Professor in the School of Physics, AUTH, since 2004</li> <li>- Assistant Professor in the School of Physics, AUTH, 1993-2004</li> <li>- Assistant Professor in the School of Electrical and Electronic Engineering, DUTH, 1993</li> <li>- Lecturer in the School of Electrical and Electronic Engineering, DUTH, 1985-1992</li> <li>- Research Associate, in the School of Electrical and Electronic Engineering, DUTH, 1981-1986</li> <li>- Member of Radiocommunications Laboratory, School of Physics, AUTH since 1993</li> <li>- Member of Microwaves Laboratory, School of Electrical and Electronic Engineering, DUTH, 1981-1993</li> <li>- Member of the Institute of Electrical and Electronics Engineers (IEEE) since 1984</li> <li>- National Delegate in URSI Commission E' (Electromagnetic Noise and Interference), 2002-2005</li> <li>- Member of Local Organizing Committee of the 1998 International Symposium on Electromagnetic Theory</li> </ul>
<i>Research activities</i>	He has published nearly 87 scientific papers (40 papers in peer reviewed international journals, 38 papers in international conferences and 9 papers in regional and national conferences)

<p><i>Research activities (cont.)</i></p>	<p>Citations received (self citations of all authors excluded):</p> <p>a) since 1985 : 228</p> <p>b) since 1996 : 123</p> <p>Principal Investigator of 28 research projects</p> <p>Reviewer in 5 international journals</p> <p>Advisor/co-advisor in 41 M.S./Ph.D. engineering students employed in academia, industry and government laboratories in Greece, Europe and the U.S.</p>
<p><i>Research interests</i></p>	<p>Applied Electromagnetism, Antennas, Microwaves, Electromagnetic Scattering, CAD and measurements of RF and microwave devices, Numerical Techniques in Electromagnetics, Telecommunications, BioEM and EMC</p> <p>Current research focuses on the development of RF/RFID systems and on the innovative design techniques for broadband wireless networks and for digitally controlled RF &amp; microwave structures appropriate for Software Defined Cognitive Radio.</p>
<p><i>Most important Publications in last 5 years</i></p>	<p>Fakoukakis, F.E., Kaifas, T.N., <b>Vafiadis, E.E.</b>, Kyriacou, G.A., <u>Design and implementation of Butler matrix-based beam-forming networks for low sidelobe level electronically scanned arrays, (2014) <i>International Journal of Microwave and Wireless Technologies</i>, <a href="#">Article in Press</a>.</u></p> <p>Goudos, S.K., Gotsis, K.A., Siakavara, K., <b>Vafiadis, E.E.</b>, Sahalos, J.N., <u>A multi-objective approach to subarrayed linear antenna arrays design based on memetic differential evolution, (2013) <i>IEEE Transactions on Antennas and Propagation</i>, 61 (6), art. no. 6484903, pp. 3042-3052. <a href="#">Cited 2 times</a>.</u></p> <p>Goudos, S.K., Baltzis, K.B., Siakavara, K., Samaras, T., <b>Vafiadis, E.</b>, Sahalos, J.N., <u>Reducing the number of elements in linear arrays using biogeography-based optimization, (2012) <i>Proceedings of 6th European Conference on Antennas and Propagation, EuCAP 2012</i>, art. no. 6206314, pp. 1615-1618. <a href="#">Cited 1 time</a>.</u></p> <p>Kaifas, T.N., Babas, D.G., Miaris, G.S., Siakavara, K., <b>Vafiadis, E.E.</b>, Sahalos, J.N., <u>Aperiodic array layout optimization by the constraint relaxation approach, (2012) <i>IEEE Transactions on Antennas and Propagation</i>, 60 (1), art. no. 6018265, pp. 148-163. <a href="#">Cited 5 times</a>.</u></p>

*Most important  
Publications in last  
5 years (cont.)*

Goudos, S.K., Siakavara, K., Samaras, T., **Vafiadis, E.E.**, Sahalos, J.N., Sparse linear array synthesis with multiple constraints using differential evolution with strategy adaptation, (2011) *IEEE Antennas and Wireless Propagation Letters*, 10, art. no. 5940202, pp. 670-673. [Cited 11 times](#).

Goudos, S.K., Siakavara, K., Samaras, T., **Vafiadis, E.E.**, Sahalos, J.N. Self-adaptive differential evolution applied to real-valued antenna and microwave design problems, (2011) *IEEE Transactions on Antennas and Propagation*, 59 (4), art. no. 5705555, pp. 1286-1298. [Cited 24 times](#).

Goudos, S.K., Siakavara, K., **Vafiadis, E.E.**, Sahalos, J.N., Pareto optimal yagi-uda antenna design using multi-objective differential evolution, (2010) *Progress in Electromagnetics Research*, 105, pp. 231-251. [Cited 23 times](#)