

Curriculum Vitae

Name:	Achilles D. Boursianis
Position:	Laboratory Teaching Staff, School of Physics, Aristotle University of Thessaloniki
Studies:	<ul style="list-style-type: none"> • Ph.D. Degree, School of Physics, Aristotle University of Thessaloniki, 2017 • M.Sc. Degree in Electronic Physics (Radioelectrology), School of Physics, Aristotle University of Thessaloniki, 2005 • Degree in Physics, School of Physics, Aristotle University of Thessaloniki, 2001
Teaching activity:	<p>Teaching Courses:</p> <ul style="list-style-type: none"> • Electric Circuits Laboratory, Undergraduate Studies, School of Physics, A.U.Th. • Laboratory in Communications and Networks, Undergraduate Studies, School of Physics, A.U.Th. • Telecommunication and Computer Networks, Postgraduate Studies in Electronic Physics (Radioelectrology), School of Physics, Aristotle University of Thessaloniki • Radiocommunications Laboratory, Postgraduate Studies in Electronic Physics (Radioelectrology), School of Physics, Aristotle University of Thessaloniki • Telecommunications Laboratory, Postgraduate Studies in Electronic Physics (Radioelectrology), School of Physics, Aristotle University of Thessaloniki • Broadband Communication Systems, Postgraduate Studies in Electronic Physics (Radioelectrology), School of Physics, Aristotle University of Thessaloniki
Scientific activity:	<ul style="list-style-type: none"> • Researcher at School of Physics, Aristotle University of Thessaloniki (A.U.Th. Research Committee) <p>List of selected research projects:</p> <ul style="list-style-type: none"> ○ Services provision on measurement, recording, validation, and publication results of electromagnetic radiation in the environment, 2003-2021 ○ Technical Support Consultant for the development of metropolitan fiber-optic networks in the region of Central Macedonia, 2004-2017 ○ Development of a broadband monitoring network for electromagnetic radiation assessment, 2009-2012 ○ Sound Exposure and Risk Assessment of Wireless Network Devices (SEAWIND), 2010-2012 ○ RF/RFID systems development for monitoring and recording products and personnel, 2012-2015 ○ Innovative techniques for the transmission and design of wireless broadband networks, 2012-2015 ○ Advancing Rational Exploitation of waTer for IrrigatiOn Using 5G-IoT cAparibilities, 2019-2020

	<ul style="list-style-type: none"> ○ Design of radio frequency energy harvesting systems for mobile and wireless communication networks, 2019-2021 ○ Smart Interconnected next generation Internet of Things, 2021-2023 ○ Classification and characterization of fetal images for assisted reproduction using artificial intelligence and computer vision, 2022-today ○ Smart Fridge Using IoT Technology, 2022-today ○ Recognition and direct characterization of cultural items for the education and promotion of Byzantine Music using artificial intelligence, 2022-today ● Reviewer in 15 international journals ● Member of the technical program committee in 6 international conferences ● Member of the following scientific associations: IEEE, FITCE, Hellenic Physical Society
Research activity:	<p>List of selected publications:</p> <ol style="list-style-type: none"> 1. F. Mavromatis, A. Boursianis, T. Samaras, C. Koukourlis, and J. N. Sahalos, "A broadband monitoring system for electromagnetic-radiation assessment", <i>IEEE Antennas and Propagation Magazine</i>, vol. 51, no. 1, pp. 71-79, 2009. doi: 10.1109/MAP.2009.4939020. 2. S. K. Goudos, T. V. Yioultsis, A. D. Boursianis, K. E. Psannis, and K. Siakavara, "Application of New Hybrid Jaya Grey Wolf Optimizer to Antenna Design for 5G Communications Systems," in <i>IEEE Access</i>. doi: 10.1109/ACCESS.2019.2919116. 3. Achilles D. Boursianis, Maria S. Papadopoulou, Panagiotis Diamantoulakis, Aglaia Liopa-Tsakalidi, Pantelis Barouchas, George Salahas, George Karagiannidis, Shaohua Wan, Sotirios K. Goudos, "Internet of Things (IoT) and Agricultural Unmanned Aerial Vehicles (UAVs) in smart farming: A comprehensive review," <i>Internet of Things</i>, Vol. 18, 2022, 100187, doi: 10.1016/j.iot.2020.100187. 4. A. D. Boursianis et al., "Smart Irrigation System for Precision Agriculture—The AREThOU5A IoT Platform," in <i>IEEE Sensors Journal</i>, vol. 21, no. 16, pp. 17539-17547, 15 Aug.15, 2021, doi: 10.1109/JSEN.2020.3033526. 5. A. D. Boursianis et al., "Multiband Patch Antenna Design Using Nature-Inspired Optimization Method," in <i>IEEE Open Journal of Antennas and Propagation</i>, vol. 2, pp. 151-162, 2021, doi: 10.1109/OJAP.2020.3048495. 6. A. D. Boursianis, M. S. Papadopoulou, S. Koulouridis, P. Rocca, A. Georgiadis, M. M. Tentzeris, and S. K. Goudos, "Triple-Band Single-Layer Rectenna for Outdoor RF Energy Harvesting Applications," <i>Sensors</i>, vol. 21, no. 10, p. 3460, May 2021, doi: 10.3390/s21103460. 7. A. D. Boursianis, M. S. Papadopoulou, M. Salucci, A. Polo, P. Sarigiannidis, K. Psannis, S. Mirjalili, S. Koulouridis, and S. K. Goudos, "Emerging Swarm Intelligence Algorithms and Their Applications in Antenna Design: The GWO, WOA, and SSA Optimizers," <i>Applied Sciences</i>, vol. 11, no. 18, p. 8330, Sep. 2021, doi: 10.3390/app11188330.