

Spyros Nektarios Daskalakis

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Objective

Intrigued and constantly amazed by the ever-evolving world of technology, I am an Assistant Professor in Radio Electronics for Sensors and Wireless Communications at Heriot-Watt University, Edinburgh, UK. With over 8 years dedicated to the design, integration, fabrication, and testing of hardware for wireless sensing devices and RF applications, my focus is on ultra-low-power, cost-effective embedded systems and sensors.

Technical Interests and Expertise

- μ Power consumption & low data rate embedded systems
- RFID/backscatter sensors, Bluetooth, cellular networks
- RF energy harvesting circuits
- Satellite communications
- Software-defined radios (SDRs)
- Low-cost, wireless sensors for agriculture

Selected Work Experience

More information and multimedia available at www.daskalakispiros.com/projects.html

Assistant Professor in Radio Electronics for Sensors and Wireless Communications

Heriot-Watt University

Edinburgh, UK

Jun. 2024 - Present

- Cellular IoT.
- Agriculture sensing.
- Satellite communications.

Research Fellow

School of Electronics, Electrical Engineering and Computer Science, and Centre for Wireless Innovation (CWI)

Queen's University

May. 2024 - Oct. 2024

- Developing an Affordable, Low-Power, Long-Lifespan Livestock Health Monitoring System Integrated with Artificial Intelligence (Life-AI).

Director, Co-Founder

Green IoT Solutions Ltd.

Edinburgh, UK

Dec. 2022 - Present

- Developing low-cost battery-free parking sensing systems.
- Developing low-cost battery-free ECG plant sensors.

Senior Electromagnetic Compatibility (EMC) Engineer

Cirrus Logic, Inc.

Edinburgh, UK

Nov. 2021 - Jun. 2024

- Simulations and design of RF immunity development boards.
- Developing software in Python for lab RF test campaigns.
- RF radiated & conducted immunity tests for ICs.

Hardware Design Engineer

Celestia UK

Edinburgh, UK

Jan. 2021 - Oct. 2021

- Worked on electronic scanning multi-beam antenna (eScan) Gateway for mega-constellations.
- Developed monitoring & control hardware for electronic scanning multibeam antennas.
- Developed front-end and back-end software in Python for controlling phase array antennas.

Self-employed Electronics Engineer

Mixed Signal Systems Limited

Edinburgh, UK

Nov. 2020 - Dec. 2020

- Designed electronic circuits.
- Developed software for various digital communication protocols (USB, I2C, UART).

Telecommunications Engineer

Mandatory Army Services

Greek Army, Greece

Mar. 2020 - Nov. 2020

- Maintained surveillance RADAR infrastructure.
- Developed server interfaces for UAV telemetry.

PhD Researcher

Microwaves and Antenna Engineering Research Group.

Heriot-Watt University

Feb. 2017 - Feb. 2020

- Developed millimeter wave wireless sensors using additive manufacturing based on nanoparticle inks for 5G communications.
- Developed real-time hardware and firmware for embedded sensor-tags to monitor environmental parameters, utilizing broadcast frequency modulated (FM) signals with backscatter communication.
- Developed sensitive & efficient RF harvesters for wireless power transfer and supply batteryless backscatter sensor nodes.

Research Fellow

Georgia Institute of Technology
Agile Technologies for High-performance Electromagnetic Novel Applications (ATHENA) Group. Oct. - Dec. 2016, Nov. 2018 - Mar. 2019

- Researched smart agriculture systems with low energy wireless networks.

Graduate Researcher, Telecom Lab

Technical University of Crete
ERC-04-BLASE research project "Backscatter Networks for Large-Scale Environmental Sensing" Sept. 2014 - Jun. 2016

- Designed and implemented low-power agricultural/environmental sensor network hardware, firmware, and custom physical layer communication, and signal processing; first demonstration of wireless backscatter sensor network in real-world application.
- Managed fab lab: Operated CNC etching machines, electroplate galvanizers, semi-automatic pick-and-place machines, reflow ovens.

Intern

Heraklion, Crete, Greece
Aenaos Energy Systems & IWECO MV SA, Wind Farm Jun. 2011 - Aug. 2012

- Supervised solar farm systems and provided maintenance for the electric circuits.
- Supervised wind farm through SCADA system and provided maintenance for the electronic parts of the wind turbines.

Personal Projects

"Aristeos" & "Kaloudia" Mar. 2014 - Jun. 2016

- "Kaloudia" - Co-founder of an electronic platform connecting producers of traditional products with consumers throughout Greece, promoting direct selling and tourism.
- "Aristeos" - Founder of a group that developed an electronic McPhail trap for automated detection and monitoring of the olive fly population, aiding olive tree farmers in preventing plagues.

Education

Heriot-Watt University, School of Engineering & Physical Sciences **Edinburgh, UK**

Ph.D., Thesis: "Ambient Backscatterers For Low Cost and Low Power Wireless Applications" Feb. 2017 - Mar. 2020
Advisors: Honorary Associate Prof. A. Georgiadis, Prof. G. Goussetis, Prof. M. Tentzeris

Technical University of Crete, School of Electrical & Computer Engineering (ECE) **Chania, Crete, Greece**

M.Sc., Thesis: "Environmental scatter radio sensors with RF energy harvesting" Oct. 2014 - Jul. 2016
GPA: 9.67/10.0. Advisor: Prof. Aggelos Bletsas

Technical University of Crete, School of Electrical & Computer Engineering (ECE) **Chania, Crete, Greece**

Diploma of Engineering (5-year program), Thesis: "Energy harvesting and sensing for backscatter tags" Sept. 2009 - Sept. 2014
GPA: 8.66/10.0. ("Excellent"), Class Ranking: 1st (out of 27), Advisor: Prof. Aggelos Bletsas

Technical Skills

Embedded Systems: 8051, MSP430FR, PIC16LF1459, ATmega2560, **Software Tools:** Python, MATLAB, C, Java, HTML, PHP, GNU Cortex M0+, Chipcon Radios, NRF52832/NRF52811, Xilinx FPGA, Radio, UNIX Shell scripting, MySQL, LaTeX, Assembly, VHDL FT2232H, Simcom A7672X/SIM7600X

CAD & Simulation: Kicad, Eagle, Magic VLSI, Multisim, TiNA, LT- **Prototyping/Testing:** PCB Milling, RF & SMD Board Fabrication, Spice, CorelDRAW, FreeCAD, CST, HFSS, ADS & RFPro, HyperLynx, InkJet & 3D Printing, Testing using a VNA, SA, SG, Oscilloscope, DAQ ns-2

Automation: Wind/solar farms SCADA system supervisory, program- **SDR:** USRP, RTL-SDR, HackRF One ming and installation of PLC SIEMENS S7-1200

Cloud: AWS S3, SES, EC2, Route 53, Certificate Manager, IoT Core, **Database Systems:** InfluxDB, DynamoDB, Grafana, Spotfire CloudFront, Lambda, Certificate Manager

Leadership

Community Engagement: Active GitHub collaborator, contributing to more than 30 open-source projects. Portfolio at github.com/daskals.

Chairing: Chair at Technical University of Crete IEEE Student Branch (2014 & 2015).

Volunteering: Volunteer in IEEE Int. Microwave Symposium (IMS), Philadelphia 2018, in European School of Antennas (ESoA), Edinburgh 2018, and in "open day" events at Heriot-Watt University and Technical University of Crete.

Organizing: Co-organizer of student design competition in IEEE IMS 2018 (Philadelphia) & IMS 2019 (Boston).

Teaching

[TC1]: Teacher - B37GL - Digital Logic and Systems, Heriot-Watt University, Sem 2 2025.

[TC2]: Teacher - B39SB - Time Frequency and Signal Analysis, Heriot-Watt University, Sem 2 2025.

[TC3]: Laboratory Assistant - B38EB Circuits and Analysis, Heriot-Watt University, 2019.

[TC4]: Laboratory Assistant - B39EE Analogue Electronics, Heriot-Watt University, 2017.

[TC5]: Teaching Assistant - Synthesis and Analysis of Telecommunication Modules, Technical University of Crete (2014 - 2015).

Selected Awards/Achievements

- [A1]: Total citations: 1105 (Google Scholar), H-index: 17, Reads: 36600 (ResearchGate), Feb. 2025.
- [A2]: Winner of URSI GASS 2021 **Young Scientist Award** (Co-author), Commission B, Rome, Italy, Sept. 2021.
- [A3]: Winner of **2nd Year Postgraduate Research Prize 2018**, School of Engineering and Physical Sciences, Heriot-Watt Uni, Sept. 2019.
- [A4]: Winner of **IEEE MTT-S Graduate Fellowship for 2019**, Grant: 6000 USD, IEEE Microwave Theory & Techniques Society, Feb. 2019.
- [A5]: Winner of **Heriot-Watt University 1st ISSS Innovation Award**, Grant: 1000 GBP, Project: VineSpy, A Battery-Free, Low-Cost WSN for Smart Vineyard Agriculture Applications, Jul. 2018.
- [A6]: Winner of **2018 Electronics Travel Awards**, Grant: 800 CHF, Electronics Open Access Journal, Feb. 2018.
- [A7]: Winner of **1st Year Postgraduate Research Prize 2017**, School of Engineering and Physical Sciences, Heriot-Watt University, Oct. 2017.
- [A8]: **Lloyd's Register Foundation, International Consortium of Nanotechnologies Doctoral Scholarship**, Oct. 2016.
- [A9]: **Member of Group Team ASTRAPI** wins contest "Seeding Ideas Harvesting the Future, Innovation & Entrepreneurship at TUC 2016", Israeli Embassy & Technical University of Crete, Jul. 2016.
- [A10]: **Onassis Foundation M. Sc. Scholarship** for the academic year 2015-2016, Grant: 5400 €.
- [A11]: **3rd Student Paper Contest Award**, COST WIPE Action Conf., Thessaloniki, Greece, Sept. 2015.
- [A12]: **Short Term Scientific Mission**, COST-WIPE-IC1301, CTTC, Barcelona, Spain, Jun.-Jul. 2015, Grant: 2500 €.
- [A13]: **Co-Founder of Kaloudia Project**: "An online platform/application for finding local products around Greece.", **Clinton Global Initiative University (CGIU) & Angelopoulos Fellowship 2015**, Grant: 20000 €, Miami, Florida, Mar. 2015.
- [A14]: **Citation for 5 years Excellent Graduation**, Technical University of Crete, 2014.
- [A15]: **Founder of Aristeos Project**: "Detection and population monitoring of olive flies with image processing technology." **Clinton Global Initiative University (CGIU) & Angelopoulos Fellowship 2014**, Grant: 10000 €, Phoenix, Arizona, Mar. 2014.
- [A16]: **Excellence Award** for the top of the class. Academic year: 2012-2013, Technical University of Crete.
- [A17]: **Undergraduate Fellowship Award**, awarded to the top 10 of class, Acad. year: 2009-2010, Grant: 100 €, Technical Univ. of Crete.

Training

- [T1]: **Nordic Developer Academy Course**, Cellular IoT Fundamentals, Aug. 2024.
- [T2]: **Nordic Developer Academy Course**, nRF Connect SDK Fundamentals, Jun. 2024.
- [T3]: **Royal Yachting Association (RYA)**, Powerboat Level 2 Certificate, Jan. 2024, Edinburgh Marine Academy.
- [T4]: **Royal Yachting Association (RYA)**, Essential Navigation and Seamanship Certificate, Jan. 2024, Edinburgh Marine Academy.
- [T5]: **Edx.org Course**, Machine Learning with Python: A Practical Introduction, Jan. 2024, Cirrus Logic Inc.
- [T6]: **Edx.org Course**, ChatGPT101: Introduction to ChatGPT, Mar. 2023, Cirrus Logic Inc.
- [T7]: **Keysight Technologies**, Training on 3DEM in ADS (Advanced Design System), Nov. 2021, Cirrus Logic Inc.
- [T8]: **Python Training**, Advanced Python Programming, Dec. 2021, Cirrus Logic Inc.
- [T9]: Trainee of **ECOST-TRAINING SCHOOL-IC1301**, Grant: 550 €, School on Electromagnetics for the IoE (Internet of Everything), University of Bologna, Italy, Apr. 2018.
- [T10]: Trainee of **European Space Agency (ESA) Academy**, Ladybird Guide to Spacecraft Comms Course, ESA ESEC, Belgium, Mar. 2018.
- [T11]: Trainee of **ECOST-TRAINING SCHOOL-IC1301**, Grant: 565 €, Wireless Networks: From Energy Harvesting to Information Processing, Centre Tecnologic de Telecom. de Catalunya (CTTC), Barcelona, Spain, Nov. 2015.

Patents

- [P1]: **S. N. Daskalakis**, G. Goussetis, IP Title: "Long Range Ambient Backscatter", Heriot-Watt University, Greece Patent Application No: 20200100416, 16 Jul. 2020.
- [P2]: **S. N. Daskalakis**, G. Goussetis, IP Title: "Long Range Ambient Backscatter", Heriot-Watt University, UK Patent Application No: GB2016717.7, 21 Oct. 2020.

Book Chapters

- [CH1]: **S. N. Daskalakis**, R. Correia, J. Kimionis, G. Goussetis, M. M. Tentzeris, N. B. Carvalho, A. Georgiadis, "Ambient FM Backscattering Low Cost and Low Power Wireless RFID Applications", Book: Wireless Power Transmission for Sustainable Electronics: COST WiPE - IC1301, Wiley, Apr. 2020.

Journal Publications

- [J1]: A. M. Graham, **S. N. Daskalakis**, V. Fusco, M. M. Tentzeris, S. D. Assimonis, "A Highly Efficient, Scalable, Tetra-Band Metamaterial-Based Ambient RF Energy Harvester", in IEEE Trans. on Mic. Theory and Techniques (TMTT), Jan. 2025, (Submitted).
- [J2]: **S. N. Daskalakis**, A. Georgiadis, M. M. Tentzeris, G. Goussetis, G. Deligeorgis, "The New Era of Long-Range 'Zero-Interception' Ambient

Backscattering Systems: 130 m with 130 nA Front-End Consumption", in MDPI Sensors, May 2022 (**Open Access**).

[J3]: R. Torres, R. Correia, N. B. Carvalho, **S. N. Daskalakis**, G. Goussetis, Y. Ding, A. Georgiadis, A. Eid, J. Hester, M. M. Tentzeris, "Backscatter Communications", in IEEE Journal on Microwaves, Sept. 2021 (**Open Access**).

[J4]: J. Kimionis, A. Georgiadis, **S. N. Daskalakis**, M. M. Tentzeris, "A Printed Millimeter-Wave Modulator and Antenna Array for Low-Complexity Gigabit-Datarate Backscatter Communications", in Nature Electronics, Jun. 2021 (**Open Access**).

[J5]: B. Couraud, R. Vauche, **S. N. Daskalakis**, D. Flynn, T. Deleruyelle, E. Kussener, S. Assimonis, "Internet of Things: A Review on Theory-Based Impedance Matching Techniques for Energy Efficient RF Systems", in MDPI Special Issue: Artificial Intelligence of Things (AIoT), Mar. 2021 (accepted for publication).

[J6]: B. Couraud, T. Deleruyelle, R. Vauche, D. Flynn, **S. N. Daskalakis**, "A Low Complexity Design Framework for NFC-RFID Inductive Coupled Antennas", in IEEE Access, vol. 8, pp. 111074–111088, Jun. 2020.

[J7]: D. Belo, R. Correia, Y. Ding, **S. N. Daskalakis**, G. Goussetis, A. Georgiadis, N. B. Carvalho, "IQ Impedance Modulator Front-End for Low-Power LoRa Backscattering Devices", in IEEE Trans. on Mic. Theory and Techniques (TMTT), vol. 67, no. 12, pp. 5307-5314, Dec. 2019.

[J8]: **S. N. Daskalakis**, G. Goussetis, M. M. Tentzeris, A. Georgiadis, "A Rectifier Circuit Insensitive to the Angle of Incidence of Incoming Waves Based on a Wilkinson Power Combiner", in IEEE TMTT, vol. 67, no. 7, pp. 3210-3218, Jul. 2019.

[J9]: **S. N. Daskalakis**, R. Correia, G. Goussetis, M. M. Tentzeris, N. B. Carvalho, A. Georgiadis, "4-PAM Modulation of Ambient FM Backscattering for Spectrally Efficient Low Power Applications", in IEEE TMTT, vol. 66, no. 12, pp. 5909-5921, Dec. 2018.

[J10]: **S. N. Daskalakis**, G. Goussetis, S. D. Assimonis, M. M. Tentzeris, A. Georgiadis, "A uW Backscatter-Morse-Leaf Sensor for Low Power Agricultural Wireless Sensor Networks", in IEEE Sensors Journal, vol. 18, no. 19, pp. 7889-7898, Oct. 2018. **Top 25 most downloaded Sensors Journal papers in Oct. 2018, Feb.-Mar. 2019.**

[J11]: **S. N. Daskalakis**, J. Kimionis, A. Collado, G. Goussetis, M. M. Tentzeris, A. Georgiadis, "Ambient Backscatterers Using FM Broadcasting for Low Cost and Low Power Wireless Applications", in IEEE TMTT, vol. 65, no. 12, pp. 5251-5262, Nov. 2017.

[J12]: A. Collado, **S. N. Daskalakis**, K. Niotaki, R. Martinez, F. Bolos, A. Georgiadis, "Rectifier Design Challenges for RF Wireless Power Transfer and Energy Harvesting Systems", in RADIOENGINEERING, vol. 26, no. 1, Apr. 2017.

[J13]: **S. N. Daskalakis**, S. D. Assimonis, E. Kampianakis, A. Bletsas, "Soil Moisture Scatter Radio Networking with Low Power", in IEEE TMTT, Special Issue on RFID Sensing & Imaging, vol. 64, no. 7, pp. 2338-2346, Jul. 2016.

[J14]: S. D. Assimonis, **S. N. Daskalakis**, A. Bletsas, "Sensitive and Efficient RF Harvesting Supply for Batteryless Backscatter Sensor Networks", in IEEE TMTT, vol. 64, no. 4, pp. 1327-1338, Apr. 2016.

Conference Publications

[C1]: K. Aliqab, **S. Daskalakis**, "Differential-mode Bandpass Filter with Wideband Behaviour Featuring Intrinsic Common-mode Suppression", March. 2025 (Under preparation).

[C2]: A. Simon, S. Rotenberg, S. Majumder, J. M. Purushothama, **S. Daskalakis**, G. Goussetis, "Technology Development for a Cost-Effective SCOM on the Move System for LEO Satellite Constellations" in proc. URSI Symposium 2025, Durham, United Kingdom, Mar. 2025.

[C3]: S. Majumder, A. Scholz, G. Goussetis, **S. Daskalakis**, "Open Source Python Implementation of CCSDS File Delivery Protocol to Support FileBased Operations" in proc. 2025 IEEE International Conference on Communications (ICC), Montreal, Canada, Jun. 2025.

[C4]: F. Yang, A. Georgiadis, **S. Daskalakis**, K. Niotaki, Y. Hu, J. Yang, C. Song, "Single-Branch Hybrid Resistance Compression Technique for Enhanced Rectifier Performance" in proc. 18th EuCAP, Glasgow, Scotland, Mar. 2024.

[C5]: K. Kossenias, D. Comite, **S. N. Daskalakis**, P. Kontou, M. Kuznetsov, S. K. Podilchak, "A Remote Microwave Thermal Sterilization Approach for the Coronavirus and Other Pathogens by Wireless Power Transmission" in proc. URSI GASS 2021, Rome, Italy, Aug.-Sept. 2021. **Young Scientist Award.**

[C6]: P. Kontou, S. B. Smida, **S. N. Daskalakis**, S. Nikolaou, M. Dragone, D. E. Anagnostou, "Heartbeat and Respiration Detection Using a Low Complexity CW Radar System" in proc. IEEE European Microwave Week 2020 (EuMW) conf., Utrecht, Netherlands, Jan. 2021.

[C7]: **S. N. Daskalakis**, G. Goussetis, A. Georgiadis, "NFC Hybrid Harvester for Battery-Free Agricultural Sensor Nodes" in proc. IEEE RFID Technology and Applications (RFID-TA) conf., Pisa, Italy, Sept. 2019.

[C8]: B. A. Mouris, W. Elshennawy, P. Petridis, **S. N. Daskalakis**, "Rectenna for Bluetooth Low Energy Applications" in proc. IEEE Wireless Power Transfer Conf. (WPTC), London, UK, Jun. 2019.

[C9]: **S. N. Daskalakis**, A. Georgiadis, G. Goussetis, M. M. Tentzeris, "Low Cost Ambient Backscatter for Agricultural Applications" in proc. ICEAA-IEEE APWC 2019, Granada, Spain, Sept. 2019.

[C10]: **S. N. Daskalakis**, S. D. Assimonis, G. Goussetis, M. M. Tentzeris, A. Georgiadis, "The Future of Backscatter in Precision Agriculture", in proc. IEEE AP-S/URSI 2019, Atlanta, Georgia, USA, Jun. 2019.

[C11]: S. D. Assimonis, **S. N. Daskalakis**, V. Fusco, M. M. Tentzeris, A. Georgiadis, "High Efficiency RF Energy Harvester for IoT Embedded Sensor Nodes", in proc. IEEE AP-S/URSI 2019, Atlanta, Georgia, USA, Jun. 2019.

[C12]: R. Correia, Y. Ding, **S. N. Daskalakis**, P. Petridis, G. Goussetis, A. Georgiadis, N. B. Carvalho "Chirp Based Backscatter Modulation" in proc. IEEE MTT-S International Microwave Symposium (IMS), Boston, Massachusetts, USA, Jun. 2019.

[C13]: T.-H. Lin, **S. N. Daskalakis**, A. Georgiadis, M. M. Tentzeris "Achieving Fully Autonomous System-on-Package Designs: An Embedded-on-Package 5G Energy Harvester within 3D Printed Multilayer Flexible Packaging Structures" in proc. IEEE MTT-S International Microwave Symposium (IMS), Boston, MA, USA, Jun. 2019.

- [C14]: **S. N. Daskalakis**, R. Correia, G. Goussetis, M. M. Tentzeris, N. B. Carvalho, A. Georgiadis, "Spectrally Efficient 4-PAM Ambient FM Backscattering for Wireless Sensing and RFID Applications", in proc. IEEE MTT-S IMS, Philadelphia, PA, USA, Jun. 2018. **Student Paper Competition Finalist.**
- [C15]: **S. N. Daskalakis**, G. Goussetis, A. Georgiadis, "Low Bitrate Ambient FM Backscattering for Low Cost and Low Power Sensing", in proc. 2nd URSI Atlantic Radio Science Conf. (AT-RASC), Gran Canaria, Spain, May–Jun. 2018.
- [C16]: **S. N. Daskalakis**, G. Goussetis, A. Georgiadis, "A 2.4 GHz Rectifier Insensitive to the Angle of Incidence of Incoming Waves", in proc. 2nd URSI Atlantic Radio Science Conf. (AT-RASC), Gran Canaria, Spain, May–Jun. 2018.
- [C17]: **S. N. Daskalakis**, A. Collado, A. Georgiadis, M. M. Tentzeris, "Backscatter Morse Leaf Sensor for Agricultural Wireless Sensor Networks", in proc. IEEE Sensors, Glasgow, UK, Oct. 2017. **"Best Paper Distinction" and Invitation for Publication to the IEEE Sensors J.**
- [C18]: **S. N. Daskalakis**, A. Georgiadis, A. Collado, M. M. Tentzeris, "An UHF Rectifier with 100% Bandwidth Based on a Ladder LC Impedance Matching Network", in proc. IEEE European Microwave Week (EuMW), Nuremberg, Germany, Oct. 2017.
- [C19]: **S. N. Daskalakis**, J. Kimionis, J. Hester, A. Collado, M. M. Tentzeris, A. Georgiadis, "Inkjet Printed 24 GHz Rectenna on Paper for Millimeter Wave Identification and Wireless Power Transfer Applications", in proc. IMWS-AMP Int. Microwave Workshop Series on Adv. Materials and Processes, Pavia, Italy, Sept. 2017.
- [C20]: **S. N. Daskalakis**, J. Kimionis, A. Collado, M. M. Tentzeris, A. Georgiadis, "Ambient FM Backscattering for Smart Agricultural Monitoring", in proc. IEEE MTT-S International Microwave Symp. (IMS), Honolulu, Hawaii, USA, Jun. 2017.
- [C21]: A. Servent, **S. N. Daskalakis**, A. Collado, A. Georgiadis, "A Proximity Wireless Sensor Based on Backscatter Communication", in proc. International Applied Computational Electromagnetics Society (ACES), Firenze, Italy, Mar. 2017.
- [C22]: G. Vougioukas, **S. N. Daskalakis**, A. Bletsas, "Could Battery-less Scatter Radio Tags Achieve 270-meter Range?", in proc. IEEE Wireless Power Transfer Conf. (WPTC), Aveiro, Portugal, May 2016.
- [C23]: **S. N. Daskalakis**, A. Georgiadis, A. Bletsas, C. Kalialakis, "Dual Band RF Harvesting with Low-Cost Lossy Substrate for Low-Power Supply System", in proc. IEEE Europ. Conf. on Antennas and Propagation (EuCAP), Davos, Switzerland, Apr. 2016.
- [C24]: **S. N. Daskalakis**, S. D. Assimonis, E. Kampianakis, A. Bletsas, "Soil Moisture Wireless Sensing with Analog Scatter Radio, Low Power, Ultra-Low Cost and Extended Communication Ranges", in proc. IEEE Sensors, Valencia, Spain, Nov. 2014.
- [C25]: S. D. Assimonis, **S. N. Daskalakis**, A. Bletsas, "Efficient RF Harvesting for Low-Power Input with Low-Cost Lossy Substrate Rectenna Grid", in proc. IEEE RFID Technology and Applications (RFID-TA), Tampere, Finland, Sept. 2014.

Selective Conferences - Events

- [E1]: Edinburgh Postgraduate Conference (PGCon), Edinburgh, UK, Oct. 2019 (Presentation).
- [E2]: ICON Summer School 2019, Lloyd's Register Foundation Institute for the Public Understanding of Risk, Singapore, Jul. 2019 (Presentation).
- [E3]: IEEE International Microwave Symposium (IMS) 2019, Boston, Massachusetts, USA, Jun. 2019 (Presentation).
- [E4]: ICON & Lloyd's Register Foundation International Conference 2018, London, UK, May 2018 (Poster).
- [E5]: ICON Conference 2017, Athens, Greece, Apr. 2017 (Poster).

Other Interests - Extra Curricular Activities

Social:

- Senior Member of IEEE.
- Commitment Mentor for Clinton Global Initiative (CGI) University community, 2023.
- IEEE Microwave Theory & Techniques Society.
- Entrepreneurs Social Club (ESC), Edinburgh.

Music: Former Member and Music Producer of TUC Radio Team ("Radio Entasi"). www.entasiradio.tuc.gr

Hobbies: Mountain biking & swimming.

Other: PCB Design & Fabrication, Inkjet & 3D Printing, Cryptocurrency bots.

Citizenship: Greece, United Kingdom.