Charalampos ORFANIDIS



Personal Data

	Kavala, Greece 27 11 1986 Belvederekaj 8, 2450 København, Denmark +45 53550360
EMAIL:	chaorf@dtu.dk
Website	http://www2.compute.dtu.dk/~chaorf/
Linkedin	https://www.linkedin.com/in/chaorf
Scholar ORCID:	https://scholar.google.com/citations?user=uZaCqCIAAAAJ&hl=e 0000-0001-6581-314X
H-index:	6

RESEARCH INTERESTS

Low-Power Wide Area Networks, Robust Communications, IoT, Wearables, Energy Harvesting, HCI

EDUCATION

September 2020	PhD in TECHNOLOGY AND HEALTH, KTH, Royal Institute of Technology , Stockholm, Sweden Title: Robust Low-Power Wide Area Networks for Sports and Health
June 2018	Licentiate in Computer Science with specialization in computer communication, Uppsala University , Uppsala, Sweden Title: Robustness in Low Power Wide Area Networks
January 2015	Master of Science in COMPUTER SCIENCE AND ENGINEERING, Technical University of Denmark , Copenhagen, Denmark Thesis: Investigation of Fault Detection Methods in Wireless Sensor Networks
June 2012	Bachelor of Science INDUSTRIAL INFORMATICS ENGINEERING Technological Educational Institute of Kavala, Kavala Thesis: "IIUSA Industrial Informatics University Survey Application"
Positions	

September 2020 - now :	Postdoctoral Researcher, Technical University of Denmark, DTU Com-
	pute
March 2018 - September 2020:	Doctoral Student KTH Royal Institute of Technology, School of Engi-
	neering Sciences in Chemistry, Biotechnology and Health
March 2015 - March 2018:	Doctoral Student, Uppsala University, IT department

TECHNICAL SKILLS

Programming Languages:	C, C++, Python,
CAD Tools:	Eagle, Upverter
Web Development:	PHP, HTML5
Database Systems:	MySQL, SQL
Operating Systems:	Microsoft Windows, Debian, Contiki OS, RTOS
Simulation:	Cooja, OPNET Modeler
Implementation platforms:	msp430, Cortex-M, ESP32

SELECTED PUBLICATIONS

(2021)	C. Orfanidis, M. Jacobsson, X. Fafoutis Human Computer Interaction aspects of Low-Power Wide Area Networks for Wearable Applications 1st Workshop on Computer Human Interaction in IoT Applications (CHIIoT), Delft, The Netherlands, 2021
(2021)	C. Orfanidis, R. B. Haj Hassen, A. Kwiek, X. Fafoutis, M. Jacobsson A Discreet Wearable Long-Range Emergency System based on Embedded Machine Learning The 6th IEEE PerCom International workshop on Pervasive Health Tech- nologies (PerHealth), Kassel, Germany, 2021
(2019)	C. Orfanidis, L.M. Feeney, M. Jacobsson and P. Gunningberg Cross-technology Clear Channel Assessment for Low-Power Wide Area Net- works 16th IEEE International Conference on Mobile Ad-Hoc and Smart Sys- tems (MASS), Monterey, CA, 2019
(2017)	C. Orfanidis, L.M. Feeney, M. Jacobsson and P. Gunningberg Investigating interference between LoRa and IEEE 802.15.4g networks In Proceedings of the 13th International Conference on Wireless and Mobile Computing, Networking and Communications (WiMob), Rome, 2017

TEACHING

Techical University of Denmark

- Foundations of Distributed Systems, Spring 2021
- Network Security, Spring 2021
- Software Development of Web Services, Fall 2014
- Distributed Systems, Spring 2014

KTH Royal Institute of Technology

- Network Security, Spring 2019, Spring 2020
- Computer Programming, Basic Course, Spring 2019
- Electronic Design, Project Course, Fall 2018

Uppsala University

• Computer Networks II, Fall 2015, Fall 2016

- Secure Computer Systems I, Fall 2015, Fall 2016
- Software Testing and Maintance, Fall 2015

TEACHING COURSES

Academic Teacher Training Course - Uppsala University

STUDENT MENTORSHIP

- Arwinder Singh (Project course) AI hardware accelerator for IoT devices
- Vedant Hemant Kamlaskar (Project course) Battery-free Long Range Smart Shoe
- Saadman Haq (MSc Thesis) Cellular Network Coverage for Smart Agriculture
- Athanasios Theocharis (MSc Thesis) Reliable Mobility in Industrial IoT Networks
- Rayen Bel Haj Hassen Armando Kwiek (BSc Thesis) AI based foot gesture recognition
- Konstantinos Dimitrakopoulos (MSc Thesis) Battery-free LPWAN smartshoe
- Clive Rudd (BSc Thesis) Energy harvesting for shoe wearables
- Felix Werpers (Project course) IoT AI interference recognition

SERVICES

Act as peer reviewer

- Transactions on Emerging Telecommunications Technologies Wiley
- · Annals of Telecommunications Springer
- Wireless Networks (WINE) Springer
- Swedish National Computer Networking Workshop SNCNW 2018, 2019, 2020
- IEEE Access
- Ad Hoc Networks ELSEVIER 2018, 2020
- Journal of King Saud University Computer and Information Sciences ELSEVIER
- 8th International Conference on Wireless Communications and Signal Processing (WCSP 2016)
- 2015 IEEE 2nd World Forum on Internet of Things (WF-IoT)

Panelist

• 7th International Workshop on Energy Harvesting & Energy-Neutral Sensing Systems (ENSsys), New York, 2019

INVITED TALKS

- January 2019, **Enabling IoT for smart cities with LPWAN**, DTU Compute, Technical University of Denmark, organized by Nordic IoT Hub
- July 2018, Robustness in Low Power Wide Area Networks, Mobile Multimedia Laboratory, Athens University of Economics and Business

Research Visits

• Visiting Scholar (2 months) at IMT Atlantique, Rennes, France, 2019

LANGUAGES

GREEK:	Native
ENGLISH:	Fluent
DANISH:	Basic Knowledge
SWEDISH:	Basic Knowledge

CONTACT REFERENCES

Paul Pop

Professor Technical University of Denmark paupo@dtu.dk @+45 4525 3732

Martin Jacobsson Associate Professor KTH Royal Institute of Technology martin.jacobsson@sth.kth.se @+46 8 790 48 33 Xenofon Fafoutis Associate Professor Technical University of Denmark xefa@dtu.dk 20+45 45 25 52 78