

Dimitris Chatzopoulos, PhD

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Education

2013
2018

PhD, in *Computer Science & Engineering*, Department of Computer Science & Engineering, Hong Kong University of Science and Technology, Hong Kong.

2010
2013

MSc, in *Computer Science & Telecommunications*, Department of Electrical & Computer Engineering, University of Thessaly, Greece.

2005
2010

Diploma, in *Electrical & Computer Engineering*, University of Thessaly, Greece.

Publications

Journals

[J7] Dimitris Chatzopoulos, Mahdieh Ahmadi, Sokol Kosta and Pan Hui, “FlopCoin: A Cryptocurrency for Computation Offloading”, **IEEE Transactions on Mobile Computing**, May 2018.

[J6] Dimitris Chatzopoulos, Carlos Bermejo, Ehsan ul Haq, Yong Li, and Pan Hui, “D2D Task Offloading: A Dataset-based Q&A”, **IEEE Communications Magazine**, to appear.

[J5] Dimitris Chatzopoulos, Sujit Gujar, Boi Faltings, and Pan Hui, “LocalCoin: An Ad-hoc Payment Scheme for Areas with High Connectivity”, **IEEE Transactions on Mobile Computing**, under revisions.

[J4] Dimitris Chatzopoulos, Carlos Bermejo, Sokol Kosta, and Pan Hui, “Offloading Computations to Mobile Devices and Cloudlets via an Upgraded NFC Communication Protocol”, **IEEE Transactions on Mobile Computing**, to appear.

[J3] Dimitris Chatzopoulos, Carlos Bermejo, Zhanpeng Huang, and Pan Hui, “Mobile Augmented Reality Survey: From Where We Are to Where We Go”, **IEEE Access**, April 2017.

[J2] Hasan M A Islam, Dimitris Chatzopoulos, Dmitrij Lagutin, Pan Hui and Antti Yla-Jaaski, “Boosting the Performance of Content Centric Networking using Delay Tolerant Networking Mechanisms”, **IEEE Access**. October 2017

[J1] Dimitris Chatzopoulos, Mahdieh Ahmadi, Sokol Kosta and Pan Hui, “OPENRP: A Reputation Middleware for Opportunistic Crowd Computing”, **IEEE Communications Magazine**, July 2016.

Conferences

[C8] Dimitris Chatzopoulos, Sujit Gujar, Boi Faltings, and Pan Hui, “Privacy Preserving and Cost Optimal Mobile Crowdsensing using Smart Contracts on Blockchain”, **IEEE International Conference on Mobile Ad-hoc and Sensor Systems**, October 2018.

[C7] Dimitris Chatzopoulos, Carlos Bermejo Fernandez, Zhanpeng Huang, Arailym Butabayeva, Rui Zheng, Morteza Golkarifard and Pan Hui, “Hyperion: A Wearable Augmented Reality System for Text Extraction and Manipulation in the Air”, **ACM Multimedia Systems**, June 2017.

[C6] Kathleen Sucipto, Dimitris Chatzopoulos, Sokol Kosta and Pan Hui, “Keep Your Nice Friends Close, but Your Rich Friends Closer - Computation Offloading Using NFC”, **IEEE INFOCOM**, May 2017.

[C5] Tristan Braud, Farshid Hassani Bijarbooneh, Dimitris Chatzopoulos, and Pan Hui, “Future Networking Challenges: The Case of Mobile Augmented Reality”, **IEEE ICDCS**, June 2017.

[C4] Dimitris Chatzopoulos and Pan Hui, “ReadMe: A Real-Time Recommendation System for Mobile Augmented Reality Ecosystems”, **ACM Multimedia 2016**, October 2016.

[C3] Dimitris Chatzopoulos, Mahdieh Ahmadi, Sokol Kosta, and Pan Hui, “Have You Asked Your Neighbors? A Hidden Market Approach for Device-to-Device Offloading”, **IEEE WoWMoM 2016**, June 2016

[C2] Dimitris Chatzopoulos, Kathleen Sucipto, Sokol Kosta, and Pan Hui, “Video Compression in the Neighborhood: An Opportunistic Approach”, **IEEE ICC 2016**, May 2016

[C1] Dimitris Hatzopoulos, Iordanis Koutsopoulos, George Koutitas, and Ward van Hedenghem, “Dynamic Virtual Machine Allocation in Cloud Server Facility Systems with Renewable Energy Sources”, **IEEE ICC 2013**, May 2013.

Workshops

[W4] Mattia Giovanni Campana, Dimitris Chatzopoulos, Franca Delmastro, and Pan Hui, “Lightweight Modeling of User Context Combining Physical and Virtual Sensor Data”, **UbiComp - CDP**, October 2018.

[W3] Yao-Chieh Hu, Ting-Ting Lee, Dimitris Chatzopoulos, and Pan Hui, “Hierarchical interactions between Ethereum smart contracts across Testnets”, **ACM Mobisys - CryBlock**, June 2018

[W2] Dimitris Chatzopoulos and Pan Hui, “Asynchronous Reputation Systems in Device-to-Device Ecosystems”, **ACM MobiHoc - HotPOST**, July 2016.

[W1] Carlos Bermejo Fernandez, Dimitris Chatzopoulos, and Pan Hui, “How Sustainable is Social Based Mobile Crowdsensing? An Experimental Study”, **IEEE ICNP - HotPNS**, November 2016.

Posters [P3] Dimitris Chatzopoulos, Sujit Gujar, Boi Faltings and Pan Hui, “LocalCoin: An Ad-hoc Payment Scheme for Areas with High Connectivity”, **ACM MobiHoc**, July 2016

[P2] Dimitris Chatzopoulos and Pan Hui, “Asynchronous Reputation Systems in Device-to-Device Ecosystems”, **IEEE WoWMoM**, June 2016

[P1] Dimitris Chatzopoulos, Pan Hui and Di Huang, “Fides: A Hidden Market Approach for Trusted Mobile Ambient Computing”, **IEEE INFOCOM**, April 2015

Book Chapters [BC2] Dimitris Chatzopoulos, Pan Hui, and Gunnar Karlsson, “Reputation Management on D2D Ecosystems”, **Taylor & Francis**, October 2018

[BC1] Carlos Bermejo, Dimitris Chatzopoulos Pan Hui, and Gunnar Karlsson, “Human Behavior in Crowd-Assisted Computing and Networking”, **Taylor & Francis**, October 2018

Tech. Reports [R5] Dimitris Chatzopoulos, Sujit Gujar, Boi Faltings, Pan Hui, “Privacy Preserving and Cost Optimal Mobile Crowdsensing using Smart Contracts on Blockchain”, arXiv:1808.04056.

[R4] Hasan M A Islam, Dimitris Chatzopoulos, Dmitriy Lagutin, Pan Hui, Antti Ylä-Jääski, “Boosting the Performance of Content Centric Networking using Delay Tolerant Networking Mechanisms”, arXiv:1808.04056.

[R3] Dimitris Chatzopoulos, Sujit Gujar, Boi Faltings, and Pan Hui, “LocalCoin: An Ad-hoc Payment Scheme for Areas with High Connectivity”, arXiv:1708.08086

[R2] Kathleen Sucipto, Dimitris Chatzopoulos, Sokol Kosta, and Pan Hui, “Keep Your Nice Friends Close, but Your Rich Friends Closer – Computation Offloading Using NFC”, arXiv:1612.03000.

[R1] Zhanpeng Huang, Pan Hui, Christoph Peylo and Dimitris Chatzopoulos, “Mobile Augmented Reality Survey: A Bottom-up Approach”, arXiv:1309.4413

Thesis

Ph.D. Thesis “Design and Analysis of Decentralized Incentive and Reputation Mechanisms for Device to Device Ecosystems”, **Thesis Committee:** Prof. Pan Hui (Supervisor), Prof. Gary Chan, Prof. Dimitris Papadopoulos, Prof. Yi Yang, Prof. Dah-Ming Chiu (External), Summer 2018.

Master Thesis “Resource allocation in Cloud Computing”, **Thesis Committee:** Prof. Iordanis Koutsopoulos (Supervisor), Prof. Leandros Tassiulas, Prof. Dimitrios Katsaros, Spring 2013.

Diploma Thesis “Resource allocation in Wireless Networks using Game Theoretic models”, **Thesis Committee:** Prof. Iordanis Koutsopoulos (Supervisor), Prof. Leandros Tassiulas, Spring 2010.

Scholarships & Awards

September 2017 Participation in the 5th Heidelberg Laureate Forum, Heidelberg, Germany.

April 2017 Student Travel Grant from IEEE ComSoc for IEEE Infocom and the presentation of [C6]

6/2016 - 12/2016 Overseas Research Award by the Office of Postgraduate Studies of HKUST.

October 2016 Research Travel Grant from HKUST for ACM Multimedia 2016 and the presentation of [C4].

May 2016 Research Travel Grant from HKUST for IEEE ICC 2016 and the presentation of [C2].

9/2013 - 8/2017 HKUST postgraduate studentship.

2010 Cisco Certified Network Associate (CCNA).

Internships, Academic Visits & Invited Talks

Internships [I3] [**Cambridge University/ UK**] [**1 June - 31 December of 2016**] Internship at Computer Laboratory. Supervisors: Prof. Jon Crowcroft and Dr. Richard Mortier.

[I2] [**EPFL/ Switzerland**] [**2 June - 28 August of 2014**] Internship at Artificial Intelligence Laboratory at EPFL. Supervisor: Prof. Boi Faltings.

[I1] [**CERTH/ Greece**] [**1 June - 31 August of 2010**] Centre for Research and Technology. supervisor: Prof. Leandros Tassiulas.

Visits [V6] [**University of Helsinki/ Finland**] [**28 November - 15 December of 2018**] Computer Science department. Supervisor: Prof. Pan Hui.

[V5] [IIIT Hyderabad/ India] [20 February - 19 March of 2018] Machine Learning Laboratory. Supervisor: Prof. Sujit Gujar.

[V4] [University of Helsinki/ Finland] [September - October of 2017] Computer Science Department. Supervisor: Prof. Pan Hui.

[V3] [Tsinghua University/ China] [11 April - 9 May of 2016] Future Internet Laboratory. Supervisor: Prof. Yong Li.

[V2] [Microsoft Research Asia/ China] [21 December 2015] Microsoft research Asia Lab, Beijing, China.

[V1] [T-labs/ Germany] [July (15 days) and December (10 days) of 2012] Academic visit as part of IKYDA2012 project. Collaborators: Dr. George Smaragdakis, Dr. George Iosifidis and Dr. Nikolaos Chatzis.

Talks [T9] [University of Helsinki/ Finland] [11 December 2018] “Cryptocurrencies and Distributed Ledgers”, Host: Dr. Huber Flores.

[T8] [IIIT Hyderabad/ India] [7 March 2018] “LocalCoin”, Host: Dr. Sujit Gujar.

[T7] [China Academy of Art/ Hangzhou /China] [5 April 2017] “Introduction to Cryptocurrencies and Blockchain”, Host: Dr. Yuk Hui.

[T6] [AUEB/ Greece] [20 December 2016] “Research problems in Mobile augmented reality, and in computation offloading between mobile devices”, Host: Prof. Iordanis Koutsopoulos.

[T5] [University of Helsinki/ Finland] [29 July 2016] “A Cryptocurrency for a Device-to-Device Ecosystem”, Helsinki-Mobile Services and Edge Computing Workshop 2016.

[T4] [Tsinghua University/ China] [6 May 2016] “Incentives and reputation management on D2D ecosystems”, Host: Prof. Yong Li.

[T3] [Tsinghua University/ China] [24 December 2015] “Computation offloading in D2D ecosystems”, Host: Prof. Yong Li.

[T2] [Tongji University/ China] [16 January 2015] “A Framework for Trusted Mobile Ambient Computing”, Host: prof. Weixiong Rao.

[T1] [HKUST/Hong Kong] [2 December 2014] “A Hidden Market Approach for Trusted Mobile Ambient Computing”, HKUST-EPFL Workshop on Data Science, Hong Kong

Professional Service

Reviewer IEEE Journal on Selected Areas in Communications, IEEE Transactions on Mobile Computing, IEEE Transactions on Network Science and Engineering, IEEE Transactions on Network and Service Management, IEEE Communications Magazine, IEEE Communications Letters, IEEE ACCESS, ACM Transactions on Intelligent Systems and Technology, ACM SIGCOMM Computer Communication Review, Elsevier Computer Communications, Elsevier Journal of Parallel and Distributed Computing, Wiley Transactions on Emerging Telecommunications Technologies

TPC NDSS 2019 DISS workshop, IEEE PerCom 2019 PERCROWD workshop, IEEE IPDPS 2019 BDDMC workshop, IEEE ICDE 2019 DASC workshop, IEEE ICACCI 2019, IEEE CCNC 2019, IEEE GLOBECOM 2018 (Social Networks track), IEEE ICC 2018 (SAC Symposium Social Networking Track), ACM Mobisys Posters 2018, IEEE Percom - Percrowd workshop 2018, IEEE GLOBECOM 2017 (Social Networks track), IEEE ICC 2017 (SAC Symposium Social Networking Track), IEEE ICACCI 2017, IEEE GLOBECOM 2016 (Social Networks track), IEEE ICC 2016 (SAC Symposium Social Networking Track), IEEE ICACCI 2016, IEEE Smart City 2016, IEEE Smart City 2015.

Publicity Chair EdgeSys 2019, HotPOST 2018, IEEE ICC 2016 (SAC Symposium Social Networking Track), SIMPLEX 2016, ExtremeCom 2015

Web Chair ExtremeCom 2015, WONS 2014

Experience

9/2018–now **Post doctoral Fellow**, *Department of Computer Science and Engineering*, HKUST, Hong Kong.

9/2017–8/2018 **Part-time Research Assistant**, *Department of Computer Science and Engineering*, HKUST, Hong Kong.

9/2017–now **Researcher**, *GRF Project: “Using Mobile Big Data Analytics to Design and Deploy Scalable Opportunistic Networks”*, project coordinator: Prof. Pan Hui., Systems and Media Laboratory, HKUST, Hong Kong.

1/2016–now **Researcher**, *GRF Project: “OpenRP: Design and Implementation of a Reputation Middleware for Mobile Crowd Computing and Networking Applications”*, project coordinator: Prof. Pan Hui, Systems and Media Laboratory,, Hong Kong.

- 9/2010–7/2013 **Freelance Java and C developer**, Volos, Greece.
- 1/2012–12/2012 **IKYDA research project**, *Project coordinators: Dr. Iordanis koutsopoulos, Dr. Georgios Smaragdakis. Other participants: Dr. George Iosifidis, Dr. Nikolaos Chatzis*, Volos, Greece & Berlin, Germany, Project title: Optimal Management of Storage in Communication Networks and Cloud System.
- 10/2010–7/2011 **CCNA**, *Cisco Certified Network Associate*, Volos, Greece.

Certificates

- Teaching *Teaching Assistant Training Program*, Centre of enhanced learning and teaching, HKUST.
- Programming *Key-CERT IT Specialist Web-Developer*.
- Entrepreneurship *Introduction to Entrepreneurship*, Univ. of Thessaly Faculty of Innovation and Entrepreneurship.
- Entrepreneurship *Product and Service Design*, Univ. of Thessaly Faculty of Innovation and Entrepreneurship.

Languages

- English Fluent *IELTS score: 7/9 at March 2013*
- Greek Mother Tongue

Computer Skills

- Programming Java, C, C++, Bash, HTML, TCL, AWK
- OS Linux, Mac, Android, Windows
- Tools Latex, Matlab, Eclipse, Android Studio, Git, Dia, OmniGraffle

Teaching Assistance Experience

HKUST, Department of Computer Science & Engineering

- Spring 2017 COMP 1021: Introduction to Computer Science
- Fall 2015 COMP 4621: Introduction to Computer Networks
- Fall 2014 COMP 4621: Introduction to Computer Networks

University of Thessaly, Department of Electrical & Computer Engineering

- Spring 2011 Java programming Language
- Fall 2010 C programming Language
- Spring 2007-2010 Differential Equations
- Fall 2006 Mathematics I

Student Supervision Experience

Hong Kong University of Science and Technology

- Final Year Thesis NFC-based D2D Computation Offloading
Implementing smart contracts on DAG-based cryptocurrencies
- Final Year Projects NFC-based Computation Offloading to Cloudlets
Deployment of Smart Contracts on Blockchains for Internet of Things Applications
- UROP Projects Algorithms and Games in Android Devices
Blockchain Applications
Can We Build a Cloud from the Crowd? Cloud Computing on Smartphones
Dissecting WhatsApp Messages and Calls