

ABDELMALIK BACHIR

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Research Interests

Internet Architecture, Communication Protocols, Internet of Things, Intrusion Detection, Location Prediction, Privacy, D2D Communication.

Education

- 2004 – 2007 **Grenoble Institute of Technology (INPG)** - Grenoble, France
PhD in Computer Science
R&D Engineer at France Telecom R&D Labs, Grenoble, France
- 2001 – 2002 **University of Aix-Marseille II** - Marseille, France
DEA (\sim MSc.) in Computer Science
- 1983 – 1985 **National Institute of Informatics (INI)** - Algiers, Algeria
Engineer (\sim MEng) in Computer Science

Teaching Experience

- 2013 – 2021 **Advanced Computer Networks: Biskra University**
TCP/IP Architecture and Protocols.
- 2016 – 2021 **Computer Communication Security**
Symmetric and Asymmetric Cryptography, Security Protocols.
- 2012 – 2013 **Data Structure and Algorithms**

2010 – 2011 **Programming in Java**

2009 – 2011 **Programming in Ocaml**

Research Projects

2018 – 2022 **Design and Optimization of the IoT: Architecture and Protocols**
PI. National PRFU Project

2014 – 2017 **Virtual Radio**
PI. National CNEPRU Project

2013 – 2013 **WiFi Mobility Profiling**
Co-I. Imperial Innovations Pathways to Impact

2012 – 2012 **Aggregated Mobility Profiling**
Co-I. Imperial Innovations Proof of Concept

Recent Publications

2022 **Location Embedding and Deep Convolutional Neural Networks for Next Location Prediction**
Abdessamed Sassi, Mohamed Brahimi, Walid Bechkit, Abdelmalik Bachir.
In Proceedings of IEEE LCN 2019, October 14-17, 2019, Osnabrück, Germany.

2015 **Joint Connectivity-Coverage Temperature-Aware Algorithms for Wireless Sensor Networks**
A. Bachir, and K. K. Leung.
Patent No WO/2013/186552.

2013 **Method And System For Aggregating Mobility Data**
A. Bachir, and K. K. Leung.
Patent No WO/2013/186552.

2009

**Preamble sampling MAC protocols with persistent receivers
in wireless sensor networks**

Abdelmalik Bachir, Martin Heusse, Andrzej Duda, Kin K. Leung
IEEE Transactions on Wireless Communications 8(3): 1091-1095
(2009)