

## Jagdish Prasad ACHARA

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### RESEARCH INTERESTS

System Security  
Online Security & Privacy  
S&P aspects of Smart Devices  
Distributed Systems

### EXPERIENCE

- Privatics team, Inria, France** Nov'13 - Present  
Doctoral Researcher, 'CAPPRIS project' Inria Project Lab  
*Mobile devices and Operating Systems from privacy point of view*  
Supervisors: Vincent Roca, Aurelien Francillon and Claude Castelluccia
- Telefonica Research, TID, Barcelona, Spain** Dec'15 - Jan'16  
Visiting Researcher (Intern)  
Supervisors: Nicolas Kourtellis and Nikolaos Laoutaris
- Privatics team, Inria, France** Nov'11 - Nov'13  
Research Engineer, 'Mobilitics project' in collaboration with CNIL  
Supervisors: Vincent Roca and Claude Castelluccia
- Cassis team, Inria, France** Feb - June'11  
Intern, (as part of my Research Master)  
*Security Framework for Decentralized Shared Calendars*  
Supervisors: Abdessemed Imine and Michael Rusinowitch
- Cassis team, Inria, France** May - August'10  
Intern  
*Designed and Implemented a Decentralized Shared Calendar*  
Supervisors: Abdessemed Imine and Michael Rusinowitch
- Algorille team, Inria, France** May - July'09  
Intern, (as part of my B.Tech. studies)  
*Improved data management features in P2PMPI and developed a Windows Installer for the library. New version (0.29.0) of this library is released after this work.*  
Supervisor: Stephane Genaud

### EDUCATION

**Research Master (Services, Security and Networks)** 2010 - 2011  
Henri Poincare University, Nancy, France  
Score: 13.52/20.00  
Thesis: '*Security Framework for Decentralized Shared Calendars*'

**B.Tech. in Communication and Computer Engg.** 2006 - 2010  
The LNM Institute of Information Technology, Jaipur, India  
CGPA: 7.52/10.00  
Thesis: 'An Improvement in LVCT Cache Replacement Policy for Data Grids '

## HONORS

Among top 1% in *AIEEE (All India Engineering Entrance Examination)*

Ranked 31<sup>st</sup> out of 164 teams in *ACM ICPC (International Collegiate Programming Contest)* regional (2007) contest held at Amrita University, Kerla, India

## PUBLICATIONS

Jagdish Prasad Achara, Vincent Roca, Claude Castelluccia and Aurelien Francillon  
MobileAppScrutinator: A Simple yet Efficient Dynamic Analysis Approach for Detecting Privacy Leaks across Mobile OSs  
In *2016 Annual Computer Security Applications Conference (ACSAC)*, 2016  
(to be Submitted)

Jagdish Prasad Achara, Javier Parra-Arnau and Claude Castelluccia  
MyTrackingChoices: Pacifying the Ad-Block War by Enforcing User Privacy Preferences  
In *The Workshop on the Economics of Information Security (WEIS)*, 2016

Javier Parra-Arnau, Jagdish Prasad Achara and Claude Castelluccia  
MyAdChoices: Bringing Transparency and Control to Online Advertising  
Submitted to *ACM Transactions on the Web (ACM TWEB)*, Jan 2016

Gergely Acs, Jagdish Prasad Achara and Claude Castelluccia  
Probabilistic  $k^m$ -anonymity (Efficient Anonymization of Large Set-Valued Datasets)  
In *IEEE Conference on Big Data (IEEE Big Data)*, 2015

Jagdish Prasad Achara, Gergely Acs and Claude Castelluccia  
On the Unicity of Smartphone Applications  
In *ACM CCS Workshop on Privacy in Electronic Society (ACM WPES)*, 2015

Celestin Matte, Jagdish Prasad Achara and Mathieu Cunche  
Device-to-Identity Linking Attack Using Targeted Wi-Fi Geolocation Spoofing  
In *ACM Conference on Security and Privacy in Wireless and Mobile Networks (ACM WiSec)*, 2015

Jagdish Prasad Achara, Mathieu Cunche, Vincent Roca and Aurelien Francillon  
WiFiLeaks: Underestimated Privacy Implications of the ACCESS\_WIFI\_STATE Android Permission  
In *ACM Conference on Security and Privacy in Wireless and Mobile Networks (ACM WiSec)*, 2014

Jagdish Prasad Achara, James-Douglas Lefruit, Vincent Roca and Claude Castelluccia  
Detecting Privacy Leaks in the RATP App: how we proceeded and what we found  
In *The Journal of Computer Virology and Hacking Techniques (Springer JCHVT)*, 2014

Jagdish Prasad Achara, Franck Baudot, Claude Castelluccia, Geoffrey Delcroix and Vincent Roca  
Mobilitics: Analyzing Privacy Leaks in Smartphones  
In *ERCIM News 93*, 2013

Jagdish Prasad Achara, Abdessamad Imine, and Michael Rusinowitch.  
DeSCal - Decentralized Shared Calendar for P2P and Ad-Hoc Networks  
In *IEEE International Symposium on Parallel and Distributed Computing (IEEE IS-PDC)*, 2011

Jagdish Prasad Achara, Abhishek Rathore, Vijay Kumar Gupta and Arti Kashyap  
An improvement in LVCT cache replacment policy for data grid  
In *International Workshop on Advanced Computing and Analysis Techniques in Physics Research (ACAT)*, 2010

**SERVICE** IEEE ATC 2016 (PC Member)  
NDSS 2015, RAID 2014, WiSec 2016/2015/2014, PETS 2014/2013 (External Reviewer)

**TEACHING** Computer Architecture  
At *IUT2, UPMF*, 2015-16, Grenoble, France

Object-Oriented Programming Languages (Java)  
At *IUT2, UPMF*, 2015-16, Grenoble, France

Network Architecture  
At *IUT2, UPMF*, Year 2015-16 and 2014-15, Grenoble, France

Unix Systems  
At *IUT2, UPMF*, 2014-15, Grenoble, France

Network Services and Security  
At *IUT2, UPMF*, 2014-15, Grenoble, France

C Language  
At *IUT2, UPMF*, 2014-15, Grenoble, France

Coding and Security of Networks  
At *Grenoble INP and ENSIMAG*, 2013-14, Grenoble, France

Smartphone Security Overview  
Guest Lecture with Dr. Claude Castelluccia in Advanced Network Security Course,  
At *Grenoble INP and ENSIMAG*, Grenoble, France  
Slides: 2012, 2013 (Part 1 and Part 2)

**SKILLS** **Programming Languages:** Objective-C++, PHP, Java, JavaScript, Python  
**Operating Systems:** iOS, Android, UNIX (and its variants)  
UNIX (and its variants) Systems Security

**LANGUAGES** English (Fluent)  
French (Level: B1 Intermediate 2, Score: 22/30 in TeleLangue test dated Aug, 2013)  
Hindi (Maternal)