



Fátima Castro Jul

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Telecommunication engineer with a scientific background and international experience.

Experience

- 09/2014 - ongoing** **Researcher**
atlanTTic Research Center, Universidade de Vigo
- Research areas: Internet of Things, smart cities, data analysis.
 - Design of proximity communication solutions for context-aware mobile devices.
 - Network simulations in ns-3 with realistic traces from SUMO and Bonnmotion.
 - Analysis of social networks data using R.
- 03 - 05/2017** **Invited researcher**
SAMOVAR Lab, Télécom SudParis (Francia)
- Design of fog architectures for distributed event-based systems.

Education

- 09/2014 - 12/2018** **Ph.D. in Information and Communication Technologies**
Universidade de Vigo
- **Predoctoral Fellowship** granted by Xunta de Galicia (ED481A-2016/214).
- Thesis: *Exploiting Proximity Collaboration in Mobile Context-Awareness*
International Mention
- 09/2009 - 07/2014** **Ingeniería de Telecomunicación** (Telecommunication Engineering)
Universidade de Vigo, specialisation in Telematics.
5 years Degree (**BSc+MSc**) including: Radio Engineering, Signal Processing, Electronics, Information and Communication Technologies.
- 2013 - 2014** Erasmus. University of Oulu (Finlandia)

Skills

- Languages**
- Spanish, Galician (Native). English (Fluent, C1). French (Upper-intermediate, B2). German (Intermediate, B1).
- Communication**
- Written & oral communication. Presentations in international conferences. Peer-reviewed scientific publications.
 - Communication with students during undergraduate teaching in Engineering and Telecommunication Technologies.
 - Experience in multicultural environments. Research stay in France during Ph.D. Erasmus in Finland.
 - Aptitude for language learning.

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| Organization | <ul style="list-style-type: none"> • Team and independent work. Collaboration with research teams from different universities. Participation in national research projects. | |
| Technologies | <ul style="list-style-type: none"> • Operating systems: Ubuntu, Windows • Urban mobility: SUMO, Bonnmotion • Programming: C, C++, Java, Bash, Python • Web programming: HTML, JavaScript • Tools: Office, LaTeX, Matlab | <ul style="list-style-type: none"> • Network simulation: ns-3 • Data analysis: R • Version control: git • Databases: MySQL • GIS: QGIS. |
| Other | <ul style="list-style-type: none"> • Analysis & problem solving. • Easy adaptation to change. • Desire for self-improvement. | |

Publications

- **F. Castro-Jul**, R. P. Díaz-Redondo, and A. Fernández-Vilas, “Collaboratively assessing urban alerts in ad hoc participatory sensing,” *Computer Networks*, vol. 131, pp. 129–143, 2018.
- **F. Castro-Jul**, D. Conan, S. Chabridon, R. P. Díaz-Redondo, A. Fernández-Vilas, and C. Taconet, “Combining fog architectures and distributed event-based systems for mobile sensor location certification,” in *International Conference on Ubiquitous Computing and Ambient Intelligence (UCAmI)*, pp. 27–33, Springer, 2017.
- **F. Castro-Jul**, A. Fernandez-Vilas, and R. P. Diaz-Redondo, “How should my device behave now? Adapting consensus protocols for autonomous context management,” *Journal of Computers*, vol. 12, no. 3, pp. 200–211, 2017.
- **F. Castro-Jul**, R. P. Díaz-Redondo, and A. Fernández-Vilas, “Have you also seen that? Collaborative alert assessment in ad hoc participatory sensing,” in *International Conference on Ubiquitous Computing and Ambient Intelligence (UCAmI)*, pp. 125–130, Springer, 2016.

Participation in research projects

- **MAGOS: Secure sMArt Grid using Open Source Intelligence.** (2018-2020). Spanish Ministry of Economics, Industry and Competitiveness. Proyectos de I+D+I del programa estatal de investigación, desarrollo e innovación orientada a los retos de la sociedad (TEC2017-84197-C4-2-R).
- **INRISCO: INcident monitoRing In Smart COmmunitiesI** (2015-2017). Spanish Ministry of Science and Innovation. Proyectos de I+D+I del programa estatal de investigación, desarrollo e innovación orientada a los retos de la sociedad (TEC2014-54335-C4-3-R).
- **EMRISCO: EMergence Response In Smart COmmunities** (2014). Spanish Ministry of Science and Innovation. Proyectos de I+D+I del programa estatal de investigación, desarrollo e innovación orientada a los retos de la sociedad (TEC2013-47665-C4-3-R).

Other

Willing to travel and relocate
Driving license B