

## Results of the Carnegie Mellon Portugal Program 2019 Call for Exploratory Proposals

Under Carnegie Mellon Portugal Program 2019 Call for Exploratory Proposals, Fundação para a Ciência e a Tecnologia (FCT) will fund seven (7) new projects. National institutions will benefit from an overall funding of 435 000€.

### **Automatic generation of humor for social robots**

Principal Investigator in Portugal: Ana Paiva

Principal Investigator at CMU: Louis-Phillippe Morency

Participant institutions: Instituto de Engenharia de Sistemas e Computadores, Investigação e Desenvolvimento em Lisboa, Instituto Superior Técnico, Universidade de Lisboa; ISCTE - Instituto Universitário de Lisboa; Language Technologies Institute - Carnegie Mellon University

### **CRUAV: Cooperative Trajectory Planning for Real-Time Surveillance in UAV-assisted Intelligent Transportation Systems**

Principal Investigator in Portugal: Kai Li

Principal Investigator at CMU: Pei Zhang

Participant institutions: Instituto Superior de Engenharia do Porto, Instituto Politécnico do Porto; Faculdade de Engenharia da Universidade do Porto; Department of Electrical and Computer Engineering - Carnegie Mellon University

### **Intelligent Beamforming Metasurfaces for Future Telecommunications**

Principal Investigator in Portugal: Stanislav Maslovski

Principal Investigator at CMU: Sheng Shen

Participant institutions: Universidade de Aveiro; Instituto de Telecomunicações Aveiro; Department of Mechanical Engineering at Carnegie Mellon University.

### **PassCert: Exploring the Impact of Formal Verification on the Adoption of Password Security Software**

Principal Investigator in Portugal: João Fernando Ferreira

Principal Investigator at CMU: Nicolas Christin

Participant institutions: Instituto de Engenharia de Sistemas e Computadores, Investigação e Desenvolvimento em Lisboa, Instituto Superior Técnico, Universidade de Lisboa; Inesc Tec - Instituto de Engenharia de Sistemas e Computadores, Tecnologia e Ciência; Department of Computer Science- Carnegie Mellon University

### **Privacy in speaker diarization: Detecting “who spoke when” privately**

Principal Investigator in Portugal: Isabel Trancoso

Principal Investigator at CMU: Bhiksha Raj Ramakrishnan

Participant institutions: Instituto de Engenharia de Sistemas e Computadores, Investigação e Desenvolvimento em Lisboa, Instituto Superior Técnico, Universidade de Lisboa; Language Technologies Institute - Carnegie Mellon University

### **SecurityAware: Fine-grained approach to detect and patch vulnerabilities**

Principal Investigator in Portugal: Rui Maranhão

Principal Investigator at CMU: Hakan Erdogmus

Participant institutions: Instituto de Engenharia de Sistemas e Computadores, Investigação e Desenvolvimento em Lisboa, Instituto Superior Técnico, Universidade de Lisboa; Department of Electrical and Computer Engineering - Carnegie Mellon University

**Synthesizing Network Accelerators using Programmable Switching Equipment**

Principal Investigator in Portugal: Luís Pedrosa

Principal Investigator at CMU: Justine Sherry

Participant institutions: Instituto de Engenharia de Sistemas e Computadores, Investigação e Desenvolvimento em Lisboa, Instituto Superior Técnico, University of Lisbon; FCIências.ID - Associação para a Investigação e Desenvolvimento de Ciências; Department of Computer Science- Carnegie Mellon University