# PhD Position on
# *Network Monitoring and Management in the Future Internet*
# at the University of Pisa

A PhD position on Network Monitoring and Management in the Future Internet is available at the University of Pisa. The position is fully funded (stipend and tuition for three years).

*Theme:*
Traditional network measurement techniques often require to transfer large amounts of data. This is not an issue in wired environments, where bandwidth is abundant, but it might represent a problem in wireless networks, where the overall amount of transferable data is limited by the monthly cap associated to subscriptions or by the energy budget of resource-constrained devices (as it happens in an IoT-based scenario). The PhD candidate will be involved in the design of novel measurement methods suitable for the requirements of the emerging scenarios of the Future Internet. The availability of effective measurement methods specifically tailored for the Future Internet will open new opportunities in terms of network monitoring. For instance, monitoring might be aimed at assessing the neutrality of mobile network operators in the presence of 5G-enabled applications, or at identifying significant changes in the operating conditions of networked things. Similarly, novel management strategies may be defined to achieve automatic provisioning of resources in a measurement-and-control loop.

Ideal candidates should have or expect to obtain a MSc, or equivalent degree, in Computer Engineering, Computer Science, or closely related disciplines. The following qualities are desirable: strong interest in the specific research area; excellent record of academic and/or professional achievement; strong programming skills; good written and spoken communication skills in Italian or English; proactive approach to research problems.
The position will be supervised in Pisa by Prof. Alessio Vecchio. The candidate is also expected to actively participate in ongoing research activities on these topics currently carried out in collaboration with CNR and other research groups.

The position is offered within the **PhD Program in Smart Computing** (a joint program, one PhD degree awarded from the Universities of Florence, Pisa, and Siena).
PhD program in Smart Computing: http://smartcomputing.unifi.it/
Positions: http://smartcomputing.unifi.it/procedures.html

The candidate will be required to spend six months at a foreign institution. Scholarships are increased by 50% during the time spent abroad.

The candidate may apply before graduation but he/she must obtain his/her degree before the beginning of the PhD Program. Specific requirements and documents to be submitted will be described in the call for application. The formal call for applications will be published on June 18 at this address: http://www.unifi.it/cmpro-v-p-11202.html.

**\*The deadline is July 18, 12:00 CET\***

For additional information send an email to: alessio.vecchio@unipi.it