SEMĩoTICS

SEMIoTICS: Smart End-to-end Massive IoT Interoperability, Connectivity and Security

HORIZON 2020

SEMIoTICS Status

The main highlights in the context of SEMIoTICS during the last 4 months (June 2018 - September 2018), can be summarized as follows:

- The SEMIoTICS **F2F meeting** took place in Heraklion, Crete in July.

- SEMIoTICS had a strong presence with **poster presentations** in a series of co-located events organized by FORTH (i.e., **RAID, IOSec, SMESEC**).

- SEMIoTICS was presented in the **Researcher's Night** at FORTH premises.

- SEMIoTICS organized a **Special Session** in **IEEE CAMAD 2018**, held in Barcelona, Spain.

- SEMIoTICS presented a demo in IEEE CAMAD 2018, which was granted the **Best Demo Award** of the conference!

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SEMIoTICS in Researcher's Night 2018 (Heraklion, Greece)

SEMIoTICS F2F meeting

The 2nd SEMIoTICS **F2F meeting** was successfully held on July 11-12, 2018 at Heraklion, Crete. During the meeting, the current status of the running work packages was discussed, including also the next steps.

SEMIoTICS Dissemination Activities

RAID 2018

SEMIoTICS was presented in the 21st International Symposium on Research in Attacks, Intrusions, and Defenses (RAID 2018), at Heraklion, Crete during 10-14 September 2018.

NIS Summer School 2018

SEMIoTICS was sponsor of the 5th Network and Information Security (NIS'18) Summer School at Heraklion, Crete, 24-28 September 2018. This year´s theme was "The Challenge of the Changing Risk Landscape".

Researcher´s Night 2018

SEMIoTICS was presented in the Researcher's Night 2018 (28 September 2018) at the premises of FORTH, where the visitors had the chance to be informed about the main objectives of our project.

SEMIoTICS Special Session

SEMIoTICS organized a dedicated **Special Session** during **IEEE CAMAD** conference in Barcelona, Spain (17-19 September 2018).

IEEE CAMAD brought together a diverse group of both academia and industry to exchange new ideas on research and innovation results in the 5G domain.

SEMIoTICS Awards

SEMIoTICS received the Best Demo Award in IEEE CAMAD 2018!!

The demo **Elderly Care Leveraging Pervasive Computing**, developed by CTTC in the context of SEMIoTICS, was granted the **Best Demo Award in IEEE CAMAD** (Barcelona, Spain). The proposed solution exploits recent advances in IoT, which enable the pervasive monitoring of body metrics and, in combination with appropriate big data algorithms and state-of-the-art communication technologies, lead to efficient predictive and reactive actions that could potentially save lives.

SEMIoTICS
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Grant Agreement:
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Project Duration:
01.01.2018 – 31.12.2020

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Publications

1. P. Trakas, F. Adelantado and C. Verikoukis, **QoE-aware resource allocation for profit maximization under user satisfaction guarantees in HetNets with differentiated services**, to appear in *IEEE Systems*.

2. P. Trakas, F. Adelantado and C. Verikoukis, **Network and Financial Aspects of Traffic Offloading with Small Cell as a Service**, to appear in *IEEE Transactions on Wireless Communications*.

3. J. Serra, L. Sanabria-Russo, D. Pubill and C. Verikoukis, **Scalable and Flexible IoT data analytics: when Machine Learning meets SDN and Virtualization**, *IEEE CAMAD 2018*, 17-19 September 2018, Barcelona, Spain.

4. D. Pubill, J. Serra and C. Verikoukis, **Harvesting artificial light indoors to power perpetually a Wireless Sensor Network node**, *IEEE CAMAD 2018*, 17-19 September 2018, Barcelona, Spain.

5. G. Hatzivasilis, I. Askoxylakis, G. Alexandris, K. Fysarakis, **The Interoperability of Things**, *IEEE CAMAD 2018*, 17-19 September 2018, Barcelona, Spain.

6. O. Soultatos, G. Spanoudakis, K. Fysarakis , I. Askoxylakis, G. Alexandris, A. Miaoudakis, N. E. Petroulakis, **Towards a Security, Privacy, Dependability, Interoperability Framework for the Internet of Things**, *IEEE CAMAD 2018*, 17-19 September 2018, Barcelona, Spain.

7. K. Kearney, F. Saccà, D. Presenza, P. Wright, **Key challenges for developing a Socially Assistive Robotic (SAR) solution for the health sector**, *IEEE CAMAD 2018*, 17-19 September 2018, Barcelona, Spain.

8. G. Hatzivasilis, K. Fysarakis, I. Askoxylakis, A. Bilanakos, **CloudNet Anti-Malware Engine: GPU-Accelerated Network Monitoring for Cloud Services**, *IOSec*, 13 September 2018, Heraklion, Crete, Greece, Springer, LNCS.

SEMIoTICS in Social Media

SEMIoTICS is present in:

TWITTER

Please follow us **@semiotics_eu** to keep up to date with the project progress!