POSEIDON

RELATED TOP STORIES

New Study on Digital Identity Shows Changing Consumer Behaviors

The study on the digital identity of consumers, aimed at giving visibility to companies on how consumers' preferences and opinions regarding identity and fraud are shifting, shows that changing behaviors create challenges and opportunities for financial service providers and financiers.

see more

The Answer To Digital Identity Lies Within Blockchain Technology

With blockchain technology, you have greater reliability and efficiency for sharing data and transactions, but how can we manage our online identity safely? A solution would lie in the creation of a portfolio containing different components of one's digital identity, such as date of birth, address, driving license, etc., able to not share personal information but only a key to this data online.

see more

Almost a third of European firms still not compliant with GDPR

Nearly one-third of European companies admit that they are not yet compliant with the EU's general data protection regulation, but there are encouraging signs of greater maturity in data protection, with new rules guiding best practices to support businesses.

see more

4TH POSEIDON GENERAL ASSEMBLY

Thirty-two people participated in the 4th POSEIDON General Assembly, that took place in the University of Coimbra, Portugal, on 10-11 July 2019. The meeting was opened by POSEIDON's Project Coordinator and Technical Leader, Mr. Francesco Paolo Schiavo (MEF) and Mr. Dario Beltrame (ACN). POSEIDON is now at a critical point of its workplan, with the development of interim implementations of its main building blocks, namely, Blockchain, Web Dashboard, Risk Management Module, and Personal Data Analyser, and the planning of the various pilots. In addition to presentations and discussion, the General Assembly provided an opportunity for parallel hands-on sessions, addressing the overall integrated architecture, the staging environment, flow and functionalities of the implemented blockchain core mechanisms, data management flows, APIs verification, and integration strategy and services. An assessment of the main implemented platform components and validation was done, in order to enable pilots implementation and use-case deployment phases by the involved partners. There was also a session with a representative of the PAPAYA project, for discussing possible collaboration between the two projects, namely in what concerns the use of the Web Dashboard. Last but not least, dissemination activities, exploitation of results and market analysis were also subject to discussion and analysis.

1ST INTERNATIONAL WORKSHOP ON PRIVACY, DATA PROTECTION, AND DIGITAL IDENTITY

POSEIDON organised the 1st International Workshop on Privacy, Data Protection and Digital Identity, that took place in Coimbra, Portugal, on July 11th, 2019, with roughly 60 registered participants.

The workshop program was quite intense and counted with presentations from five H2020 projects. The workshop also counted with the participation of Mr. Nikolaos Panagiotarakis (EC Research Executive Agency), who made a detailed presentation on the H2020 cyber-security relevant calls in 2020. The workshop closed with a panel on Privacy, Data Protection and Digital Identity, during which the panelists expressed their views on several topics raised by the attendees.

See below the abstracts of presentations.

See more

"Information on the H2020 cyber-security relevant calls in 2020", Nikolaos Panagiotarakis (EC Research Executive Agency)

Overview of the next year's Call of H2020 (Opening: 12 Mar 2020) with a special focus on the topics related to Cybersecurity, Digital Privacy and data protection, namely:

- **SU-DS02-2020**: Intelligent security and privacy management (IA/ RIA);
- **SU-DS03-2019-2020**: Digital Security and privacy for citizens and Small and Medium Enterprises and Micro Enterprises (IA);
- **SU-DS04-2018-2020**: Cybersecurity in the Electrical Power and Energy System (EPES): an armour against cyber and privacy attacks and data breaches (IA).

Reference to other areas of the H2020 work-programme, with potential interest for the workshop participants, related to:

- Artificial Intelligence and security: providing a balanced assessment of opportunities and challenges for Law Enforcement in Europe;
- Prevention, detection, response and mitigation of combined physical and cyber threats to critical infrastructure in Europe.

See more

"DEFEND - Data Governance Framework for Supporting GDPR", Luis Miguel Campos (PDMFC)

GDPR entered into force in May 2018 for enhancing user data protection. Even though GDPR leads towards a radical change with many advantages for the data subjects it turned out to be a significant challenge. Organizations need to make

long and complex changes for the personal data processing activities to become GDPR compliant. Citizens as data subjects are empowered with new rights, which however they need to become aware of and understand. The aim of the Data govErnance For supportiNg gDpr (DEFeND) EU Project is to deliver a platform comprising tools that assist to comply with the GDPR, such as tools for consent management, privacy impact analysis, and data breach management.

Focus on the main challenges posed for organizations by the GDPR, how DEFeND contributes to addressing them and the current status and roadmap of future activities.

See more

"The POSEIDON Dashboard for Privacy and Digital Protection", Joris Van Rooij (JIBE)

Overview on how the PoSeID-on dashboard tries to become an accessible place for data subjects to exercise their GDPR-derived rights.

Focus on the requirements from both a user and a technical perspective; discussion about the approach and sneak peek into the current state of the implementation.

See more

"ATENA - Anomaly Detection and Risk Assessment in Critical Infrastructures", Tiago Cruz (U. Coimbra)

Over the recent years, automation systems adopted in Critical Infrastructures (CI) have been evolving towards an IoT-centric paradigm, encompassing an increasing number of interconnected distributed devices, sensors and actuators, often widely dispersed in the field. This trend has contributed to expand the boundaries (and also the scale) of the sensor and control infrastructures well beyond the monolithic and contained premises model, deployed on geographically constrained spaces under the responsibility of a single operator. These requirements pose a considerable challenge, especially in terms of security, as there is no one-size-fits-all solution capable of coping with the increasing scale and diverse needs of CI operators. This constitutes the core contribution of the ATENA H2020 project (https://www.atena-h2020.eu/), which has developed an Intrusion and Anomaly Detection System (IADS) based on the concept of data-driven security.

Presentation of the IADS architecture, with a particular focus on the core big-data security event management and the distributed event transport and pre-processing subsystems, as well the platform support for audit compliance and forensics activities.

See more

"PAPAYA - Privacy-Preserving Data Analytics", Melek Önen, (EURECOM)

With the recent advances in information technology, organisations are able to apply data analytics techniques over the data collected from clients' smart devices and derive valuable information with the goal of improving their place in the

market. Nevertheless, the data that is being analyzed and processed usually contains sensitive information (such as health information or business confidential information) that may endanger clients' privacy. With the European General Data Protection Regulation (GDPR) and the ePrivacy Regulation, there is a strong need for technological means to protect individuals' privacy and to extract meaningful and useful information out of the collected data, at the same time. With this aim, the goal of PAPAYA is to design and develop a platform regrouping new privacy preserving data analytics modules that employ advanced cryptographic techniques.

Overview of the PAPAYA modules and presentation of some real-world scenarios that can leverage them.

See more

"Risk Management and Data Analysis in POSEIDON", Paulo Silva and Rui Casaleiro (U. Coimbra)

The PoSeID-on platform aims to deliver a secure and privacy enhancing solution for the management of Personal Identifiable Information (PII). PoSeIDon provides data subjects with a central hub from which they can manage access to their personal data across several services and organizations. In addition, services collecting or processing personal data are provided with a set of tools allowing them to easily access and share personal data between themselves in a GDPR compliant way. The introduction of such platform brings a new challenge to light: How can we ensure that the tools provided, with all the conveniences and facilitations they introduce, are not exploited by data processors with malicious intent?

Focus on the approach taken by PoSeID-on to minimize this risk and ensure the privacy of data subjects.

See more

"The ATMOSPHERE Approach Towards Trustworthy Cloud Services", Marco Vieira (U. Coimbra)

ATMOSPHERE (Adaptive, Trustworthy, Manageable, Orchestrated, Secure, Privacy-assuring, Hybrid Ecosystem for REsilient Cloud Computing) is an ongoing effort that intends to provide a framework and platform to enable the implementation of next generation trustworthy and resilient cloud services on top of an intercontinental hybrid and federated resource pool. The framework considers a broad spectrum of trustworthiness properties and their measures, with a strong focus on security and privacy. The platform supports the development, build, deployment, measurement and evolution of trustworthy cloud resources, data management services and data processing services.

See more