

## SERICS - SPOKE 6

# SECOND SOFTWARE AND PLATFORM SECURITY WORKSHOP

26-28 June 2025

Auditorium Danilo Mainardi, Alfa building  
Scientific Campus, Ca' Foscari University, Mestre (VE)

### 26 June 2025

13.00 - 14.30 Light lunch

#### 14.30 - 15.30 **SESSION 1**

Introduction (chair: **Riccardo Focardi**)

14.30 - 14.45 **Riccardo Focardi** (UNIVE): *Welcome and Introduction*

14.45 - 15.30 **Gabriele Costa** (IMT), **Flaminia Luccio** (UNIVE): *Overview of activities and results*

15.30 - 16.00 Coffee break

#### 16.00 - 17.30 **SESSION 2**

**SWOPS WP1: Core Programming Languages**

**Marino Miculan** (UNIVE/UNIUD): *Attribute-based Communication over Pub/Sub: Transactional Coordination for Smart Systems*

**Francesco Tiezzi** (UNIFI): *An Algorand-based Approach for Flexible Execution of BPMN Choreographies*

**Matteo Busi** (UNIVE): *Strands Rocq: Why is a Security Protocol Correct, Mechanically?*

**Alvise Spanò** (UNIVE): *Resource-aware Programming for the Algorand blockchain*

### 27 June 2025

9.00 - 10.30 **SESSION 3**

**SCAI WP2: Security Testing for Programs**

**Andrea De Lucia** (UNISA): *Exploiting Cross-Social APIs for Personal Information Reconstruction: Assessing Password Strength and Authentication Vulnerabilities with Generative Models*

**Giovanni Denaro** (UNIMIB): *Advances in test generation via the combination of static and dynamic analysis*

**Vincenzo Riccio** (UNIUD): *Innovative fuzz testing techniques*

**Manuela Flores** (UNIMOL): *Security through Verification of Programs and Vulnerabilities in Code Language Models*

10.30 - 11.00 Coffee break

#### 11.00 - 12.30 **SESSION 4**

**SCAI WP3: Software Security and Protection**

**Davide Bresolin** (UNIPD): *Security and Privacy of mobile apps and devices*

**Federica Paci** (UNIVR): *Can LLM help with vulnerability detection?*

**Massimo Villari** (UNIME): *Robust Federated Aggregation via Client Truthfulness Scoring in Edge-Driven Cybersecurity Systems*

**Arnaldo Sgueglia** (UNISANNIO): *Equivocal behaviors: a methodology for more transparency in software systems*

12.30 - 14.00 Lunch

#### 14.00 - 15.30 **SESSION 5**

**SWOPS WP2 and WP3: Language-Based Security Techniques and Infrastructure and Run-Time Models**

**Gabriele Costa** (IMT): *Automated Vulnerability Detection*

**Massimo Bartoletti** (UNICA): *Formal verification in Solidity and Move*

**Michele Loreti** (UNICAM): *Specification and Monitoring of Global and Local Security Properties with CyTL*

**Gian Luigi Ferrari** (UNIPR): *A multifaceted approach to Secure Software and Platforms*

15.30 - 16.00 Coffee break

#### 16.00 - 17.30 **SESSION 6**

**SCAI WP1: Securing the Software Process**

**Giuseppe Desolda** (UNIBA): *Protecting users against phishing and malware attacks*

**Nicolò Gianmauro Totaro** (UNISALENTO): *Cyber Risk Assessment Framework*

**Giampaolo Bella and Mario Raciti** (UNICT): *Cybersecurity threat elicitation under human-artificial intelligence sources of risk*

**Giuseppe Antonio Di Luna** (UNIROMA1): *Binary Code Models: Design and Resilience*

17.30 - 18.00 Discussion

19.00 - 21.00 Social Dinner

### 28 June 2025

9.30 - 10.30 **SESSION 7**

**Industrial research**

**Cristiana Degano** (Nextage): *the APPLICARE Project*

**Simone Stoppa** (Nextage): *Static and dynamic analysis of a web application*

**Alessandro Costantino** (Stackhouse): *Secure by design web applications in Flower*

**Q&A and discussion**

10.30 - 11.00 Coffee break

#### 11.00 - 12.30 **SESSION 8**

**Tool demo/tutorial**

**Matteo Busi** (UNIVE): *StrandsRocq Tool Demo: Why is a Security Protocol Correct, Mechanically?*

**Gabriele Costa** (IMT): *Malware classification through symbolic execution*

**Enrico Lipparini** (UNICA): *Verification of game theoretic properties of smart contracts*

**Letterio Galletta** (IMT): *IoT:Poker: Checking Information Flow in Cloud-based IoT Access Control Policies*

12.30 - 13.30 Closing and aperitif