

# IPICS 2024

Co-organized by CybersecPro and CybAlliance

A PRACTICAL CYBERSECURITY AND EMERGENT TECHNOLOGIES CONTINUUM TRAINING EVENT

Polytechnic Institute of Management and Technology (ISLA) in Vila Nova de Gaia

From July 1st to July 13th

|          | SUN<br>30/06/24 | MON<br>01/07/24   | TUE<br>02/07/24   | WED<br>03/07/24   | THU<br>04/07/24   | FRI<br>05/07/24  | SAT<br>06/07/24  |
|----------|-----------------|---|---|---|---|--|------------------|
| CONCEPTS | 8.30 - 9.00     | Welcome Session<br>Presentation of the CyberSecPro and CybAlliance projects   |   |   |   |  |                  |
|          | 9.00 - 10.30    | Speakers<br>KA<br>Introduction to Cybersecurity I<br>Steven Furnell<br>(University of Nottingham)   | Social Engineering<br>Edgar Weippl<br>(University of Vienna)  | Cybersecurity for the Critical Sectors<br>Pareeh Rathod<br>(Laurea University of Applied Sciences)              | Risk Management and Security Training in the Healthcare Domain<br>Aida Akbarzadeh<br>(Norwegian University of Science and Technology)                       | Data security and privacy in emerging scenarios<br>Pierangela Samarati<br>(Università degli Studi di Milano) | First Hackathon  |
|          | 10.30 - 11.00   | Cybersecurity Essentials Management   | Human Aspects of Cybersecurity  | Cybersecurity Essentials Management   | Cybersecurity Essentials Management   | Privacy and Data Protection Technologies   |                  |
| Hands-On | 11.00 - 12.30   | Speakers<br>KA<br>Introduction to Cybersecurity II<br>Steven Furnell<br>(University of Nottingham)  | Establishing training and awareness programs for enhancing cyber security preparedness with applications in critical infrastructures and healthcare<br>Vasileios Gkioulos<br>(Norwegian University of Science and Technology) | Network Security & Health<br>Dimitra Sialli<br>(ITML)   | Cybersecurity Threats, Risks, Incident and Crisis Management<br>Stylianios Karagiannis<br>(PDM)<br>Pareeh Rathod<br>(Laurea University of Applied Sciences) | Security concerns on 5G and Risk Mitigations<br>João Sardinha<br>(PDM)                                       | Second Hackathon |
|          | 12.30 - 14.00   | Lunch   | Cybersecurity Policy, Process and Compliance  | Network and Communication Security  | Cybersecurity Risk Management and Governance  | Cybersecurity Risk Management and Governance   |                  |
|          | 14.00 - 15.30   | Speakers<br>KA<br>Trustworthy AI and CPSs: An Health Care example<br>Georgios Kavallieratos<br>(Norwegian University of Science and Technology) | Cyber Security Risk Management<br>Shareeful Islam<br>(SLC)  | Alerting, Reporting & Monitoring Strategies for Cybersecurity in the Energy Sector<br>Dimitra Sialli<br>(ITML)  | OSINT Hands-On<br>Nuno Mateus-Coelho<br>(Lusófona University)   | Introduction to LINDDUN framework<br>Thanos Papaioannou<br>(Ionian University)                               | Third Hackathon  |
|          | 15.30 - 16.00   | Cybersecurity Threat Intelligence Management  | Cybersecurity Risk Management and Governance  | Incident Response   | Cybersecurity Tools and Technologies  | Privacy and Data Protection Technologies   |                  |
| Hands-On | 16.00 - 17.30   | Speakers<br>KA<br>Privacy by Design<br>Christos Kalloniatis<br>(University of the Aegean)   | Cybersecurity Stack: Fundamental Software Tools<br>Stylianios Karagiannis<br>(PDM)  | Software Security Concepts<br>Pinelopi Kyranoudi<br>(Technical University of Crete)<br>George Kialafas<br>(MAG) | Malware Analysis and Threat Hunting<br>Stylianios Karagiannis<br>(PDM)  | Detection Engineering on a Cyber Range<br>Christos Lazaridis<br>(Focal Point)                                | Fourth Hackathon |
|          | Evening         | Registration<br>Student<br>Welcome  | Cybersecurity Tools and Technologies  | Cybersecurity Risk Management and Governance  | Cybersecurity Tools and Technologies  | Cybersecurity Threat Intelligence Management   |                  |
|          |                 |   |   | Social Event I  |   |  |                  |

|          | SUN<br>07/07/24 | MON<br>08/07/24   | TUE<br>09/07/24  | WED<br>10/07/24  | THU<br>11/07/24  | FRI<br>12/07/24   | SAT<br>13/07/24                     |
|----------|-----------------|---|--|--|--|---|-------------------------------------|
| CONCEPTS | 9.00 - 10.30    | Speakers<br>KA<br>Introduction to cryptography<br>Bart Preneel<br>(KU Leuven)                     | An overview of cybersecurity in the energy sector<br>Cristina Alcaraz<br>(University of Malaga)                                      | Cybersecurity Insurance Framework I<br>Aggeliki Tsochou<br>(Ionian University)             | Identity and Access Management I<br>Günther Pernul<br>(University of Regensburg)<br>Ludwig Fuchs<br>(Nessus)                                     | From Threat Models to penetration testing plans: A Health Care use case<br>Ahmed Walid Amro<br>(Norwegian University of Science and Technology) | Second Hackathon                    |
|          | 10.30 - 11.00   | Cybersecurity Tools and Technologies  | Cybersecurity Essentials Management  | Cybersecurity Risk Management and Governance   | Cybersecurity Policy, Process and Compliance   | Penetration Testing   |                                     |
| Hands-On | 11.00 - 12.30   | Speakers<br>KA<br>Cryptography and blockchain<br>Bart Preneel<br>(KU Leuven)                      | Social engineering and human factors<br>Stylianios Karagiannis<br>(PDM)<br>Ricardo Lugo<br>(ITALTECH)<br>Kitty Kiosaki<br>(TRUSTLIO) | Cybersecurity Insurance Framework II<br>Aggeliki Tsochou<br>(Ionian University)            | Identity and Access Management II<br>Günther Pernul<br>(University of Regensburg)<br>Ludwig Fuchs<br>(Nessus)                                    | Cybersecurity in Emerging Technologies, Controls and Network Security<br>Pareeh Rathod<br>(Laurea University of Applied Sciences)               | Second Hackathon                    |
|          | 12.30 - 14.00   | Lunch   | Human Aspects of Cybersecurity   | Cybersecurity Risk Management and Governance   | Cybersecurity Policy, Process and Compliance   | Penetration Testing   |                                     |
|          | 14.00 - 15.30   | Speakers<br>KA<br>Memory corruption Mechanics I<br>Elias Athanasopoulos<br>(University of Cyprus) | Memory corruption Mechanics II<br>Elias Athanasopoulos<br>(University of Cyprus)   | Practical examples of using LINDDUN framework<br>Thanos Papaioannou<br>(Ionian University) | Hands-on Identity and Access Management<br>Günther Pernul<br>(University of Regensburg)<br>Ludwig Fuchs<br>(Nessus)                              | Pentesting Systems Hands-On<br>Nuno Mateus-Coelho<br>(Lusófona University)  | Second Hackathon                    |
|          | 15.30 - 16.00   | Cybersecurity Tools and Technologies  | Cybersecurity Tools and Technologies   | Privacy and Data Protection Technologies   | Cybersecurity Policy, Process and Compliance   | Penetration Testing   |                                     |
| Hands-On | 16.00 - 17.30   | Speakers<br>KA<br>Cryptography in Practice<br>Bart Preneel<br>(KU Leuven)                         | Cascading Effects in Complex Health Networks<br>Stefan Schauer<br>(Austrian Institute of Technology)                                 | RxB Cyber security management game<br>Michelle Lind Ostrup<br>(SDI)                        | AI and Cybersecurity<br>Stylianios Karagiannis<br>(PDM)<br>Danijela Bobetic-Krsticov<br>(University of Novi-Sad)<br>Nektaria Kaloudi<br>(SINTEF) | Advanced Cybersecurity Stack: Mastering Key Software Tools<br>Stylianios Karagiannis<br>(PDM)   | Second Hackathon                    |
|          | Evening         | Cybersecurity Tools and Technologies  | Human Aspects of Cybersecurity   | Cybersecurity Essentials Management  | Cybersecurity Tools and Technologies   | Cybersecurity Tools and Technologies  |                                     |
|          |                 |   |  | Social Event II  |  |   | IPICS EVALUATION AND AWARD CEREMONY |

Co-organized by:

