

## Timetable of Summer School "Security of Things" - SeThi - in Rostock

|               | 24.08.2020<br>Monday  | 25.08.2020<br>Tuesday   | 26.08.2020<br>Wednesday  | 27.08.2020<br>Thursday  | 28.08.2020<br>Friday  | 29.08.2020<br>Saturday | 30.08.2020<br>Sunday |
|---------------|---|---|--|---|---|------------------------|----------------------|
|               | Welcome, Introduction,<br>Talk 1 / Group work   | Talk 2,3 & 4  | Talk 5 & 6<br>Group work   | Talk 7, 8 & 9   | Talk 10, 11 & 12  |                        |                      |
| 9:00 - 10:30  | Welcome Rector,<br>Opening and greetings,<br>Short introduction of participants<br>and lecturers<br>Keynote: Alexander Norta<br>[TalTech]           | <i>Simeon Wiedenmann [UR]</i> Revising Some<br>Computer Security<br>Basics (Part 1) | <i>Thomas Mundt [UR]</i><br>Security Aspects of<br>KNX, LoRaWAN, Z-<br>Wave and Similar<br>Protocols | <i>Johann Bauer [UR]</i><br>Hacking the DDC4200<br>Controller: Theoretical<br>Background for the Workshop | <i>Johannes Goltz [UR]</i><br>Risk Analysis for Building<br>Automation Systems  |                        |                      |
| 10:30 - 11:00 | Break   | Break   | Break  | Break   | Break   |                        |                      |
| 11:00- 12:30  | <i>Clemens H. Cap [UR]</i> Introduction<br>to the summer school SeThi and<br>SCADA Systems as Security<br>Challenge;<br>Distribution of group tasks | <i>Clemens H. Cap [UR]</i><br>Revising Some<br>Computer Security<br>Basics (Part 2) | <i>Andreas Zdziarstek [UR]</i><br>The Physical Layer in<br>Field Bus Systems                         | <i>Simeon Wiedenmann [UR]</i><br>Comparison of Fieldbus Systems<br>and Protocols                          | <i>Simeon Wiedenmann [UR]</i> Ethics of Hacking -<br>Attack Vectors,<br>Penetration Testing and<br>the disclosure of<br>vulnerabilities |                        |                      |
| 12:30 - 13:30 | Lunch Break   | Lunch Break   | Lunch Break  | Lunch Break   | Lunch Break   |                        |                      |
| 13:30- 15:00  | Preparation of group tasks and<br>consultation to the lecturers   | <i>Thomas Mundt [UR]</i><br>Introduction to the KNX<br>Bus System                   | Preparation of group<br>tasks and consultation<br>to the lecturers                                   | <i>Johannes Goltz [UR]</i><br>Forensic Analysis in KNX Log<br>Data  | <i>Thomas Mundt [UR]</i><br>How We Found Out Who<br>Refuses to Wash Hands:<br>A Case Study on Privacy                                   |                        |                      |
| 15:00- 15:30  | Coffee Break  | Coffee Break  | Coffee Break   | Coffee Break  | Coffee Break  |                        |                      |
| 15:30 - 17:00 |   |   |  |   |   |                        |                      |
| Evening       | Icebreaking Game  | Cultural Night: India   | Cultural Night: Iran   | Cultural Night: United Kingdom  | Virtual Geocaching  |                        |                      |

## Timetable of Summer School "Security of Things" - SeThi - in Rostock

|               | 31.08.2020<br>Monday  | 01.09.2020<br>Tuesday  | 02.09.2020<br>Wednesday   | 03.09.2020<br>Thursday  | 04.09.2020<br>Friday   | 05.09.2020<br>Saturday | 06.09.2020<br>Sunday   |
|---------------|---|--|---|---|--|------------------------|--|
|               | Workshops (parallel)  | Talk 13, 14 & 15,<br>Group work  | Talk 16 & 17, Partners  | Workshops (parallel)  | Talk 18 & 19, Group presentations  |                        |  |
| 09:00 - 10:30 | <b>Workshop 1 - Group 1</b><br>Mobile Demonstrator of a KNX Bus Installation<br><b>Workshop 2 - Group 2</b><br>Penetration Testing with an Industrial controller<br><b>Workshop 3 - Group 3</b> | <i>Clemens H. Cap [UR]</i><br>Privacy and Data Protection                                    | <i>Jens Krüger [LKA M-V]</i><br>Forensic analysis of IoT devices and field busses | <b>Workshop 1 - Group 3</b><br>Mobile Demonstrator of a KNX Bus Installation<br><b>Workshop 2 - Group 4</b><br>Penetration Testing with an Industrial controller<br><b>Workshop 3 - Group 1</b> | <i>Klaus-Uwe-Fehlauer [HSW]</i> Operators responsibility in building business                  |                        | Abbreviations:<br>UR - University of Rostock<br><br>LKA M-V - Landes-kriminalamt Mecklenburg-Vorpommern<br><br>HSW - Hochschule Wismar<br><br>UB - Universität Bremen<br><br>TaTech - TU Tallinn |
| 10:30 - 11:00 | Analysis of KNX-bus Log Data<br><b>Workshop 4 - Group 4</b>   | Break  | Break   | Analysis of KNX-bus Log Data<br><b>Workshop 4 - Group 2</b>   | Break  |                        |  |
| 11:00 - 12:30 | Measurements on the Physical Layer of the KNX-bus   | <i>Clemens H. Cap [UR]</i><br>Architecture and Technologies for Privacy                      | <i>Peter Wickboldt [UR]</i><br>Challenges for Managing a University Campus        | Measurements on the Physical Layer of the KNX-bus   | <i>Thomas Kemmerich [UB]</i><br>Communication Security in distributed critical infrastructures |                        |  |
| 12:30 - 13:30 | Lunch Break   | Lunch Break  | Lunch Break   | Lunch Break   | Lunch Break  |                        |  |
| 13:30 - 15:00 | <b>Workshop 1 - Group 2</b><br>Mobile Demonstrator of a KNX Bus Installation<br><b>Workshop 2 - Group 3</b><br>Penetration Testing with an Industrial controller                                | <i>Darshit Pandya [UR]</i><br>Modeling field bus networks and model-driven security analysis | Guest lecture from industry partners: Alexander Gladisch [T-Systems]              | <b>Workshop 1 - Group 4</b><br>Mobile Demonstrator of a KNX Bus Installation<br><b>Workshop 2 - Group 1</b><br>Penetration Testing with an Industrial controller                                | Presentations of group tasks   |                        |  |
| 15:00 - 15:30 | <b>Workshop 3 - Group 4</b>   | Coffee Break   | Coffee Break  | <b>Workshop 3 - Group 2</b>   | Break  |                        |  |
| 15:30 - 17:00 | Analysis of KNX-bus Log Data<br><b>Workshop 4 - Group 1</b><br>Measurements on the Physical Layer of the KNX-bus  | Preparation of group tasks and consultation to the lecturers                                 | Michael Paulus [UR]<br>Study and Research in Germany                              | Analysis of KNX-bus Log Data<br><b>Workshop 4 - Group 3</b><br>Measurements on the Physical Layer of the KNX-bus  | Feedback, evaluation and conclusion  |                        |  |
| Evening       | Cultural Night: Albania   | Cultural Night: Ukraine  | Cultural Night: Germany   | Cultural Night: Lithuania   | Virtual Quiz   |                        |  |