

# ISSRE 2022 Preliminary Program

## On-site program

### Monday October 31

| Local Time (EDT) | Room 1                 | Room 2  | Room 3  | Room 4  |
|------------------|------------------------|---|---|---|
|                  | New Faculty Symposium  | 1st Workshop on Assured Autonomy, Artificial Intelligence and Machine Learning (WAAM) | 7th Workshop on Resiliency, Security, Defenses and Attacks (RSDA) | 12th Workshop on Software Certification (WoSoCer) |
| 8:25 - 8:30      | Welcome & Introduction |   |   |   |
| 8:30 - 10:00     | NFS 1                  | WAAM 1  | RSDA 1: Keynote   | WoSoCer 1: Keynote                                |
| 10:00 - 10:30    | Coffee Break           |   |   |   |
| 10:30 - 11:00    | NFS 2                  | WAAM 2  | RSDA 2  | WoSoCer 2   |
| 12:00 - 13:30    | Lunch                  |   |   |   |
| 13:30 - 15:00    | NFS 3                  | WAAM 3  | RSDA 3  | WoSoCer 3   |
| 15:00 - 15:30    | Coffee Break           |   |   |   |
| 15:30 - 17:00    |                        | WAAM 4  |   |   |
| 18:00 - 20:00    | Reception              |   |   |   |

### Tuesday November 1

| Local Time (EDT) | Room 1  | Room 2  |  |  |
|------------------|---|---|--|--|
| 8:30 - 9:00      | Welcome & Opening                               |   |  |  |
| 9:00 - 10:00     | Keynote 1: Tim Menzies                          |   |  |  |
| 10:00 - 10:30    | Coffee Break                                    |   |  |  |
| 10:30 - 12:00    | Research Track: Best Paper Candidates           |   |  |  |
| 12:00 - 13:30    | Lunch   |   |  |  |
| 13:30 - 15:00    | Research Track 1: Autonomous Systems            | Industry Track 1: Security and Vulnerability Analysis |  |  |
| 15:00 - 15:30    | Coffee Break                                    |   |  |  |
| 15:30 - 17:00    | Research Track 2: Machine Learning for Security | Research Track 3: Error Handling & Fast Abstract      |  |  |
| 18:00 - 20:00    | Reception (Test-of-Time Award)                  |   |  |  |

### Wednesday November 2

| Local Time (EDT) | Room 1  | Room 2   |  |  |
|------------------|---|--|--|--|
| 9:00 - 10:00     | Keynote 2   |  |  |  |
| 10:00 - 10:30    | Coffee Break                                      |  |  |  |
| 10:30 - 12:00    | Industry Track: Best Paper Candidates             |  |  |  |
| 12:00 - 13:30    | Lunch   |  |  |  |
| 13:30 - 15:00    | Research Track 4: Autonomous Systems 2            | Industry Track 2: Software Quality Improvement |  |  |
| 15:00 - 15:30    | Coffee Break                                      |  |  |  |
| 15:30 - 17:00    | Research Track 5: Functional and Security Testing | Tutorial: Pete Rotella                         |  |  |
| 18:00 - 20:00    | Banquet   |  |  |  |

### Thursday November 3

| Local Time (EDT) | Room 1                                | Room 2                             |  |  |
|------------------|---------------------------------------|------------------------------------|--|--|
| 9:00 - 10:00     | Keynote 3                             |                                    |  |  |
| 10:00 - 10:30    | Coffee Break                          |                                    |  |  |
| 10:30 - 12:00    | Research Track 6: Models and Analysis | Industry Track 3: Cloud and DevOps |  |  |
| 12:00 - 13:30    | Lunch                                 |                                    |  |  |
| 13:30 - 15:00    | Closing & Business Meeting            |                                    |  |  |

## Online program

### Sunday October 30

| Local Time (EDT) | CST (UTC+8)   | CET (UTC+1)  |  |  |  |
|------------------|---------------|--------------|--|--|--|
|                  |               |              | 2nd Workshop on Reliability of Autonomous Intelligent Systems (RAIS) |  |  |
| 20:40 - 21:00    | 8:40 - 9:00   | 1:40 - 2:00  | RAIS Opening   |  |  |
| 21:00 - 24:00    | 9:00 - 12:00  | 2:00 - 5:00  | RAIS 1   |  |  |
| 2:00 - 6:00      | 14:00 - 18:00 | 7:00 - 11:00 | RAIS 2   |  |  |

### Monday October 31

| Local Time (EDT) | CST (UTC+8) | CET (UTC+1) |   |   |   |  |
|------------------|-------------|-------------|---|---|---|--|
|                  |             |             | Doctoral Symposium  | 14th Workshop on Software Aging and Rejuvenation (WoSAR)  | 6th Workshop on Software Faults & 4th Workshop on Software Hardware Interaction Faults (IWSF&SHIFT) | 2nd Workshop on Safety and Security of Software Using Machine Learning in Cyber-physics System (SSSML) |
| 8:30 -           | 20:30 -     | 13:30 -     | 8:30 - 9:30 Opening & Keynote<br>9:30 - 10:30 Student Presentations<br>10:45 - 12:10 Panel & Networking | 8:50 - 9:40 Opening & Keynote<br>9:40 - 10:40 Paper presentations<br>10:40 - 11:20 Keynote<br>11:20 - 13:00 Paper presentations | 9:00 - 9:55 Opening & Keynote<br>9:55 - 13:00 Paper sessions  | 8:30 - 10:00 Paper presentations   |

### Tuesday November 1

| Local Time (EDT) | CST (UTC+8)   | CET (UTC+1) |   |   |  |  |
|------------------|---------------|-------------|---|---|--|--|
| 20:00 - 21:00    | 8:00 - 9:00   | 1:00 - 2:00 | Research Track 7: Fault Injection                       | Research Track 8: Software Evolution and Re-engineering | Fast Abstract 1: System Security and Reliability |  |
| 21:00 - 22:00    | 9:00 - 10:00  | 2:00 - 3:00 | Research Track 9: Anomaly Detection and Data generation | Research Track 10: Program Analysis                     |  |  |
| 22:00 - 23:00    | 10:00 - 11:00 | 3:00 - 4:00 | Research Track 11: Software Testing 1                   | Industry Track 4: Security and Vulnerability Analysis 2 |  |  |

### Wednesday November 2

| Local Time (EDT) | CST (UTC+8)  | CET (UTC+1) |   |   |  |  |
|------------------|--------------|-------------|---|---|--|--|
| 20:00 - 21:00    | 8:00 - 9:00  | 1:00 - 2:00 | Research Track 12: Software Testing 2                         | Research Track 13: Software Aging and Monitoring    | Fast Abstract 2: Testing, Fuzzing and Others |  |
| 21:00 - 22:00    | 9:00 - 10:00 | 2:00 - 3:00 | Research Track 14: Fault Localization and Root Cause Analysis | Research Track 15: Reliability of AI-based Software |  |  |

### Thursday November 3

| Local Time (EDT) | CST (UTC+8)   | CET (UTC+1)   |                                      |                                      |  |  |
|------------------|---------------|---------------|--------------------------------------|--------------------------------------|--|--|
| 10:30 - 12:00    | 22:30 - 24:00 | 15:30 - 17:00 | Industry Track 5: Cloud and DevOps 2 | J1C2 & Test-of-Time Award Runners-Up |  |  |