

**QRS 2019 Session Schedule (Version IV/Revised on July 15th, 2019)**

Monday, July 22, 2019		
08:00 – 09:00	Registration	Foyer Aula
09:00 – 12:00	<ul style="list-style-type: none"> <li>• T1: An Introduction to Belief Reliability Theory Professor Rui Kang (Beihang University, China) Professor Xiaoyang Li (Beihang University, China)</li> <li>• T3: Using Software Development Artifacts to Improve the Software Development Process Dr. Shannon Connors (JMP division of SAS, USA) Dr. Joseph Morgan (JMP division of SAS, USA)</li> <li>• T5: Securing Enterprise Platforms: Low Cost High Impact Controls and Why You Also Need a Next Generation Security Strategy Gabe Dimeglio (Rimini Street Inc., USA)</li> </ul>	<p>Hall 1 (Room 10)</p> <p>Hall 2 (Room 235)</p> <p>Room 224</p>
12:30 – 13:30	Lunch Break	Restaurant
13:30 – 16:30	<ul style="list-style-type: none"> <li>• T2: Database Secure Coding and Design Robert P. Lockard (Oraclewizard.com, Inc., USA)</li> <li>• T4: Coverage-Based Automated Testing and Debugging Professor Rui Abreu (University of Lisbon, Portugal) Professor Bruno Lima (University of Porto, Portugal)</li> </ul>	<p>Room 224</p> <p>Hall 1 (Room 10)</p>

Tuesday, July 23, 2019		
08:00 – 09:00	Registration	Foyer Aula
09:00 – 09:15	<p>Opening Ceremony</p> <ul style="list-style-type: none"> <li>• General Chairs <ul style="list-style-type: none"> <li>– Krassen Stefanov (University of Sofia, Bulgaria)</li> <li>– Rui Kang (Beihang University, China)</li> </ul> </li> <li>• Welcome Remarks <ul style="list-style-type: none"> <li>– Krasimir Valchev Minister of Education and Science, Republic of Bulgaria</li> <li>– Anastas Gerdjikov Rector of Sofia University, Bulgaria</li> </ul> </li> <li>• Steering Committee Chair W. Eric Wong (University of Texas at Dallas, USA)</li> <li>• Program Chairs <ul style="list-style-type: none"> <li>– Bruce McMillin (Missouri University of Science and Technology, USA)</li> <li>– David Lo (Singapore Management University, Singapore)</li> </ul> </li> </ul>	Aula
09:15 – 10:15	<ul style="list-style-type: none"> <li>• Keynote Speech I  <i>Product-Based Research</i> David Shepherd Editor-in-Chief, Journal of Systems and Software Software Engineering Research Group, ABB Corporate Research, USA</li> </ul>	Aula
10:15 – 10:35	Coffee Break	Restaurant
10:35 – 12:15	<ul style="list-style-type: none"> <li>• Session I-A: Fault Localization and Prediction</li> <li>• Session I-B: Random and Combinatorial Testing</li> <li>• Session I-C: Reliability Analysis</li> <li>• Session I-D: Software Maintenance</li> <li>• Session I-E: Industry Track</li> <li>• Session I-F: Data-Driven System Quality Assurance I (Workshop)</li> <li>• Session I-G: IEEE International Contest on Software Testing</li> </ul>	<p>Room 272</p> <p>Room 292</p> <p>Room 224</p> <p>Hall 1 (Room 10)</p> <p>Hall 2 (Room 235)</p> <p>Room 267</p> <p>Room 243</p>

12:15 – 14:00	Lunch Break Poster Session I	Restaurant
14:00 – 15:40	<ul style="list-style-type: none"> <li>• Session II-A: Bug Finding</li> <li>• Session II-B: Non-Functional Properties</li> <li>• Session II-C: Formal Method I</li> <li>• Session II-D: Trustworthy Computing (Workshop)</li> <li>• Session II-E: Model Checking and Software Testing and Verification (Workshop)</li> <li>• Session II-F: Data-Driven System Quality Assurance II (Workshop)</li> <li>• Session II-G: IEEE International Contest on Software Testing</li> </ul>	Room 272 Room 292 Room 224 Hall 1 (Room 10) Room 247  Room 267 Room 243
15:40 – 16:00	Coffee Break Poster Session II	Restaurant
16:00 – 17:40	<ul style="list-style-type: none"> <li>• Session III-A: Bug Reporting</li> <li>• Session III-B: Empirical Studies &amp; Security</li> <li>• Session III-C: Formal Method II</li> <li>• Session III-D: Cyber Resiliency: Technologies, Economics and Strategy I (Workshop)</li> <li>• Session III-E: Quality Engineering (Workshop)</li> <li>• Session III-F: Data-Driven System Quality Assurance III (Workshop)</li> <li>• Session III-G: IEEE International Contest on Software Testing</li> </ul>	Room 272 Room 292 Room 224 Room 247  Hall 1 (Room 10) Room 267 Room 243
18:00 – 19:30	Conference Reception	Restaurant

Wednesday, July 24, 2019		
08:00 – 09:00	Registration	Foyer Aula
09:00 – 10:00	<ul style="list-style-type: none"> <li>• Keynote Speech II</li> </ul> <p style="text-align: center;"><i>Software Quality and Digital Forensics</i> Barbara Guttman National Institute of Standards and Technology, USA</p>	Aula
10:00 – 10:20	Coffee Break	Restaurant
10:20 – 12:00	<ul style="list-style-type: none"> <li>• Session IV-A: Test Selection, Prioritization, and Generation</li> <li>• Session IV-B: System Testing and Validation (Workshop)</li> <li>• Session IV-C: Automated Intelligent Software Testing I (Workshop)</li> <li>• Session IV-D: Cyber Resiliency: Technologies, Economics and Strategy (Workshop)</li> <li>• Session IV-E: Automobile Software Security and Safety I (Workshop)</li> <li>• Session IV-F: Creative Lifestyle Computing I</li> <li>• Session IV-G: Introduction to Testing and AI (Tutorial)</li> </ul>	Room 272 Room 292 Room 224 Room 247  Hall 1 (Room 10) Room 267 Room 243
12:00 – 14:00	Lunch Break	Restaurant
14:00 – 15:40	<ul style="list-style-type: none"> <li>• Session V-A: Testing Specialized Software</li> <li>• Session V-B: Quality and Cost</li> <li>• Session V-C: Automated Intelligent Software Testing II (Workshop)</li> <li>• Session V-D: Cyber Resiliency: Technologies, Economics and Strategy III (Workshop)</li> <li>• Session V-E: Automobile Software Security and Safety II (Workshop)</li> <li>• Session V-F: Creative Lifestyle Computing II</li> <li>• Session V-G: Introduction to Testing and AI (Tutorial)</li> </ul>	Room 272 Room 292 Room 224 Room 247  Hall 1 (Room 10) Room 267 Room 243
15:40 – 16:00	Coffee Break	Restaurant
16:00 – 18:30	Walking Tour in Sofia	
19:00 – 22:00	Conference Banquet and Award Ceremony	„Chevermeto“ Restaurant

<b>Thursday, July 25, 2019</b>		
08:00 – 09:00	Registration	Foyer Aula
09:00 – 10:00	<ul style="list-style-type: none"> <li>• Keynote Speech III</li> </ul> <p style="margin-left: 20px;"><i>How to Achieve Global Happiness</i> Solomon Passy Atlantic Club of Bulgaria, Bulgaria</p>	Aula
10:00 – 10:20	Coffee Break	Restaurant
10:20 – 12:00	<ul style="list-style-type: none"> <li>• Session VI-A: Creative Lifestyle Computing III</li> <li>• Session VI-B: Human and Social Aspect of Software Quality I (Workshop)</li> <li>• Session VI-C: Automated Intelligent Software Testing III &amp; Quality Engineering (Workshop)</li> <li>• Session VI-D: Reliability and Resilience of Complex Systems (Workshop)</li> <li>• Session VI-E: Security, Reliability, and Resilience in Wireless Sensor Networks and Smart Grid I (Workshop)</li> <li>• Session VI-F: Software Engineering and Big Data I (Workshop)</li> </ul>	Room 267 Room 272 Room 224  Room 292 Room 247  Hall 1 (Room 10)
12:00 – 14:00	Lunch Break	Restaurant
14:00 – 15:40	<ul style="list-style-type: none"> <li>• Session VII-A: Software Engineering and Knowledge Management I (Workshop)</li> <li>• Session VII-B: Human and Social Aspect of Software Quality II (Workshop)</li> <li>• Session VII-C: Fast Abstract I</li> <li>• Session VII-D: Testing and Verification of Programmable Chips I (Workshop)</li> <li>• Session VII-E: Security, Reliability, and Resilience in Wireless Sensor Networks and Smart Grid II (Workshop)</li> <li>• Session VII-F: Software Engineering and Big Data II (Workshop)</li> </ul>	Room 292  Room 272 Room 243 Room 224  Room 247  Room 243
15:40 – 16:00	Coffee Break	Restaurant
16:00 – 17:40	<ul style="list-style-type: none"> <li>• Session VIII-A: Software Engineering and Knowledge Management II (Workshop)</li> <li>• Session VIII-B: System Reliability in Cloud Computing and Big Data (Workshop)</li> <li>• Session VIII-C: Fast Abstract II</li> <li>• Session VIII-D: Testing and Verification of Programmable Chips II (Workshop)</li> <li>• Session VIII-E: Safety and Security in Cyber-Physical Systems (Workshop)</li> </ul>	Room 292  Room 272  Room 243 Room 224  Room 247
<b>Friday, July 26, 2019</b>		
09:30 – 11:00	QRS 2019 Conclusion and 2020 Planning Meeting	