


QRS 2017
Photo Album
07/27



THE CONTEXT

iot
eclipse.org

GETTING STARTED TECHNOLOGY COMMUNITY WORKING GROUP 

Projects

Eclipse IoT open source projects help you build IoT Devices, Gateways ("Smart Objects"), Cloud backends, and more.
Use the list below to find the project that's right for you.

Start typing to filter projects.

Sort by downloads Sort by name

Devices Gateways Cloud Standards Tools Connectors Security

Eclipse Paho

The Paho project provides reliable open-source implementations of open and standard messaging protocols aimed at new, existing, and emerging applications for Machine-to-Machine (M2M) and Internet of Things (IoT). Paho reflects the consensus choice of...

Project downloads: 12.3k
Latest release: 1.2.0 (Release)

Fraunhofer FOKUS

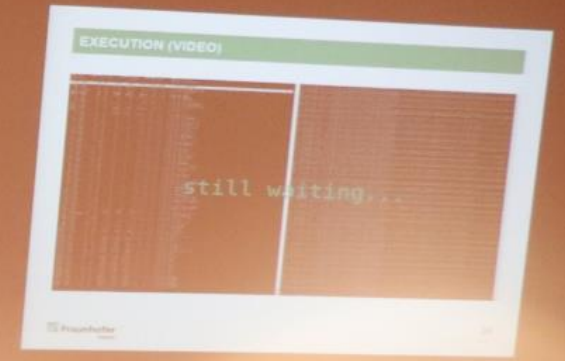
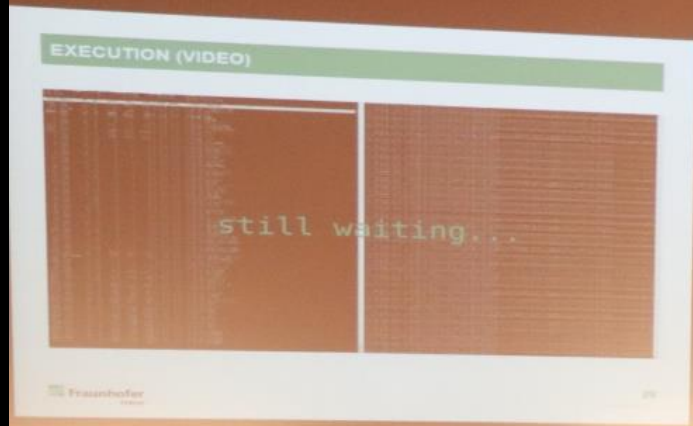
3











Thank you
for your attention!

www.fokus.fraunhofer.de
(System Quality Center)

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System Framework Design

Introduction

Development Status

System Framework

Hardware and Software

Conclusion



• Complete the implement of the equipment

• Network card driver and LwIP transplanted

• Audio driver and navigation timing module driver,

• Embedded operating system transplanted

• Hardware selection and board development



QRS 2017

George Sharkov

Council of Ministers of Bulgaria



1. **String**

String is a sequence of characters. It is a part of a string or a character array.

String literals are stored in memory as part of a string or a character array.

String literals are stored in memory as part of a string or a character array.

- `char` - Part of string
- `int` - Part of Number
- `double` - Constant
- `float` - Parameter

File Edit View Help

CS 1019 27.7.2017

Result: Processing time functions and packages



Approach	ECLIPSE
Use of function calls	5660.71
DURFEX (1-gram)	400.6 (7%)
DURFEX (2-gram)	1866.42 (32%)
DURFEX (3-gram)	4511.89 (79%)
DURFEX (4-gram)	8382.42 (148%)
DURFEX (5-gram)	13442 (237%)















Select Possible Values for Each Byte (3)

Package 1 - Byte 20

Tube 1	Tube 2	Cylinder 1	Cylinder 2	Valve 1	Valve 2
1	0	0	0	0	0
0	1	0	0	0	0
0	0	1	0	0	0
0	0	0	1	0	0
0	0	0	0	1	0
0	0	0	0	0	1
0	0	0	0	0	0
0	0	0	0	0	0
0	1	0	0	0	0
0	0	0	1	0	0
0	0	0	0	1	0
0	0	0	0	0	1

Based on the *expert knowledge*, we also want to turn on the signal lights for Tubes 1 & 2, Cylinders 1 & 2, and Valves 1 & 2 at the same time

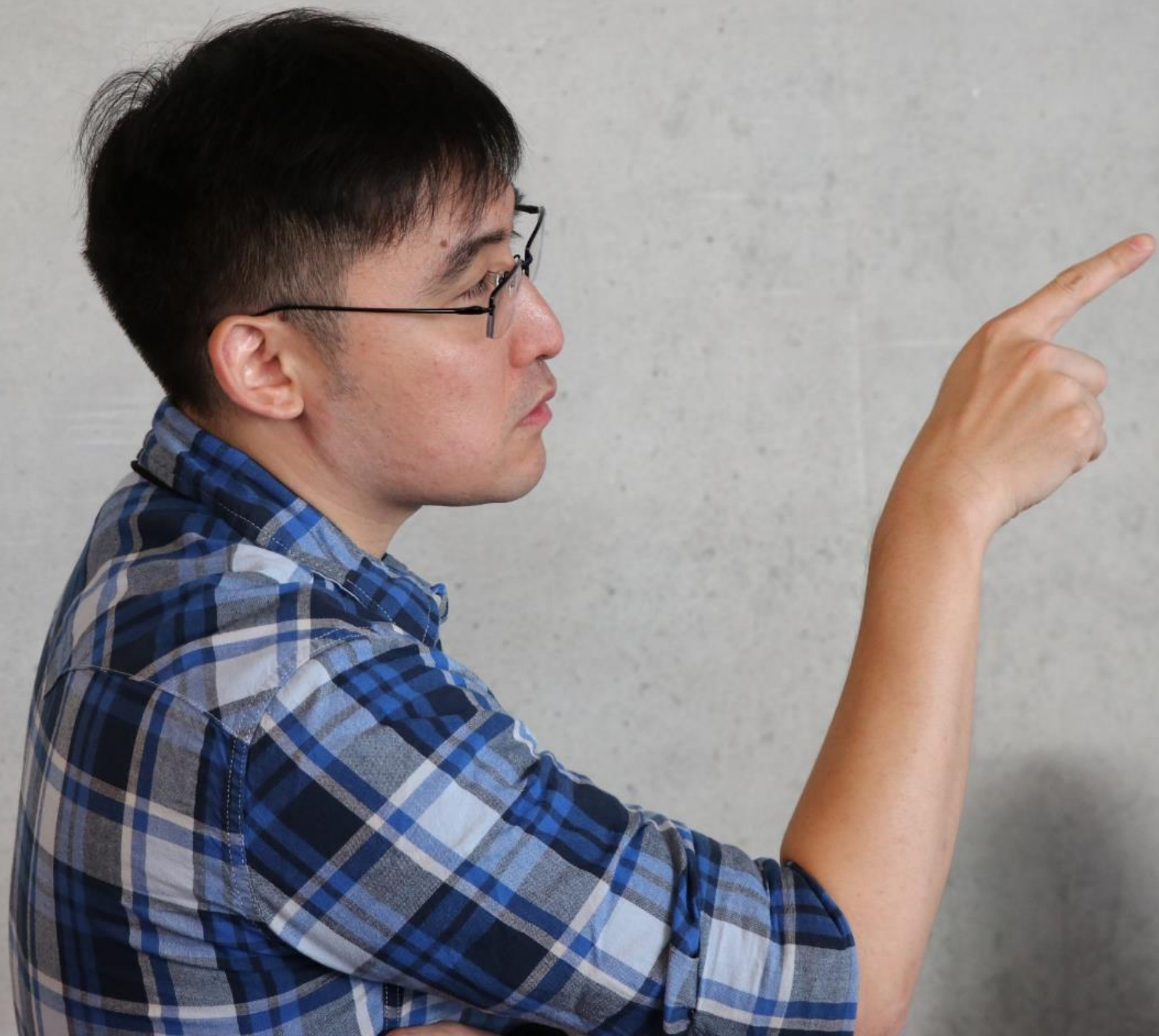
Binary → Hexadecimal

Tube 1	0010 0000	20
Tube 2	0001 0000	10
Cylinder 1	0000 1000	08
Cylinder 2	0000 0100	04
Valve 1	0000 0010	02
Valve 2	0000 0001	01
NA	0000 0000	00
Tube 1 & 2	0011 0000	30
Cylinder 1 & 2	0000 1100	0C
Valve 1 & 2	0000 0011	03

Possible values for "Package 1 - Byte 20":
20; 10; 08; 04; 02; 01; 00; 30; 0C; 03


















	Introduction
	System Model
	Detection and Acquisition
	Feature Extraction
	Conclusion

Handwritten notes on a whiteboard:

- yangke@... .id
- yangke@... .id
- 15941177212@... .com



CRE Special Panel (Thurs, 10AM, Rm 113)

- Panelists
 - Summer Fowler, CMU SEUCERT, USA
 - Larisa Breton, DoD Office of Energy, USA
 - Robert Cunningham, MIT Lincoln Lab., USA
- Panel Moderator
 - Peter Chen, CMU SEUCERT & Heinz College of IT, USA
- Special Features
 - Quick Review of 2 papers presented yesterday, more Q&A.
 - Adding new expert/ideas: R. Cunningham
 - Debates/brain-storming/open-floor discussions



- Panel Moderator
- Lana Breton, DASH Research Group
- Robert Cunningham, MIT Lincoln Lab
- Panel Moderator
- Peter Chen, CMU, 2017 F10 and 2018 F10
- Special Features
 - Quick Review of 1 paper presentation
 - Adding new users to 1 Campus
 - Debates from 2017 and 2018



Presented
2017 IEEE IN
TESTING ANI
PRAGUE, TH
JULY 28, 2017



QRS 2017
D S Raunak
Loyola University, Maryland









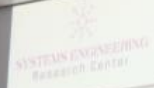




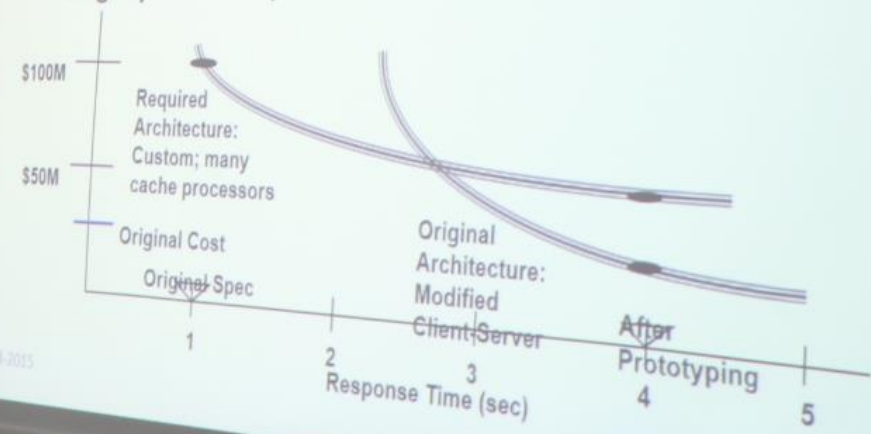


Importance of SQ Tradeoffs

Major source of DoD, other system overruns



- SQs have systemwide impact
 - System elements generally just have local impact
- SQs often exhibit asymptotic behavior
 - Watch out for the knee of the curve
- Best architecture is a discontinuous function of SQ level
 - “Build it quickly, tune or fix it later” highly risky
 - Large system example below



7-14-2015





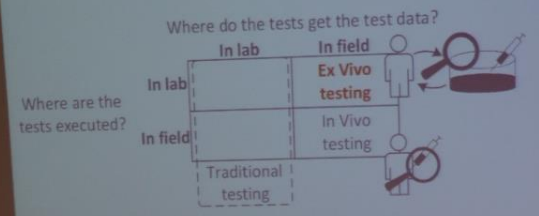
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Volkmar Lotz

SAP Labs France



Testing approaches





THE RESULTS OF AFFECTED TRACKING ALGORITHMS IN OPE

Name of Trackers	Precision Score in Original Ground-truth	Precision Score in Revised Ground-truth	AUC Score in Original Ground-truth	AUC Score in Revised Ground-truth
CSK	0.810	0.815		
DFT			0.518	0.522



...the mathematical theory of evidence, as introduced
by Dempster and extended later by Shafer, is concerned
with the question of belief in a proposition and system
of propositions.

This theory can be viewed as a generalization of the
classic probability theory. Due to its ability to handle
uncertainty or imprecision embedded in the evidence,
the D-S theory has been increasingly applied in many
fields.

Harbin Engineering University

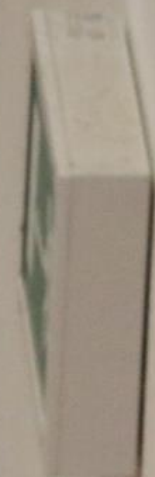




QMS 2017

Peter Churbachi

Mikailovskiy Universitet



IS QMS 2017
Lin Deng
George Mason University











Směr
Vstupní náměstí
Tram · Letná · centrum
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↑ ♿



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Community
Technology



**1ST IEEE
International
Software Testing
Contest**



Testing Contest: Runner-Up

2nd place

Marek Suchán

Technical University of
Czech Republic, Prague,

3rd place in Prize

Alexander public

University of

Joseph B. Buecher
Riverside, Canada



2nd place

Marek Suchánek

Medical University in Prague,
Czech Republic

3rd place

Alexandre Boucher

of Trois-Rivières, Canada



Germany
ogy, China
Germany
ogy, Austria
do, Spain



IEEE
The 2017 International Conference on Systems, Man, and Cybernetics (SMC 2017) The International IEEE Systems, Man, and Cybernetics Conference in Intelligent Systems, Robotics, and Automation
October 8-11, 2017
Piscataway, New Jersey, USA
SMC 2017
Fourth Place
Awarded to
Zhenyu Chen



Public Mention

Li, Guangzhou University, China

Ku, Suzhou University, China

ichter, Hasso Plattner Institute, Germany

, Dalian University of Technology, China

mbube, Hasso Plattner Institute, Germany

azl, Graz University of Technology

orán Barbón, University of Oviedo

Austria
Spain





IEEE
International Conference on Systems, Man, and Cybernetics (SMC) 2017
15th IEEE International Conference on Computational Intelligence in Bioinformatics and Bioinformatics (CIBB) 2017
15th IEEE International Conference on Computational Intelligence in Bioinformatics and Bioinformatics (CIBB) 2017
Awarded to: ...
Awarded by: ...

Hangzhou University, China

Hangzhou University, China

Hasso Plattner Institute, Germany

Hangzhou University of Technology, China

Hasso Plattner Institute, Germany

Vienna University of Technology, Austria

University of Oviedo, Spain



IEEE
The IEEE International Symposium on Information Theory (ISIT) is the premier IEEE conference in the field of information theory and its applications. It is held annually in an odd-numbered year, alternating with the International Symposium on Multiple Access (ISMA) and the International Symposium on Turbo and Iterative Codes in Digital Communications and Broadcasting (ITD/CB).
ISTC 2017
Seventh Place
GANG LI
University of Technology

Zhenyu Chen
Hangzhou University



IEEE *Innovative Society*
The IEEE International Training Center
at IEEE 301 - The Government of Chongqing, China
Software Quality, Reliability, and Security
Donglu, Chongqing, July 15-20, 2017

ISTC 2017
Ninth Place
Presented to
YANG XIAO,
City of Technology, Institute
of Information Engineering,
Chongqing University of Posts and Telecommunications,
Chongqing, China

Software Testing Contest: Honorable Mention

4th place: Wenjun Li, Guangzhou University, China

5th place: Youran Xu, Suzhou University, China

6th place: Daniel Richter, Hasso Plattner Institute,

7th place: Qiang Li, Dalian University of Technology, China

8th place: Lena Feinbube, Hasso Plattner Institute, Germany

9th place: Oliver Tazl, Graz University of Technology, Austria

10th place: Jesús Morán Barbón, Universidad de Oviedo, Spain



QRS 2017

Best Paper Award

Presented to

SOLOMON MENSAH, JACKY KEUNG,
STEPHEN G. MACDONELL, MICHAEL F.
BOSU, AND KWABENA E. BENNIN

for the paper titled

*Investigating the Significance of Bellwether
Effect to Improve Software Effort Estimation*



QRS 2011

Best Paper Award

Presented to

SOLOMON MEI

WEN G. M.

AND

for

ing the

approv



QRS 2017

Best Paper Award

Presented to

ADIMIR ŠKORJAK

AN

for

off-the

one

the paper

er titled

e-Shell

nts in C





QRS 2017

Best Paper Award

Presented to
BO JIANG, YU ZHANG, YU ZHANG,
YU ZHANG, YU ZHANG

for the paper titled
"Universal-Based
Case Generation Tech"



2 iPads
Eaton European Innovation
Center in Roztoky,
Czech Republic
&
Boxtrap spol. s
Czech Republic





ORS 2017
Dušan Mondek
Bostrap spol. s r.o.



IN Q&A DEEP

Dolan Wondol

Paper Award

presented to

PETIL, PETR ROČEK

JIŘÍ BARNAT

for the paper titled

Exceptional

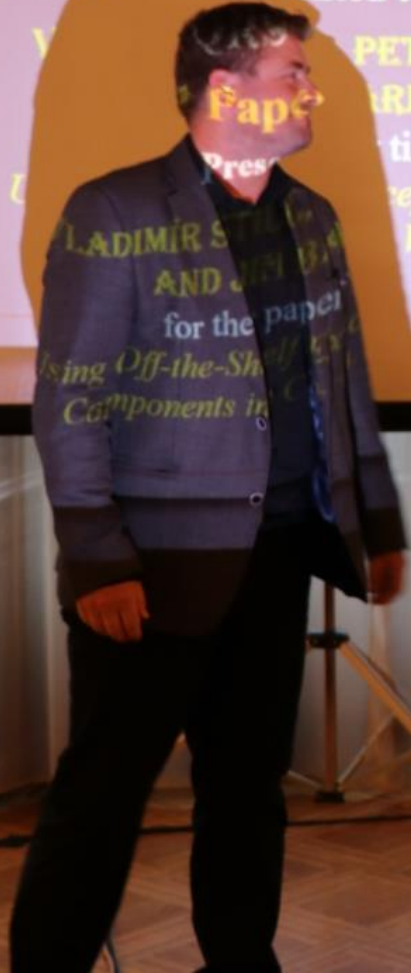
Verification

*Using Off-Chain
Commitments*





CTP 2017
Best Paper Award
Presented to
Y. LADIMIR S. AND J. J. ...
PAPERS TITLED
Using Off-the-Shelf Components in ...
P. PETR ROČKAJ,
M. BARNAT
... titled
...ception Support
... Verification







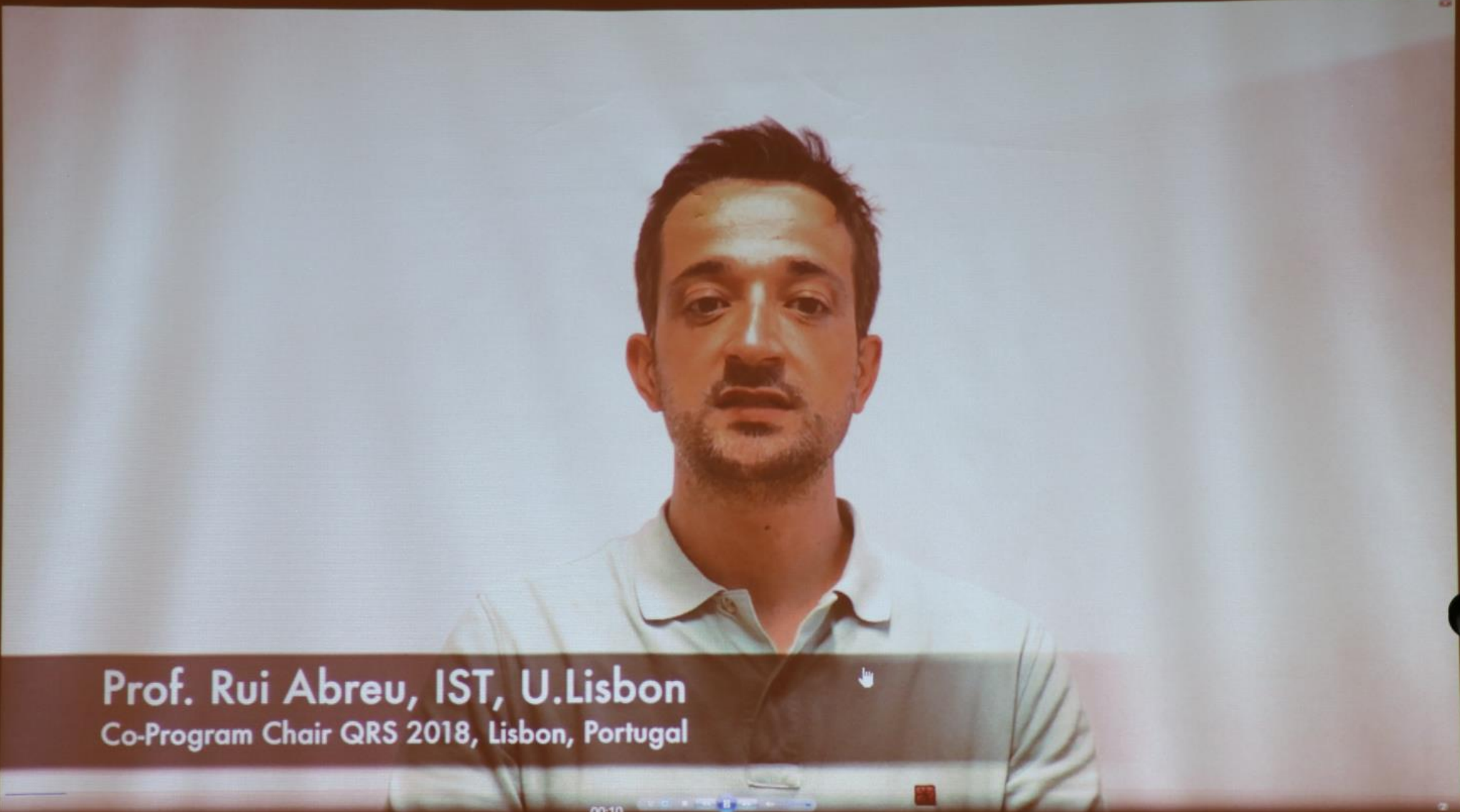
QRS 2018

The 2018 IEEE International Conference on
Software Quality, Reliability & Security

Lisbon, Portugal – July 16–20

<http://paris.utdallas.edu/qrs18>





Prof. Rui Abreu, IST, U.Lisbon
Co-Program Chair QRS 2018, Lisbon, Portugal







IEEE IntellSys
The 2017 International Conference on Software Quality,
Reliability and Security
Prague, Czech Republic, July 27-29, 2017

QRS 2017
Best Paper Award

Presented to
**SHIBU ROSAL, JERRY HOANG, STEPHEN D. HAINSWELL,
ANDREW J. BULL, AND KRISTINA E. BROWN**
for the paper titled
Improving the Performance of Software in Dynamic Software-Driven Environments

[Signatures]
Presented by
[Signature] [Signature] [Signature]

Presented to
[Signature] [Signature] [Signature]

QRS 2017
International Conference on Software Quality,
Reliability and Security
Prague, Czech Republic
July 27-29, 2017



IEEE *Intelligence Society*
The 2017 International Conference on Software Quality,
Reliability and Security
Paper, Czech Republic, July 25-29, 2017
QRS 2017
Best Paper Award
Presented to
WU JIANG, XIAOYU ZHANG, W.K. CHAN AND ZHENYU FANG
for the paper titled
...

QRS 2017
W.K. Chan
CU University of Hong Kong

IEEE *Intelligence Society*
The 2017 International Conference on Software Quality,
Reliability and Security
Paper, Czech Republic, July 25-29, 2017
QRS 2017
Best Paper Award
Presented to
...



