

32nd IEEE International Conference on Software Maintenance and Evolution

ICSME 2016

Oct 5 – Oct 7

16th IEEE International Working Conference on Source Code Analysis and Manipulation

SCAM 2016

Oct 2 – Oct 3

4th IEEE Working Conference on Software Visualization

VISSOFT 2016

Oct 3 – Oct 4

MESOCA 2016 MTD 2016 SSBSE 2016 Oct 3 Oct 4 Oct 8 – Oct 10

Raleigh, North Carolina, USA

Table of Contents

Welcome	5
Venue	6
Schedule	9
Social Events	33
General Information	36



Welcome

Welcome to ICSME 2016 in Raleigh! It is an honor and a pleasure to host the 32nd IEEE International Conference on Software Maintenance and Evolution (ICSME) in the Research Triangle region of North Carolina, which is a major center for high-tech and biotech research. ICSME is the premier international forum for researchers and practitioners from academia, industry, and government to present, discuss, and debate the most recent ideas, experiences, and challenges in software maintenance and evolution.

The week of ICSME 2016 features five co-located events: the 16th IEEE International Working Conference on Source Code Analysis and Manipulation (SCAM), the 4th IEEE Working Conference on Software Visualization (VISSOFT), the 10th IEEE Symposium on the Maintenance and Evolution of Service-Oriented Systems and Cloud-Based Environments (MESOCA), the 8th IEEE International Workshop on Managing Technical Debt (MTD), and the 8th International Symposium on Search Based Software Engineering (SSBSE). We are grateful to all of the organizers of these meetings for joining ICSME and for making the week of ICSME a large and successful event.

We have assembled an exciting technical program and a relaxing social program, both designed to foster interaction with fellow attendees. This booklet provides the information you will need to navigate these programs. If you have any questions, please do not hesitate to contact us.

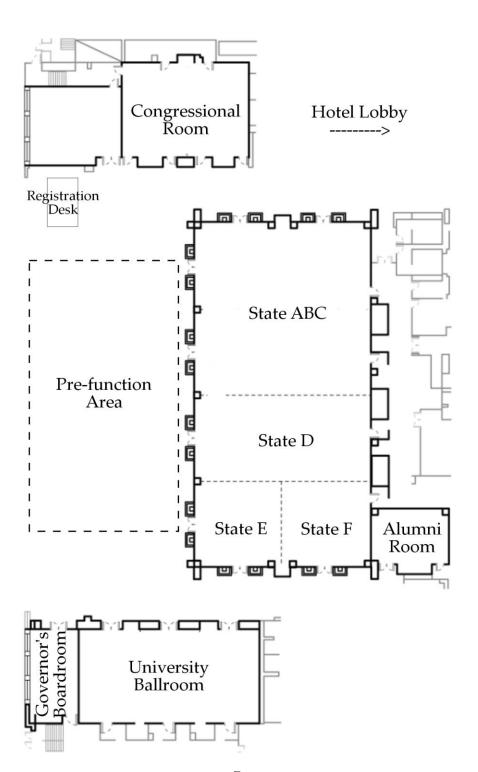
We hope that you have a fabulous time at ICSME 2016 and its colocated events, and if you have time, we hope that you can explore Raleigh's historic landmarks & cosmopolitan offerings.

Nick Kraft and Tim Menzies ICSME 2016 General Co-Chairs

Venue

ICSME 2016 and the co-located events are held in the meeting rooms of the Raleigh Marriott City Center.

- Badges/information are available at the Registration Desk
- Coffee breaks take place in the Pre-function Area
- Lunches take place in State ABC
- Posters and demonstrations are in the Congressional Room
- Quiet space is available (except Tuesday) in the *Alumni Room*
- **SCAM** is in the *University Ballroom*
- **VISSOFT** is in *State E*
- **MESOCA** and **MTD** are in *State F*
- The **Doctoral Symposium** is in the *Governor's Boardroom*
- ICSME Plenary and Research Track sessions are in State DEF
- ICSME Industry/ERA/Tool Demos/Artifacts Track and Technical Briefings sessions are in the *University Ballroom*
- ICSME J1C2 sessions are in the Congressional Room
- The **ICSME reception** is in *State ABC*



Schedule

Sun 2	Mon 3	Tue 4	Wed 5	Thu 6	Fri 7
SC	AM	MTD			
(Univ	ersity)	(State F)			
	VIS	SSOFT			
	(St	ate E)		ICSME	
	MESOCA	Doctoral			
	(State F)	Symposium			
		(Governor's)			

		AM Break	Lunch	PM Break
Sun	2	10:30 - 11:00	12:30 - 13:30	15:00 – 15:30
Mon	3	10:30 - 11:00	12:30 - 13:30	15:00 – 15:30
Tue	4	10:30 - 11:00	12:30 - 13:30	15:00 – 15:30
Wed	5	10:30 - 11:00	12:30 - 13:30	15:00 – 15:30
Thu	6	10:00 - 10:30	12:00 - 13:00	14:30 – 15:00
Fri	7	10:15 - 10:45	12:15 – 13:15	14:45 – 15:15

Sunday, October 2 SCAM 2016 University Ballroom

09:00 - 09:15	Opening	
09:15 _ 10:30	Keynote: Michele Lanza	
10:30 _ 11:00	Coffee Break	
11:00 _ 12:30	Session 1: Software Security and Code Obfuscation	
12:30 - 13:30	Lunch	
13:30 - 15:00	Session 2: Supporting Software Developers	
15:00 _ 15:30	Coffee Break	
15:30 - 17:30	Session 3: Engineering Track Papers	

Monday, October 3 SCAM 2016 University Ballroom

09:00	Session 4:	
10:30	Code Similarity and Fault Localization	
10:30	Coffee Break	
11:00	Conce break	
11:00	Session 5:	
12:30	Software Testing	
12:30	Lunch	
13:30	Luiteri	
13:30	Session 6:	
15:00	Code Transformation and Static Analysis	
15:00	Coffee Break	
15:30	Conee break	
15:30	Session 7:	
17:00	Empirical Studies	
17:00	Closing	
17:15	Closing	
17:15	Open Steering Committee Meeting	
18:00	Open steering Committee Meeting	

Monday, October 3 MESOCA 2016 State F

09:00 - 09:30	Welcome and Introduction	
09:30 - 10:30	Keynote: Scott Tilley	
10:30 - 11:00	Coffee Break	
11:00 - 12:00	Session 1: Migration and Evolution in Cloud Environments	
12:00 _ 12:30	Discussion Session: The Next 10 Years of MESOCA	
12:30 - 13:30	Lunch	
13:30 - 14:30	Session 2: Models and Architectures Supporting Migration and Evolution	
14:30 _ 15:00	Symposium Summary and Next Steps	
15:00 _ 15:30	Coffee & Networking	

Monday, October 3 VISSOFT 2016 State E

09:00		
09:15	Opening	
09:15	Keynote:	
10:30	Joel Brandt	
10:30	Coffee Break	
11:00	Coffee break	
11:00	Session:	
12:30	Ch-ch-changes	
12:30	Lunch	
13:30	Luici	
13:30	Session:	
15:00	Teaching is not a product line	
15:00	Coffee Break	
15:30	Сопее вгеак	
15:30	Session:	
16:50	Numbers, numbers	
16:50	Avvand Caramany	
17:00	Award Ceremony	
19:00	Banquet:	
21:30	Rye Bar and Southern Kitchen	

Tuesday, October 4 VISSOFT 2016 State E

09:00	Keynote:	
10:15	Christopher Healey	
10:15	Demo madness!	
10:30	Denio madress:	
10:30	Coffee Break	
11:00	Confee Dreak	
11:00	Session:	
12:30	Playtime	
12:30	Lunch	
13:30		
13:30	Session:	
15:10	Into the Third Dimension	
15:10	Coffee Break	
15:30	Conee dreak	
15:30	Session:	
16:30	Last but not Least	
16:30	Open Steering Committee Flection	
17:00	Open Steering Committee Election	

Tuesday, October 4 MTD 2016 State F

09:00	Welcome and Introduction	
09:10		
09:10	Keynote:	
10:30	Terri Potts	
10:30	Coffee Break	
11:00	Coffee break	
11:00	Session 1:	
12:30	Technical Debt in Different Domains	
12:30	Lunch	
13:30	Lunch	
13:30	Session 2:	
15:00	Analyzing Technical Debt	
15:00	Coffee Break	
15:30	Сопее бгеак	
15:30	Roadmap Discussion:	
16:30	From Research to Practice	
16:30	Marina Farmandan dadian	
17:00	Moving Forward and Adjourn	
18:30	Banquet:	
21:00	Second Empire Restaurant	

Tuesday, October 4 Doctoral Symposium Governor's Boardroom

09:00 - 10:30	Introductions, advisor management, and post-doc presentations	
10:30 - 11:00	Coffee Break	
11:00 _ 12:30	Early pre-doctoral presentations and proposal writing	
12:30 - 13:30	Lunch	
13:30 - 15:00	Late pre-doctoral presentations and open discussion	
15:00 - 15:30	Coffee Break	
15:30 - 17:00	Late pre-doctoral presentations and poster presentation practicum	
19:00 21:00	Dinner: Bida Manda Laotian Restaurant and Bar	

Wednesday, October 5 ICSME 2016

09:00 - 09:30	Opening	
09:30 - 10:30	Keynote: Tom Mens	
10:30 - 11:00	Coffee Break	
11:00 _ 12:30	Research Track: Empirical Studies & Literature Reviews	Technology Briefings
12:30 - 13:30	Lunch	BoF: LBGT@SoftEng Lunch
13:30 15:00	Research Track: Maintaining Web- based Applications	Industry Track: Welcome and Keynote
15:00 - 15:30	Coffee Break	
15:30 - 17:15	Research Track: Reverse Engineering	Industry Track: Best Practices
17:15 - 18:15	Open Steering Committee Meeting	
18:30 - 22:00	Reception: State ABC	

Research Track: Empirical Studies and Literature Reviews Chair: Tim Menzies Wed, Oct 5, 11:00 – 12:30, State DEF

An Empirical Evaluation of Models of Programmer Navigation Alka Singh, Austin Henley, Scott Fleming and Maria Luong

A Comprehensive Study on the Energy Efficiency of Java Thread-Safe Collections

Gustavo Pinto, Kenan Liu, Fernando Castor and Yu David Liu

Maintenance Effort Estimation for Open Source Software: A Systematic Literature Review

Hong Wu, Lin Shi, Celia Chen, Qing Wang and Barry Boehm

A Taxonomy for Program Metamodels in Program Reverse Engineering

Hironori Washizaki, Yann-Gael Gueheneuc and Foutse Khomh

Technology Briefings
Chair: David Lo
Wed, Oct 5, 11:00 – 12:30, University Ballroom

iTrace: Overcoming the Limitations of Short Code Examples in Eye Tracking Experiments

Bonita Sharif and Jonathan I. Maletic

Automated GUI Testing of Android Apps: From Research to Practice

Kevin Moran, Mario Linares-Vásquez and Denys Poshyvanyk

srcML 1.0: Explore, Analyze, and Manipulate Source Code Michael L. Collard and Jonathan I. Maletic

Research Track: Maintaining Web-based Applications Chair: Tom Mens Wed, Oct 5, 13:30 – 15:00, State DEF

Automated Extraction of Mixins in Cascading Style Sheets Alan Charpentier, Jean-Rémy Falleri and Laurent Réveillère

The A?B*A Pattern: Undoing Style in CSS and Refactoring Opportunities it Presents

Leonard Punt, Sjoerd Visscher and Vadim Zaytsev

Detect Cross-browser Issues for JavaScript-based Web Applications based on Record/Replay Guoquan Wu, Meimei He, Hongyin Tang and Jun Wei

An Empirical Study of Internationalization Failures in the Web Abdulmajeed Alameer and William G.J. Halfond

> Industry Track: Welcome and Keynote Chair: Jens Knodel Wed, Oct 5, 13:30 – 15:00, University Ballroom

Two Sides of Grammarware Engineering Vadim Zaytsev

> Research Track: Reverse Engineering Chair: Emily Hill Wed, Oct 5, 15:30 – 17:15, State DEF

Evolving Trace Links between Requirements and Code across Multiple Versions of a Software System

Mona Rahimi, William Goss and Jane Cleland-Huang

Inferring Links between Concerns and Methods with Multi-Abstraction Vector Space Model

Yun Zhang, David Lo, Xin Xia, Tien-Duy B. Le, Giuseppe Scanniello and Jianling Sun

Inferring Computational State Machine Models from Program Executions

Neil Walkinshaw and Mathew Hall

An optimization based approach for matching applications with textual models

Tejas Patil, Raghavan Komondoor, Deepak D'Souza and Indrajit Bhattacharya

Configuring and Assembling Information Retrieval based Solutions for Software Engineering Tasks (Post-doctoral Track) Bogdan Dit

> Industry Track: Best Practices Chair: Jochen Quante Wed, Oct 5, 15:30 – 17:15, University Ballroom

Improving Code Maintainability: A Case Study on the Impact of Refactoring

Michael Wahler, Uwe Drofenik and Will Snipes

What is the cause for a defect to be re-assigned?

Tamer Abdou, Behjat Soltanifar, Ayse Bener and Adam Neal

How Can We Help Software Rearchitecting Efforts? Study of an Industrial Case

Brice Govin, Nicolas Anquetil, Anne Etien, Arnaud Monegier and Stéphane Ducasse

Continuous Delivery Practices in a Large Financial Organization Carmine Vassallo, Fiorella Zampetti, Daniele Romano, Moritz Beller, Annibale Panichella, Massimiliano Di Penta and Andy Zaidman

Thursday, October 6 ICSME 2016

09:00 - 10:00	Keynote: Flavio Villanustre	
10:00 - 10:30	Coffee Break	
10:30 - 12:00 12:00	Research Track: Software Evolution	Tool Demonstrations
13:00	Lunch	
13:00 - 14:30	Research Track: Changes and Fixes	Industry Track: Comprehension
14:30 - 15:00	Coffee Break	
15:00 - 16:45	Research Track: Code Smells and Software Quality	Industry Track: Testing and Migration
18:30 - 21:30	Banquet: North Carolina Museum of History	

Research Track: Software Evolution Chair: Oscar Nierstrasz Thu, Oct 6, 10:30 – 12:00, State DEF

Complete Evolution Specification for MDSE

Josh Mengerink, Alexander Serebrenik, Ramon Schiffelers and Mark van den Brand

Do Contexts Help in Phrase-based, Statistical Source Code Migration?

Anh Nguyen, Zhaopeng Tu and Tien Nguyen

Evolving NoSQL Databases Without Downtime

Karla Saur, Tudor Dumitras, and Michael Hicks

Hug the Elephant: Migrating a Legacy Data Analytics Application to Hadoop Ecosystem

Feng Zhu, Jie Liu, Sa Wang, Lijie Xu, Dan Ye, Jun Wei, Tao Huang and Jixin Ren

Tool Demonstrations
Chairs: Alberto Bacchelli and Emily Hill
Thu, Oct 6, 10:30 – 12:00, University Ballroom

SchemaAnalyst: Search-based Test Data Generation for Relational Database Schemas

Phil McMinn, Chris Wright, Cody Kinneer, Colton McCurdy, Michael Camara and Gregory Kapfhammer

mrstudyr: Retrospectively Studying the Effectiveness of Mutant Reduction Techniques

Colton J. McCurdy, Gregory M. Kapfhammer and Phil McMinn

BigCloneEval: A Clone Detection Tool Evaluation Framework with BigCloneBench

Jeffrey Svajlenko and Chanchal K. Roy

NullTerminator: Pseudo-Automatic Refactoring to Null Object Design Pattern

Stefan Medeleanu and Petru-Florin Mihancea

srcType: A Tool for Efficient Static Type Resolution

Christian Newman, Jonathan I. Maletic and Michael Collard

A Tool for Efficiently Reverse Engineering Accurate UML Class Diagrams

Michael Decker, Kyle Swartz, Michael Collard and Jonathan I. Maletic

> Research Track: Changes and Fixes Chair: Coen De Roover Thu, Oct 6, 13:00 – 14:30, State DEF

An Empirical Study on the Characteristics of Python Fine-Grained Source Code Change Types

Wei Lin, Zhifei Chen, Wanwangying Ma, Lin Chen, Lei Xu and Baowen Xu

Using Topic Model to Suggest Fine-grained Source Code Changes

Hoan Nguyen, Anh Nguyen and Tien Nguyen

From Quick Fixes to Slow Fixes: Reimagining Static Analysis Resolutions to Enable Design Space Exploration

Titus Barik, Yoonki Song, Brittany Johnson and Emerson Murphy-Hill

Recommending Code Changes for Automatic Backporting of Linux Device Drivers

Ferdian Thung, Le Dinh Xuan Bach, David Lo and Julia Lawall

Industry Track: Comprehension Chair: Bonita Sharif Thu, Oct 6, 13:00 – 14:30, University Ballroom

Introducing Traceability, Consistency Checking, and Change Impact Analysis between Artifacts in an Automation Solution Company: An Experience Report

Andreas Demuth, Roland Kretschmer, Alexander Egyed and Davy Maes

Use Cases of a Generic Model Interpreter in an Automotive Software Setting

Jochen Quante

Integration of Static and Dynamic Code Analysis for Understanding Legacy Source Code

Michael Moser, Josef Pichler, Wilhelm Kirchmayr, Ludwig Nocke and Rudolf Tober

A Case Study of Automated Feature Location Techniques for Industrial Cost Estimation

Ameer Armaly, John Klaczynski and Collin McMillan

Research Track: Code Smells and Software Quality Chair: Árpád Beszédes Thu, Oct 6, 15:00 – 16:45, State DEF

A Validated Set of Smells in Model-View-Controller Architectures

Maurício Aniche, Gabriele Bavota, Christoph Treude, Arie van Deursen and Marco Gerosa

Smells like Teen Spirit: Improving Bug Prediction Performance Using the Intensity of Code Smells

Fabio Palomba, Marco Zanoni, Francesca Arcelli Fontana, Andrea De Lucia and Rocco Oliveto

Comparing Quality Metrics for Cloned and Non-Cloned Java Methods: A Large Scale Empirical Study

Vaibhav Saini, Hitesh Sajnani and Cristina Lopes

"Automated Debugging Considered Harmful" Considered Harmful -- A User Study Revisiting the Usefulness of Spectra-Based Fault Localization Techniques with Professionals using Real Bugs from Large Systems

Xin Xia, Lingfeng Bao, David Lo and Shanping Li

An Automated Approach for Recommending When to Stop Performance Tests

Hammam M. Alghamdi, Mark D. Syer, Weiyi Shang and Ahmed E. Hassan

Industry Track: Testing and Migration Chair: David Shepherd Thu, Oct 6, 15:00 – 16:45, University Ballroom

A tiered approach towards an incremental BPEL to BPMN 2.0 migration

Stefan Strobl, Markus Zoffi, Mario Bernhart and Thomas Grechenig

Effect of Time Window on the Performance of Continuous Regression Testing

Dusica Marijan and Marius Liaaen

Customized Regression Testing Using Telemetry Usage Patterns Jeff Anderson, Hyunsook Do and Saeed Salem

Industrial Application of Automated Regression Testing in Test-Driven ETL Development

Miroslav Dzakovic

Friday, October 7 ICSME 2016

09:00 - 09:30	ICSME 2017 & 2018 Announcements MIP Award		
09:30 - 10:15	Keynote: MIP Award Winners		
10:15 - 10:45	Coffee Break		
10:45 - 12:15	Research Track: Release Engineering	Artifacts J1C2	
12:15 - 13:15	Lunch		
13:15 - 14:45	Research Track: Mining Software Repositories	ERA Track: Defects and Repair	
14:45 - 15:15	Coffee Break		
15:15 - 16:45	Research Track: APIs	ERA Track: Maintenance and Analysis	
16:45 - 17:00	Closing		
17:30 - 18:30	Soccer Game		

Research Track: Release Engineering Chair: Shane McIntosh Fri, Oct 7, 10:45 – 12:15, State DEF

Recovering Commit Branch of Origin from GitHub Repositories Heather Michaud, Drew Guarnera, Michael Collard and Jonathan I. Maletic

Why are Commits being Reverted? A Comparative Study of Industrial and Open Source Projects

Junji Shimagaki, Yasutaka Kamei, Shane Mcintosh, David Pursehouse and Naoyasu Ubayashi

Understanding variable code: Reducing the complexity by integrating variability information

Dierk Lüdemann, Nazish Asad, Klaus Schmid and Christopher Voges

Concepts, Operations, and Feasibility of a Projection-Based Variation Control System

Ştefan Stănciulescu, Thorsten Berger, Eric Walkingshaw and Andrzej Wąsowski

Artifacts Chair: Tim Menzies Fri, Oct 7, 10:45 – 12:15, University Ballroom

TraceLab Components for Reproducing Source Code Summarization Experiments

Breno D. Cruz, Paul W. McBurney and Collin McMillan

Data and Analysis code for GP EFSM Inference (Scorecard) Neil Walkinshaw and Mathew Hall Cassandra Source Code, Feature Descriptions across 27 versions, with Starting and Ending Version Trace Matrices

Mona Rahimi and Jane Cleland-Huang

A Tool for Detecting and Refactoring the A?B*A Pattern in CSS Leonard Punt, Sjoerd Visscher and Vadim Zaytsev

A Comprehensive Study on the Energy Efficiency of Java's Thread-Safe Collections

Gustavo Pinto, Kenan Liu, Fernando Castor and Yu David Liu

The A?B*A Pattern: Undoing Style in CSS and Refactoring Opportunities it Presents

Leonard Punt, Sjoerd Visscher and Vadim Zaytsev

J1C2

Chair: Hitesh Sajnani Fri, Oct 7, 10:45 – 12:15, Congressional Room

The Impact of Vocabulary Normalization

Dave Binkley and Dawn Lawrie

Robula+: an algorithm for generating robust XPath locators for web testing

Maurizio Leotta, Andrea Stocco, Filippo Ricca and Paolo Tonella

Automated feature discovery via sentence selection and source code summarization

Paul W. McBurney, Cheng Liu and Collin McMillan

Research Track: Mining Software Repositories Chair: Alexander Serebrenik Fri, Oct 7, 13:15 – 14:45, State DEF

Understanding the Factors that Impact the Popularity of GitHub Repositories

Hudson Silva, Andre Hora and Marco Tulio Valente

Who is who in the mailing list? Comparing six disambiguation heuristics to identify multiple addresses of a participant Igor Scaliante Wiese, Igor Steinmacher, Christoph Treude, Jose Teodoro Da Silva and Marco Gerosa

TechLand: Assisting Technology LandscapeInquiries with Insights from Stack Overflow

Chunyang Chen, Zhenchang Xing and Lei Han

Search-Based Peer Reviewers Recommendation in Modern Code Review

Ali Ouni, Raula Gaikovina Kula and Katsuro Inoue

ERA Track: Defects and Repair
Chair: Scott Fleming
Fri, Oct 7, 13:15 – 14:45, University Ballroom

Empirical Study on Synthesis Engines for Semantics-based Program Repair

Le Dinh Xuan Bach, David Lo and Claire Le Goues

Enhancing Automated Program Repair with Deductive Verification

Le Dinh Xuan Bach, Quang Loc Le, David Lo and Claire Le Goues

Automatic detection of instability architectural smells

Francesca Arcelli Fontana, Ilaria Pigazini, Riccardo Roveda and Marco Zanoni

Towards Accurate Binary Correspondence using Runtime- Observed Values

Ulf Kargén and Nahid Shahmehri

A Quantitative and Qualitative Investigation of Performance-Related Commits in Android Apps

Teerath Das, Massimiliano Di Penta and Ivano Malavolta

On the Vocabulary Agreement in Software Issue Descriptions Oscar Chaparro, Juan Manuel Florez and Andrian Marcus

Repairing intricate faults in code using machine learning and path exploration

Divya Gopinath, Kaiyuan Wang, Jinru Hua and Sarfraz Khurshid

Research Track: APIs Chair: Massimiliano Di Penta Fri, Oct 7, 15:15 – 16:45, State DEF

ICON: Inferring Temporal Constraints from Natural Language API Descriptions

Rahul Pandita, Kunal Taneja, Teresa Tung and Laurie Williams

Learning to Extract API Mentions from Informal Natural Language Discussions

Deheng Ye, Zhenchang Xing, Chee Yong Foo, Jing Li and Nachiket Kapre

On the reaction to deprecation of 25,357 clients of 4+1 popular Java APIs

Anand Ashok Sawant, Romain Robbes and Alberto Bacchelli

Accessing Inaccessible Android APIs: An Empirical Study Li Li, Tegawendé F. Bissyandé, Yves Le Traon and Jacques Klein

ERA Track: Maintenance and Analysis Chair: David Lo Fri, Oct 7, 15:15 – 16:45, University Ballroom

Continuous Maintenance

Candy Pang and Abram Hindle

Using Temporal and Semantic Developer-Level Information to Predict Maintenance Activity Profiles

Stanislav Levin and Amiram Yehudai

Modular Change Impact Analysis for Configurable Software Florian Angerer, Herbert Prähofer and Paul Grünbacher

How Does the Shift to GitHub Impact Project Collaboration? Luiz Felipe Dias, Igor Steinmacher, Gustavo Pinto, Daniel Alencar Da Costa and Marco Gerosa

Key Elements Extraction and Traces Comprehension Using Gestalt Theory and the Helmholtz Principle

Raphael Khoury, Lei Shi and Abdelwahab Hamou-Lhadj

Part of Speech Tagging Java Method Names

Wyatt Olney, Emily Hill, Chris Thurber and Bezalem Lemma

Detecting Function Constructors in JavaScript

Shahriar Rostami, Laleh Eshkevari, Davood Mazinanian and Nikolaos Tsantalis

Social Events

SCAM Banquet

The SCAM 2016 banquet will take place on Sunday, October 2 at 7:00 PM. The banquet venue is the Boxcar Bar + Arcade in Raleigh's Warehouse District at 330 West Davie Street (at the intersection with Harrington Street; in the middle-right of cell A5 on the map). Boxcar has over 70 original games, 24 craft drafts, and a liquor bar.

VISSOFT Banquet

The VISSOFT 2016 banquet will take place on Monday, October 3 at 7:00 PM. The banquet venue is the Rye Bar & Southern Kitchen, which is in the conference hotel, offers a refined take on traditional Southern cuisine, and features produce and meats from local North Carolina farms.

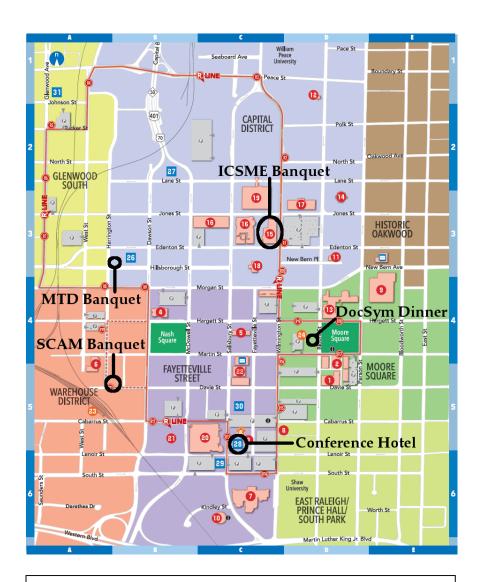
MTD Banquet

The MTD 2016 banquet will take place on Tuesday, October 4 at 6:30 PM. The banquet venue is the Second Empire Restaurant and Tavern in the beautifully restored Historic Dodd-Hinsdale House at 330 Hillsborough Street (at the intersection with Harrington Street; in the lower-left of cell B3 on the map). Second Empire offers a dining experience that combines an atmosphere of classical history & elegance with an exquisitely unique selection of cuisine.

Doctoral Symposium Dinner

Sponsored by Microsoft Research

The Doctoral Symposium dinner will be on Tuesday, October 4 at 6:30 PM. The dinner venue is Bida Manda Laotian Restaurant and Bar at 222 South Blount Street (west of Moore Square; in cell D4 on the map). Attendance at the dinner is limited to Doctoral Symposium organizers, panelists, and participants.



See www.visitraleigh.com for this map

(About → Maps → Downtown Raleigh Downloadable Map)

and other information about Downtown Raleigh

See Also:

www.godowntownraleigh.com www.wikitravel.org/en/Raleigh

ICSME Bike Ride

Raleigh has over 100 miles of greenways to explore! Explore a (small) part of them during this 30 minute bike ride on Tuesday, October 4. The first leg of the low-intensity ride will commence at 5:00 PM from the conference hotel and end at Trophy Brewing at 656 Maywood Avenue (southwest of cell A6 on the map). Enjoy their famous 40 oz. tasting flight, hang out and play corn hole, and grab some grub from the food truck. The ride back to the conference hotel will commence at around 7:00 PM.

ICSME Reception

The ICSME 2016 reception will be held on Wednesday, October 5 from 6:30 PM to 10:00 PM in *State ABC*. The reception will feature a relaxed atmosphere with food, drinks, and sport. Experience true Southern living as you play Cornhole and drinking local craft brew. Participate in the Cornhole Tournament for a chance to win fame, friends, and a "World Champions" medal. Or grab a bingo card and play nametag-ribbon bingo, a fun way to meet other attendees.

ICSME Banquet

The ICSME 2016 banquet will take place on Thursday, October 6 from 6:30 PM to 9:30 PM. The banquet venue is the North Carolina Museum of History in Raleigh's Capital District at 5 East Edenton Street (at the intersection with Wilmington Street; in the middle-right of cell C3 on the map). Enjoy appetizers and drinks then walk through 14,000 years of North Carolina history before dinner.

ICSME Soccer Game

The ICSME 2016 soccer game will take place on Friday, October 7 on a natural grass field on the Centennial Campus of NC State University immediately after the conference ends. The game bus will leave from the conference hotel at 5:30 PM and return to the conference hotel at 7:00 PM. Please change into game attire before boarding the bus, as there are no changing rooms at the field.

General Information

Conference Venue	Raleigh Marriott City Center 500 Fayetteville Street Raleigh North Carolina 27601 USA +1 919 833 1120
Website	http://icsme2016.github.io
Twitter	https://twitter.com/ieeeicsme
Facebook	https://www.facebook.com/icsmeconf
Hashtag	#icsme16

Transportation

Raleigh-Durham International Airport (RDU) is approximately 25 minutes by car or 50 minutes by bus from the Raleigh Marriott City Center. Many ground transportation options are available, including taxis, shuttle services, Uber, Lyft, and the Go Triangle bus line. See the following resources for additional information:

Directory	http://www.rdu.com/ground-transportation
Taxi	RDU Taxi, Inc. http://www.rdutaxiinc.com/ +1 919 840 7277
Bus	Go Triangle http://www.gotriangle.org/maps-and- schedules#1556 +1 919 485 7433
Shared Services	http://www.rdu.com/wp- content/uploads/2014/11/shared20160721.pdf

Registration

The registration desk is open daily from 8:00 – 17:00.

Name Badges

Attendees must wear their name badges at all times to gain entry to the conference events. Your registration packet contains tickets to all events based on your registration selections. Please keep these tickets in your name badge and present them to conference staff upon request. If you have a dietary restriction card, please show it to your server to obtain your special meal. Please keep this card with you for the duration of the conference, including the banquet(s).

Internet Access

Wireless internet access is available in the meeting space.

SSID	Marriott_Conference
Password	IEEE2016

Proceedings

Access the proceedings by downloading the online version.

URL	http://conferences.computer.org/icsme/2016
User	icsme16
Password	conf16

Emergency

Nick Kraft	+1 205 861 6586		
Emergencies / Crimes in Progress	911		
Non-Emergency Crimes	+1 919 996 3335		

Notes

Sponsors





Supporters

Platinum



Bronze



Patrons

