SANER 2016
23rd IEEE International Conference
on Software Analysis, Evolution, and
Reengineering
Osaka University, March 13-18, 2016

Conference Program

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Welcome to **SANER 2016**, the 23rd IEEE International Conference on Software Analysis, Evolution, and Reengineering in Suita-City, Osaka, Japan. SANER is the premier conference on the theory & practice of recovering information from existing software systems. SANER 2016 week packs a lot of knowledge and events in a single week. It starts on Sunday with a co-located workshop, the 7th IEEE International Workshop on Empirical Software Engineering in Practice (IWESEP), followed by The Leaders of Tomorrow: Future of Software Engineering Symposium on Monday. Four workshops and the poster presentation take place on Tuesday, and the main conference is held on Wednesday through Friday. The main conference features two keynote presentations, 13 technical research paper tracks, two early research achievements tracks, an industry paper track, a doctoral symposium, and a tool demonstration track. We hope that all the attendees will have great time in Osaka and SANER 2016.

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**Pre-Conference Schedule**

<table>
<thead>
<tr>
<th>MARCH 13, SUNDAY</th>
<th>March 14, MONDAY</th>
<th>March 15, TUESDAY</th>
</tr>
</thead>
<tbody>
<tr>
<td>08:00-09:00</td>
<td>Registration</td>
<td></td>
</tr>
<tr>
<td>09:00-</td>
<td><strong>CO-LOCATED</strong> Event</td>
<td><strong>WORKSHOPS</strong></td>
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<tr>
<td></td>
<td>IWSEEP 2016</td>
<td>VST 2016 (Room DE)</td>
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<tr>
<td>15:30-</td>
<td><strong>FoSE</strong></td>
<td>IWSC 2016 (Hall)</td>
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<tr>
<td>18:00-</td>
<td>Leaders of Tomorrow: Future of Software Engineering (Hall)</td>
<td>PPAP 2016 (Room B)</td>
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<td>OOPSLE 2016 (Room C)</td>
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<td><strong>FUTSAL</strong></td>
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<td><strong>RECEPTION</strong></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>POSTERS</strong></td>
<td></td>
</tr>
</tbody>
</table>
### Conference Schedule

<table>
<thead>
<tr>
<th>MARCH 16, WEDNESDAY</th>
<th>March 17, THURSDAY</th>
<th>March 18, FRIDAY</th>
</tr>
</thead>
<tbody>
<tr>
<td>07:30-08:00</td>
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<tr>
<td>08:00-08:30</td>
<td>Registration</td>
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<td>08:30-09:00</td>
<td>OPENING (Hall)</td>
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<tr>
<td>09:00-10:30</td>
<td>KEYNOTE 1 (Hall)</td>
<td>KEYNOTE 2 (Hall)</td>
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<tr>
<td>10:30-11:00</td>
<td>Coffee Break</td>
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<td>11:00-12:30</td>
<td>RESEARCH (Hall) Clones</td>
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<td>RESEARCH (Room DE) Refactoring</td>
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<td>12:30-14:00</td>
<td>Lunch Break</td>
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<td>14:00-15:30</td>
<td>ERA (Hall) APIs, Refactoring &amp; Design</td>
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<td>TOOL DEMOS (Room DE)</td>
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<td>PhD SYMPOSIUM (Room B)</td>
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<td>15:30-16:00</td>
<td>Coffee Break</td>
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<tr>
<td>16:00-17:00</td>
<td>RESEARCH (Hall) Crystal Balls</td>
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<td>RESEARCH (Room DE) PoLemic</td>
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<td>17:00-17:30</td>
<td>RESEARCH (Room DE) New Sources</td>
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<td>RESEARCH (Room DE) People</td>
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<td>17:30-18:15</td>
<td>MOST INFLUENTIAL PAPER (Hall)</td>
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<td>19:00-</td>
<td>BANQUET</td>
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March 14, MONDAY

Leaders of Tomorrow: Future of Software Engineering (09:00-17:30, Hall)

Session Chairs: Ahmed E. Hassan, Thomas Zimmerman, Massimiliano Di Penta

Green Software Engineering: The Curse of Methodology
Abram Hindle

Software Engineering for the Web
Ali Mesbah

On Release Engineering
Bram Adams

Spreadsheets are Code
Felienne Hermans

Mining Unstructured Data: Current and Future Trends
Gabriele Bavota

Understanding Program Comprehension
Janet Siegmund

Future Trends in Mining Mobile App Stores
Meiyappan Nagappan

Personal and Biometric Data to Improve Developer's Productivity and Happiness
Thomas Fritz

Going Beyond Code and Bugs: Trends and Future Directions
Yasutaka Kamei
March 15, TUESDAY

Workshops (09:00-)

VST 2016 - 1st International Workshop on Validating Software Tests  
Room DE

IWSC 2016 - 10th International Workshop on Software Clones  
Hall

PPAP 2016 - 3rd International Workshop on Patterns Promotion and Anti-patterns Prevention  
Room B

OOPSLA - 4th International Workshop on Open and Original Problems in Software Language  
Room C

Futsal (15:30-17:30, Futsal Court)

Reception (18:00-, Poplar Street Cafeteria)

Posters (18:00-, Poplar Street Cafeteria)  
Session Chairs: Hiroyuki Nakagawa & Laura Moreno

Applications of Software Reengineering Techniques to a Factory Simulation Software Using Cloud Services  
Toly Chen

An Empirical Study of Uncertainty in OSS Projects  
Kazuhiro Yamashita, Guanda Jiang, Tokuya Fukamachi, Yasutaka Kame and Naoyasu Ubayashi

A Proposal of Traceability Visualization Tool for Information Seeking in Middle-Large-Scaled Open Source Software  
Shu Kutsuzawa and Atsuo Hazeyama

Can Developers’ Interaction Data Improve Change Recommendation?  
Akihiro Yamamori and Takashi Kobayashi

Understanding the Delivery Delay  
Daniel Alencar Da Costa, Shane McIntosh, Urâ Kulesza and Ahmed E. Hassan

Acquisition and Preprocessing of Bug Reports from Multiple Data Sources with Tool Kayur  
Alexander Kohan, Cyrille Artho and Mitsuharu Yamamoto

Generation of Software Variants Using Code Clones  
Mary Southern, Mark Boddy, Hayley Borch, Ian De Silva, Steven Harp, Ken Hoyme, Steven Johnston and August Schwerdfeger

What Additional Features Should be in a High-impact Bug Report?  
Md. Rejaul Karim, Akinori Ihara, Xin Yang, Hajimu Iida and Kenichi Matsumoto

An Industrial Experience Report on Introduction and Usage of Static Analysis Tools  
Jan-Peter Ostberg and Stefan Wagner

Towards Interactive Phrase Suggestion for Naming Classes  
Hiroki Fukuda, Yasuhiro Hayase and Hiroyuki Kitagawa

Toward Selecting a Reliable Version of OSS Library Based on Bug-fixing Curve  
SKesuke Fujino, Akinori Ihara, Kiyoshi Honda, Hironori Washizaki and Kenichi Matsumoto

Balance Your Fitness  
Anya Helene Bogge, Anna Maria Eliertsen and Vadim Zaytsev

An Empirical Study of the Impact of Task Granularity on Co-evolution Analyses  
Keisuke Miura, Shane McIntosh, Yasutaka Kame, Ahmed E. Hassan and Naoyasu Ubayashi

Clustering OSS License Statements Toward Automatic Generation of License Rules  
Yunosuke Higashi, Yuki Manabe and Masao Ohira
**March 16, WEDNESDAY**

**Opening (08:30-09:00, Hall)**
Session Chairs: Katsuro Inoue, Yasutaka Kamei, Michele Lanza

**Keynote 1 (09:00-10:30, Hall)**
Session Chairs: Yasutaka Kamei & Michele Lanza

**Visual Analytics, a Holistic Approach to Managing Complex Systems**
*Wim de Pauw*

**Clones (11:00-12:30, Hall)**
Session Chair: Rainer Koschke

**An Empirical Study on Recommendations of Similar Bugs**
*Henrique Rocha, Marco Tulio Valente, Humberto T. Marques-Neto and Gail Murphy*

**Cross-Architecture Binary Semantics Understanding via Similar Code Comparison**
*Yikun Hu, Juanru Li, Yuanyuan Zhang and Dawu Gu*

**Bug Replication in Code Clones: An Empirical Study**
*Judith F. Islam, Manishanhar Mondal and Chanchal K. Roy*

**On the Relationship of Inconsistent Software Clones and Faults: An Empirical Study**
*Stefan Wagner, Asim Abdulhaleq, Kamer Kaya and Alexander Paar*

**Refactoring (11:30-12:30, Room DE)**
Session Chair: Serge Demeyer

**Domino Effect: Move More Methods Once A Method Is Moved**
*Hui Liu, Yuting Wu, Wenmei Liu, Qilulong Liu and Chao Li*

**Supporting Selective Undo for Refactoring**
*Xiao Cheng, Yuting Chen, Zhenjiang Hu, Tao Zan, Mengyu Liu, Hao Zhong and Jianjun Zhao*

**Finding the Best Compromise Between Design Quality and Testing Effort During Refactoring**
*Rodrigo Morales, Aminata Sabane, Pooya Musavi, Foutse Khomh, Francisco Chicano and Giuliano Antoniol*

**Studying the Relation between Anti-patterns in Models and in Source Code**
*Bilal Karasneh, Michel Chaudron, Foutse Khomh and Yann-Gaët Guéhéneuc*

**Tool Demos (14:00-15:30, Room DE)**
Session Chairs: Sonia Haiduc & Yoshiki Higo

**BUMPER: A Tool for Coping with Natural Language Searches of Millions of Bugs and Fixes**
*Mathieu Nayrolles and Abdelwahab Hamou-Lhadj*

**BINSEC/SE: A Dynamic Symbolic Execution Toolkit for Binary-level Analysis**
*Robin David, Sebastien Bardin, Mouinier Laurent, Thanh Dinh Ta, Jean-Yves Marion, Josselein Feist and Marie-Laure Potet*

**CoreTAna: A Trace Analyser for Reverse Engineering Real-Time Software**
*Andreas Sailer, Michael Deubzer, Gerald Lüttgen and Jürgen Mottak*

**Supporting Merge Conflict Resolution by Using Fine-Grained Code Change History**
*Yuichi Nishimura and Katsuhisa Maruyama*

**Managing Traceability Links With MaTraca**
*Angela Lozano, Carlos Noguera and Viviane Jonckers*

**Automated Generalization and Refinement of Code Templates with Ekeko/X**
*Tim Molderez and Coen De Roover*
ERA: APIs, Refactoring & Design (14:00-15:30, Hall)

Session Chair: Andrea Mocci

Parameter Values of Android APIs: A Preliminary Study on 100,000 Apps
Li Li, Tegawendé F. Bissyandé, Jacques Klein and Yves Le Traon

Native or Web? A Preliminary Study on the Energy Consumption of Android Development Models
Wellington Oliveira, Wesley Torres, Fernando Castor and Bianca H Ximenes

Composite Refactoring for Decoupling Multiple Classes
Yusuke Takanashi and Naoya Nitta

A Code Refactoring Dataset and Its Assessment Regarding Software Maintainability
István Kádár, Péter Hegedűs, Rudolf Ferenc and Tibor Gimbóthy

Frankencode: Creating Diverse Programs Using Code Clones
Hayley Borch, Mark Boddy, Mary Southern, Ian De Silva, Steven Harp, August Schwerdfeger, Steven Johnston and Ken Hayme

Antipattern and Code Smell False Positives: Preliminary Conceptualization and Classification
Francesca Arcelli Fontana, Jens Dietrich, Bartosz Walter, Aiko Yamashita and Marco Zanoni

Identifying Utility Functions using Random Forests
Tamara Mendes, Marco Tulio Valente, Andre Hora and Alexander Serebrenik

PhD Symposium (14:00-15:30, Room B) by invitation only

Session Chairs: Serge Demeyer & Michael Godfrey

Software Reliability Growth Model Considering Uncertainty and Dynamics in Development
Kiyoshi Honda, Hironori Washizaki and Yoshiaki Fukazawa

Tracking Misconfiguration Errors in Multi-layered Architecture Systems
Mohammed Sayagh

Risk Management using Learning Analytics in Project-based Software Engineering Education
Issarapong Khunthom and Yasuhiro Tsujimura

Crystal Balls (16:00-17:30, Hall)

Session Chair: Shane McIntosh

Do Developers Deprecate APIs with Replacement Messages? A Large-scale Analysis on Java Systems
Gleison Brito, Andre Hora, Marco Tulio Valente and Romain Robbes

MICHAC: Defect Prediction via Feature Selection based on Maximal Information Coefficient with Hierarchical Agglomerative Clustering
Zhou Xu, Jifeng Xuan, Jin Liu and Xiaohui Cui

On the Detection of Licenses Violations in Android Ecosystem
Ons Mlouhi, Foutse Khomh and Giuliano Antoniol

Do Code Smells Impact the Effort of Different Maintenance Programming Activities?
Zéphyrin Soh, Aiko Yamashita, Foutse Khomh and Yann-Gaël Guéhéneuc

PoLemic (16:00-17:30, Room DE)

Session Chair: Leon Moonen

Custom-Tailored Variability Mining for Block-Based Languages
David Wille, Sandra Schulze, Christoph Seidl and Ina Schaefer

A Case Study on Type Hints in Method Argument Names in Pharo Smalltalk Projects
Boris Spassjjevic, Oscar Nierstrasz and Mircea Lungu

Visualizing Data-Flows in Functional Programs
Tobias Weck and Matthias Tichy

Null Checks in Open-Source Java Systems: How and How Often?
Haidar Osman, Manuel Leuenberger, Mircea Lungu and Oscar Nierstrasz
Keynote 2 (09:00–10:30, Hall)
Session Chairs: Yasutaka Kamei & Michele Lanza
ACM Activities and Prospects in the 21st Century
Alexander L. Wolf

Quality (11:00–12:30, Hall)
Session Chair: Martin Pinzger
Examining the Impact of Self-admitted Technical Debt on Software Quality
Sultan Wehaibi, Emad Shihab and Latifa Guerrouj
The Impact of Human Discussions on Just-In-Time Quality Assurance
Parastou Tourani and Bram Adams
Generalizing the Analysis of Evolutionary Coupling for Software Change Impact Analysis
Thomas Rolfsnes, Stefano Di Alesio, Razieh Behjati, Leon Moonen and Dave Binkley
History Driven Automated Program Repair
Le Dinh Xuan Bach, David Lo and Claire Le Goues

Instrumental (11:00–12:30, Room DE)
Session Chair: Abram Hindle
Negative Effects of Bytecode Instrumentation on Java Source Code Coverage
Dávid Tengeri, Ferenc Horváth, Árpád Beszédes, Tamás Gergely and Tibor Gyimóthy
Uroboros: Instrumenting Stripped Binaries with Static Reassembling
Shuai Wang, Pei Wang, Jiang Ming and Dinghao Wu
Towards Transparent Introspection
Kevin Leach, Chad Spensky, Westley Weimer and Fengwei Zhang
Linvail: A General-Purpose Platform for Shadow Execution of JavaScript
Laurent Christophe, Elisa Gonzalez Boix, Wolfgang De Meuter and Coen De Roover

ERA: Mining & Empirical Studies (14:00–15:30, Hall)
Session Chair: Luca Ponzanelli
Towards Building API Usage Examples Metrics
Stevche Radevski, Hideaki Hata and Kenichi Matsumoto
Software Language Identification with Natural Language Classifiers
Juriaan Kennedy van Dam and Vadim Zaytsev
At Ease with your Warnings: The Principles of the Salutogenesis Model Applied to Automatic Static Analysis
Jan-Peter Ostberg and Stefan Wagner
An Empirical Study on the Usage of the Swift Programming Language
Marcel Rebouças, Gustavo Pinto, Felipe Ebert, Wesley Torres, Alexander Serebrenik and Fernando Castor
AutoBench: Finding Workloads That You Need Using Pluggable Hybrid Analyses
Yudi Zheng, Andrea Rosá, Luca Salucci, Yao Li, Haiyang Sun, Lubomír Bulej, Lydia Y. Chen, Zhengwei Qi and Walter Binder
Analyzing Decision Criteria of Software Developers Based on the Prospect Theory
Kanako Kina, Masateru Tsunoda, Hideaki Hata, Haruaki Tamada and Hiroshi Igaki
Industry (14:00-15:30, Room DE)

Session Chair: Tom Zimmermann

Improving the Performance of a Large Scale Spreadsheet: A Case Study
Alaaeddin Swidan, Felienne Hermans and Ruben Koesoemawidjojo

A Systematic Framework for Modernizing Legacy Application Systems
Timothy Fanelli, Scott Simons and Sean Banerjee

Michael Moser, Josef Pichler, Günter Fleck, Michael Wittlatschil, Wilhelm Kirchmayr, Ludwig Noche and Rudolf Taber

On Error-Class Distribution in Automotive Model-Based Software
Harald Altinger, Yanja Dajsuren, Franz Wotawa, Jurgen Vinju and Sebastian Siegl

Designing and Developing Automated Refactoring Transformations: An Experience Report
Gábor Székely, Csaba Nagy, Rudolf Ferenc and Tibor Gyimothy

New Sources (16:00-17:30, Hall)

Session Chair: Massimiliano Di Penta

Evaluating Automatic Spreadsheet Metadata Extraction on a Large Set of Responses from MOOC Participants
Sohon Roy, Felienne Hermans, Efthimia Aivaloglou, Jos Winter and Arie van Deursen

Localizing Multiple Faults in Simulink Models
Bing Liu, Lucia Lucia, Shiva Nejati, Lionel Briand and Thomas Bruckmann

A More Accurate Model for Finding Tutorial Segments Explaining APIs
He Jiang, Jingxuan Zhang, Xiaochen Li, Zhilei Ren and David Lo

An Empirical Study on the Use of CSS Preprocessors
Davood Mazinanian and Nikolaos Tsantalis

People (16:00-17:30, Room DE)

Session Chair: Andrian Marcus

Software-specific Named Entity Recognition in Software Engineering Social Content
Deheng Ye, Zhenchang Xing, Chee Yong Foo, Zi Qun Ang, Jing Li and Nachiket Kapre

Forking and the Sustainability of the Developer Community Participation: An Empirical Investigation on Outcomes and Reasons
Ayushi Rastogi and Nachikappan Nagappan

More Common Than You Think: An In-Depth Study of Casual Contributors
Gustavo Pinto, Igor Steinmacher and Marco Gerosa

A Study of Visual Studio Usage in Practice
Sven Amann, Sebastian Proksch, Sarah Nadi and Mira Mezini

Most Influential Paper (17:30-18:15, Hall)

Session Chair: Massimiliano Di Penta

"Cloning Considered Harmful" Considered Harmful
Cory Kapser, Michael W. Godfrey
In Proceedings of WCRE 2006 (13th Working Conference on Reverse Engineering), 23-27 October 2006, Benevento, Italy

Banquet (19:00-, Hotel Hankyu EXPO Park)
IR-onic Mining (09:00-10:30, Hall)

Session Chair: Gabriele Bavota

Parameterizing and Assembling IR-based Solutions for Software Engineering Tasks using Genetic Algorithms
Annibale Panichella, Bogdan Dit, Rocco Oliveto, Massimiliano Di Penta, Denys Poshyvanyk and Andrea De Lucia

Examining the Stability of Logging Statements
Suhas Kabinna, Weiyi Shang, Cor-Paul Bezemer and Ahmed E. Hassan

What is Spain's Paris? Mining Analogical Libraries in Q&A Discussions ☆
Chunyang Chen, Sa Gao and Zhenchang Xing

RACK: Automatic API Recommendation using Crowdsourced Knowledge
Mohammad Masudur Rahman, Chanchal K. Roy and David Lo

Program Analysis (11:00-12:30, Hall)

Session Chair: Michael Godfrey

Efficient and Precise Dynamic Slicing for Client-Side JavaScript Programs ☆
Jiabin Ye, Cheng Zhang, Lei Ma, Haibo Yu and Jianjun Zhao

Supporting Program Analysis for Non-Mainstream Languages: Experiences and Lessons Learned
Andreas Grimmer, Florian Angerer, Herbert Prähofer and Paul Grünbacher

Analyzing the State of Static Analysis: A Large-Scale Evaluation in Open Source Software
Moritz Beller, Radjino Bholanath, Shane McIntosh and Andy Zaidman

Marea: a Semi-automatic Decision Support System for Breaking Dependency Cycles
Andrea Caracciolo, Bledar Aga, Mircea Lungu and Oscar Nierstrasz

Mobile (11:00-12:30, Room DE)

Session Chair: Mei Nagappan

An Investigation into the Use of Common Libraries in Android Apps
Li Li, Tegawendé F. Bissyandé, Jacques Klein and Yves Le Traon

AppVerifier: Assessing the text-to-code fidelity in Android applications
Le Yu, Xiaopu Luo, Chenxiong Qian and Shuai Wang

Mining Android Apps to Recommend Permissions
Md Yasser Karim, Huzefa Kagdi and Massimiliano Di Penta

Optimizing User Experience in Choosing Android Applications
Rubén Saborido Infantes, Giovanni Beltrame, Foutse Khomh, Enrique Alba and Giuliano Antoniol

Release Engineering (14:00-15:30, Hall)

Session Chair: Tom Zimmermann

Predicting Build Co-Changes with Source Code Change and Commit Categories ☆
Christian Macho, Shane McIntosh and Martin Pinzger

Release Practices in Mobile Apps - Users and Developers Perception
Maleknaz Nayeibi, Bram Adams and Guenther Ruhe

A Large Scale Study of Multiple Programming Languages and Code Quality
Pavneet Singh Kochhar, Dinusha Wijedasa and David Lo

Botched Releases: Do we Need to Roll Back? Empirical Study on a Commercial Web App
Noureddine Kerzazi and Bram Adams
**Eco-Logical (14:00-15:30, Room DE)**

Session Chair: Foutse Khomh

When GitHub meets CRAN: An Analysis of Inter-Repository Package Dependency Problems  
*Alexandre Decan, Tom Mens, Maëlick Clae and Philippe Grosjean*

Achieving Knowledge Evolution in Dynamic Software Product Lines  
*Lorena Arcega, Jaime Font, Oystein Haugen and Carlos Cetina*

Haskell in Green Land: Analyzing the Energy Behavior of a Purely Functional Language  
*Luís Gabriel Lima, Gilberto Melfe, Francisco Soares-Neto, Paulo Lieuthier, João Paulo Fernandes and Fernando Castor*

Client-side Energy Efficiency of HTTP/2 for Web and Mobile App Developers  
*Shaiful Chowdhury, Varun Sapra and Abram Hindle*

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**Closing & Announcement of SANER 2017 (16:00-17:00, Hall)**

Session Chairs: Katsuro Inoue, Yasutaka Kamei, Michele Lanza,  
Martin Pinzger, Gabriele Bavota, and Andrian Marcus

☆ = best paper candidate
General Information

<table>
<thead>
<tr>
<th>Proceedings</th>
</tr>
</thead>
<tbody>
<tr>
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<td>Passphrase: OsakaYayoi</td>
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</tbody>
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**Eduroam** is also available. For further information of Wi-Fi account, ask Wi-Fi Desk (at Registration Desk)

<table>
<thead>
<tr>
<th>Lunch</th>
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<tbody>
<tr>
<td>March 14-18, 12:30-14:00, Poplar Street Cafeteria</td>
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<tr>
<td>Access: Walk for seven minutes from Icho-Kaikan (see the Campus map)</td>
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<thead>
<tr>
<th>Coffee Break</th>
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<td>March 14-18, 10:30-11:00 &amp; 15:30-17:30, Icho-Kaikan</td>
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<table>
<thead>
<tr>
<th>Reception</th>
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<tr>
<td>March 15, 18:00-, Poplar Street Cafeteria</td>
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<td>Access: Walk for seven minutes from Icho-Kaikan (see the Campus map)</td>
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<tr>
<th>Banquet</th>
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<td>March 17, 19:00-, Hotel Hankyu EXPO Park</td>
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<td>Access: Take the Osaka Monorail from Handai-Byoin-Mae station (Osaka University Medical Hospital, #52) bound for Senri-Chuo or Banpaku-Kinen-Koen (Track 2). Get off at Banpaku-Kinen-Koen station (Expo’70 Commemoration Park, #17, two stations away) and walk for five minutes.</td>
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<td>Our campus is nonsmoking, except for the designated smoking spot (see the Campus map).</td>
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</tbody>
</table>
Organization

GENERAL CHAIR
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Michele Lanza (University of Lugano)

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Takashi Kobayashi (Tokyo Institute of Technology)
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