

### S1: Testing

- Stefan Fischer, Rudolf Ramler, Lukas Linsbauer and Alexander Egyed. "Automating Test Reuse for Highly Configurable Software: An Experiment". (RT)
- Jacob Krüger, Mustafa Al-Hajjaji, Thomas Leich and Gunter Saake. "Mutation Operators for Feature-Oriented Software Product Lines". (JFT)
- Aitor Arrieta, Sergio Segura, Urtzi Markiegi, Goiuria Sagardui and Leire Etxeberria. Extended abstract of "Spectrum-Based Fault Localization in Software Product Lines". (JFT)
- Matthias Markthaler, Rolf Ebert, Jahir Jolianis, Stefan Kriebel, Benjamin Pruenster, Bernhard Rumpe and Karin Samira Salman. "Applying Product Line Testing for the Electric Drive System". (IT)

### S2: Domain Implementation

- Thomas Thüm, Alexander Knüppel, Stefan Krüger, Stefanie Bolle and Ina Schaefer. "Feature-Oriented Contract Composition". (JFT)
- Luiz Carvalho, Alessandro Garcia, Wesley Assunção, Rodrigo Bonifácio, Leonardo Tizei and Thelma Elita Colanzi. "Extraction of Configurable and Reusable Microservices from Legacy Systems: an Exploratory Study". (IT)
- Majid Makki, Dimitri Van Landuyt, Bert Lagaisse and Wouter Joosen. "A Comparative Study of Workflow Customization Strategies: Quality Implications for Multi-tenant SaaS". (JFT)
- Marc Dahlem, Ricarda Rahm and Martin Becker. "App Variants and their Impact on Mobile Architecture: an Experience Report". (IT)

### S3: Solution-Space Analysis

- Maurice H. ter Beek, Ferruccio Damiani, Michael Lienhardt, Franco Mazzanti and Luca Paolini. "Static Analysis of Featured Transition Systems". (RT)
- Carlos Diego Nascimento Damasceno, Mohammadreza Mousavi and Adenilso Simao. "Learning From Difference: An Automated Approach for Learning Family Models From Software Product Lines". (RT)
- Andre Luiz Peron Martins Lanna, Thiago Castro, Vander Alves, Genaina Rodrigues, Pierre-Yves Schobbens and Sven Apel. "Feature-Family-Based Reliability Analysis of Software Product Line". (JFT)
- Lea Gerling and Klaus Schmid. "Variability-Aware Semantic Slicing Using Code Property Graphs". (RT)

### S4: Challenges and Solutions

- Javad Ghofrani, Ehsan Kozegar, Anna Lena Fehlhaber, and Mohammad Divband Soorati. "Applying Product Line Engineering Concepts to Deep Neural Networks".
- Tobias Pett, Thomas Thüm, Tobias Runge, Sebastian Krieter, Malte Lochau, and Ina Schaefer. "Product Sampling for Product Lines: The Scalability Challenge".
- Jeho Oh, Paul Gazzillo and Don Batory. "t-wise Coverage by Uniform Sampling".

- Richard Müller and Ulrich Eisenecker. "A Graph-based Feature Location Approach using Set Theory".
- Gabriela Karoline Michelin, Lukas Linsbauer, Wesley Klewerton Guez Assunção and Alexander Egyed. "Comparison-Based Feature Location in ArgoUML Variants".
- Jamel Debbiche, Oskar Lignell, Jacob Krüger and Thorsten Berger. "Migrating Java-Based Apo-Games into a Composition-Based Software Product Line".
- Jonas Åkesson, Sebastian Nilsson, Jacob Krüger and Thorsten Berger. "Migrating the Android Apo-Games into an Annotation-Based Software Product Line".

#### S5: Emerging Application Areas

- Mikaela Cashman, Justin Firestone, Myra Cohen, Thammasak Thianniwet and Wei Niu. "DNA as Features: Organic Software Product Lines". (RT)
- Salah Ghamizi, Maxime Cordy, Mike Papadakis and Yves Le Traon. "Variability Modelling and Search-Based Configuration of Deep Neural Networks". (RT)
- Thomas Kühn, Walter Cazzola, Nicola Pirritano Giampietro and Massimiliano Poggi. "Piggyback IDE Support for Language Product Lines". (RT)
- Christian Wolschke, Martin Becker, Sören Schneickert, Rasmus Adler and John MacGregor. "Industrial Perspective on Reuse of Safety Artifacts in Software Product Lines". (IT)

#### S6: Community Efforts

- Juha-Pekka Tolvanen and Steven Kelly. "How Domain-Specific Modeling Languages Address Variability in Product Line Development: Investigation of 23 cases". (IT)
- José Miguel Horcas Aguilera, Mónica Pinto and Lidia Fuentes. "Software Product Line Engineering: A Practical Experience". (RT)
- Daniel Strüber, Mukelabai Mukelabai, Jacob Krüger, Stefan Fischer, Lukas Linsbauer, Jabier Martinez and Thorsten Berger. "Facing the Truth: Benchmarking the Techniques for the Evolution of Variant-Rich Systems". (RT)
- Rick Rabiser, Klaus Schmid, Martin Becker, Goetz Botterweck, Matthias Galster, Iris Groher and Danny Weyns. "Industrial and Academic Software Product Line Research at SPLC: Perceptions of the Community". (RT)

#### S7: Requirements Engineering

- Masaki Asano, Yoichi Nishiura, Tsuneo Nakanishi and Keiichi Fujiwara. "Feature Oriented Refinement from Requirements to System Decomposition: Quantitative and Accountable Approach". (IT)
- Yan Li, Tao Yue, Shaukat Ali and Li Zhang. "Enabling automated requirements reuse and configuration". (JFT)

#### S8: Tool Demonstrations

- Sina Entekhabi, Anton Solback, Jan-Philipp Steghöfer and Thorsten Berger. "Visualization of Feature Locations with the Tool FeatureDashboard".

- Johann Mortara, Xhevahire Tërnavá and Philippe Collet. “symfinder: A Toolchain for the Identification and Visualization of Object-Oriented Variability Implementation”.
- Dennis Reuling, Christopher Pietsch, Udo Kelter and Manuel Ohrndorf. “FlexiPLE – A Tool for Flexible Binding Times in Annotated Model-Based SPLs”.
- Daniel Jesus Munoz Guerra, Mónica Pinto and Lidia Fuentes. “HADAS: Variability And Non-Functional Quality Attributes Tool”.
- Oscar Diaz, Raul Medeiros and Leticia Montalvillo. “Change Analysis of #if-def blocks with FeatureCloud”.
- David Baum, Christina Sixtus, Lisa Vogelsberg and Ulrich Eisenecker. “Understanding Conditional Compilation through Integrated Representation of Variability and Source Code”.
- Sascha El-Sharkawy, Adam Krafczyk and Klaus Schmid. “MetricHaven – More than 23,000 Metrics for Measuring Quality Attributes of Software Product Lines”.
- Alessandro Fantechi, Stefania Gnesi and Laura Semini. “Applying the QuARS tool to detect variability”.
- Jorge Rodas-Silva, José A. Galindo, Jorge García-Gutiérrez and David Benavides. “RESDEC: Online Management Tool for Implementation Components Selection in Software Product Lines using Recommender Systems”.
- Danilo Beuche. “Industrial Variant Management with pure::variants”.
- Juha-Pekka Tolvanen and Steven Kelly. “Applying Domain-Specific Languages in Evolving Product Lines”.
- Paul Clements and Charles Krueger. “Feature-Based Systems and Software Product Line Engineering with Gears from BigLever”.

#### S9: Metrics and Refactoring

- Christopher Pietsch, Udo Kelter, Timo Kehrer and Christoph Seidl. “Formal Foundations for Analyzing and Refactoring Delta-Oriented Model-Based Software Product Lines”. (RT)
- Kai Ludwig, Jacob Krüger and Thomas Leich. “Covert and Phantom Features in Annotations: Do They Impact Variability Analysis?”. (RT)
- Xhevahire Tërnavá, Johann Mortara and Philippe Collet. “Identifying and Visualizing Variability in Object-Oriented Variability-Rich Systems”. (RT)
- Sascha El-Sharkawy, Nozomi Yamagishi-Eichler and Klaus Schmid. “Metrics for Analyzing Variability and Its Implementation in Software Product Lines: A Systematic Literature Review”. (JFT)

#### S10: Feature-Model Evolution

- Imke Drave, Oliver Kautz, Judith Michael and Bernhard Rumpe. “Semantic Evolution Analysis of Feature Models”. (RT)
- Paolo Arcaini, Angelo Gargantini and Marco Radavelli. “Achieving change requirements of feature models by an evolutionary approach”. (JFT)
- Elias Kuitert, Sebastian Krieter, Jacob Krüger, Thomas Leich and Gunter Saake. “Foundations of Collaborative, Real-Time Feature Modeling”. (RT)

#### S11: Configuration and Sampling

- Ángel Jesús Varela-Vaca, José A. Galindo, Belén Ramos-Gutiérrez, María Teresa Gómez-López and David Benavides. “Process Mining to Unleash Variability Management: Inferring Configuration Workflows Using Logs”. (RT)
- Paul Temple, Mathieu Acher, Gilles Perrouin, Battista Biggio, Jean-Marc Jézéquel and Fabio Roli. “Generating Adversarial Configurations for Quality Assurance of Software Product Lines”. (RT)
- Daniel-Jesus Munoz, Jeho Oh, Mónica Pinto, Lidia Fuentes and Don Batory. “Uniform Random Sampling Product Configurations of Feature Models That Have Numerical Features”. (RT)

#### S12: Problem-Space Analysis

- José A. Galindo, David Benavides, Pablo Trinidad, Antonio-Manuel Gutierrez-Fernandez and Antonio Ruiz-Cortés. "Automated analysis of feature models: Quo vadis?". (JFT)
- David Fernandez-Amoros, Ruben Heradio, Christoph Mayr-Dorn and Alexander Egyed. “A Kconfig Translation to Logic with One-Way Validation System”. (RT)
- Slawomir Duszynski, Saura Jyoti Dhar and Tobias Beichter. “Using Relation Graphs for Improved Understanding of Feature Models in Software Product Lines”. (IT)