



DESRIST 2015.

Tenth International Conference on
Design Science Research in Information Systems and Technology.

20-22 May, Clontarf Castle, Dublin, Ireland.

Programme

| Time | Wednesday 20th of May | Location |
|---------------|---|-----------------------------|
| 09:00 – 12:30 | Doctoral consortium | <i>The Dalcassian Suite</i> |
| 12:30-13:30 | Lunch | <i>Indigo Lounge</i> |
| 13:30-17:00 | Doctoral consortium | <i>The Dalcassian Suite</i> |
| 19:00 – 20:00 | Registration for DESRIST Conference | <i>The Great Hall Foyer</i> |
| 19:00 – 21:00 | Opening reception | <i>Indigo Lounge</i> |

| Time | Thursday 21st of May | Location | Duration |
|-------------|--|--|-----------------|
| 08:00-18:00 | Registration | <i>The Great Hall Foyer</i> | 1:00:00 |
| 09:00 | Welcome and Opening – Programme Chairs <i>Brian Donnellan, Markus Helfert, Jim Kenneally</i> | <i>The Great Hall</i> | 00:30 |
| 09:30 | Keynote Presentation 1 | <i>The Great Hall</i> | 1:00:00 |
| 10:30 | Panel Session #1: Toward a Consensus View of Design Science Research Guidelines, Expectations, and Standards <i>John Venable, Richard Baskerville, Samir Chatterjee, Shirley Gregor, Alan Hevner, Sandeep Purao, and Robert Winter</i> | <i>The Great Hall</i> | 1:00:00 |
| 11:30 | Coffee Break | <i>The Great Hall Foyer</i> | 00:15 |
| 11:45 | Parallel paper sessions 1 | <i>The Great Hall, The Dalcassian Suite & The Tara Suite</i> | 01:30 |
| 13:15 | Lunch | <i>Indigo Lounge</i> | 01:00 |
| 14:15 | Parallel paper sessions 2 | <i>The Great Hall, The Dalcassian Suite & The Tara Suite</i> | 01:30 |
| 15:45 | Coffee Break | <i>The Great Hall Foyer</i> | 00:15 |
| 16:00 | Posters and Prototype demonstrations | <i>The Great Hall (back of the room)</i> | 01:00 |
| 17:00 | Award - Distinguished Contributor | <i>The Great Hall</i> | 00:15 |
| 17:15 | Panel Session #2: Publishing Design Science <i>Amit Basu, Paulo Goes, Sumit Sarkar, Martin Bichler</i> | <i>The Great Hall</i> | 1:00:00 |
| 18:15 | Day 1 close | <i>The Great Hall</i> | |
| 19:30 | Conference Dinner | <i>The Great Hall</i> | |

| | Friday 22nd of May | Location | Duration |
|-------------|--|-----------------------------|-----------------|
| 08:00-18:00 | Registration | <i>The Great Hall Foyer</i> | 1:00:00 |
| 09:00 | Keynote Presentation 2 | <i>The Great Hall</i> | 01:00 |
| 10:00 | Parallel paper sessions 3 | <i>The Viking Suite</i> | 01:30 |
| 11:30 | Coffee Break | <i>The Great Hall Foyer</i> | 00:15 |
| 11:45 | Parallel paper sessions 4 | <i>The Viking Suite</i> | 01:30 |
| 13:15 | Lunch | <i>Indigo Lounge</i> | 01:00 |
| 14:15 | Parallel paper sessions 5 | <i>The Viking Suite</i> | 01:45 |
| 16:00 | Coffee Break | <i>The Great Hall Foyer</i> | 00:30 |
| 16:30 | Panel Session 3: Designing Organizational Work and Information Technology: Quo Vadis? <i>Sandeep Puroo, Maung Sein, Richard Baskerville and Jungwoo Le</i> | <i>The Great Hall</i> | 01:00 |
| 17:30 | Awards - Best Paper | <i>The Great Hall</i> | 00:15 |
| 17:45 | Closing Remarks and Call for DESRIST 2016 | <i>The Great Hall</i> | 00:15 |
| 18:00 | Day 2 close | <i>The Great Hall</i> | |

Session 1: Thursday 21st of May 11:45-13:15

Design Science Research in Action I: Thursday 21st of May 11:45-13:15 at The Viking Suite (a)

- **Designing an Enterprise Social Questions and Answers Site to Enable Scalable User-to-User Support** - *Oliver Gass, Gülcan Öztürk, Silvia Schacht and Alexander Maedche* (30min)
- **Real time bidding in online digital advertisement** - *Shalinda Adikari and Kaushik Dutta* (30min)
- **Extending Battery Management Systems for Making Informed Decisions on Battery Reuse** - *Markus Monhof, Daniel Beverungen, Benjamin Klör and Sebastian Bräuer* (20min)

Meta Perspectives I: Thursday 21st of May 11:45-13:15 at The Viking Suite(b)

- **Entering Action Design Research** - *Matthew Mullarkey and Alan Hevner* (30min)
- **Proposal for Requirements Driven Design Science Research** - *Richard Braun, Martin Benedict, Hannes Wendler and Werner Esswein* (30min)
- **Guidelines for Establishing Instantiation Validity in IT Artifacts** - *Roman Lukyanenko, Joerg Evermann and Jeffrey Parsons* (20min)

Data Mining and Analytics: Thursday 21st of May 11:45-13:15 at The Viking Suite (c)

- **NavigTweet: A Visual Tool for Influence-based Twitter Browsing** - *Chiara Francalanci and Ajaz Hussain* (30min)
- **A Continuous Markov-Chain Model of Data Quality Transition: Application in Insurance-Claim Handling** - *Yuval Zak and Adir Even* (30min)
- **Decision Support for Succession Management Conferences using Mobile Applications – Results from the 3rd Iteration of a Design Science Research Project** - *Christian Tornack, Björn Pilarski and Matthias Schumann* (20min)

Session 2: Thursday 21st of May 14:15-15:45

Governance and Responsibility I: Thursday 21st of May 14:15-15:45 at The Viking Suite (a)

- **Information System Design Space for Sustainability** - *Moyen Mohammad Mustaqim and Tobias Nystrom* (30min)
- **Visionary design research: Renewing e-government support for business set up** - *Goran Goldkuhl, Anders Persson and Annie Rostlinger* (30min)
- **Analyzing Corporate Social Responsibility Reports using Unsupervised and Supervised Text Data Mining** - *Monica Chiarini Tremblay, Carlos M Parra and Arturo Castellanos* (20min)

Meta Perspectives II: Thursday 21st of May 14:15-15:45 at The Viking Suite (b)

- **A Postmodern Perspective on Socio-technical Design Science Research in Information Systems** - *Andreas Drechsler* (30min)
- **Agile Design Science Research** - *Kieran Conboy, Rob Gleasure and Eoin Cullina* (30min)

- **IS Success Awareness in Community-Oriented Design Science Research-** *Dominik Renzel, Ralf Klamma and Matthias Jarke (20min)*

Understanding Users I: Thursday 21st of May 14:15-15:45 at The Viking Suite (c)

- **Enabling reproducible Sentiment Analysis: A hybrid domain-portable Framework for Sentiment Classification** - *Matthias Eickhoff (30min)*
- **Improving Customer Centric Design for Self Service Predictive Analytics** - *Colm Thornton and Brian O Flaherty (30min)*
- **Effectuation and Its Implications for Socio-Technical Design Science Research in Information Systems:** *Andreas Drechsler and Alan Hevner (20min)*

Prototype and Poster Display

Prototype Display: Thursday 21st of May 16:00-17:00 at The Great Hall (back of the room)

- **icebricks - Mobile Application for Business Process Modeling** - *Jörg Becker, Nico Clever, Justus Holler and Maria Shitkova*
- **Supporting LIFE: Mobile Health Application for Classifying, Treating and Monitoring Disease Outbreaks of Sick Children in Developing Countries** - *Yvonne O'Connor, Victoria Hardy, Ciara Heavin, Joe Gallagher and John O' Donoghue*
- **A Prototype for Supporting Novices in Collaborative Business Process Modeling using a Tablet Device** - *Christian Ritter, Josef-Michael Schwaiger and Florian Johannsen*
- **CollaborGeneous: A Framework of Collaborative IT-Tools for Heterogeneous Groups of Learners** - *Amir Haj-Bolouri, Lennarth Bernhardsson and Patrik Bernhardsson*
- **InsightGame: Designing a Market Research Game to Gain Better Insights into Purchase Decision Processes** - *Silke Plennert and Susanne Robra-Bissantz*
- **The Social Newsroom: Visual Analytics for Social Business Intelligence** - *Chris Zimmerman and Ravi Vatrapu*
- **A Mobile Cloud Workforce Management System for SMEs** - *Leonard Heilig and Stefan Voss*
- **Smart City App** - *Joana Monteiro, Matthew Austin, Gaurav Mandilwar and Raj Sharman*
- **Considering Risks in Planning and Budgeting Process – A Prototype Implementation in the Automotive Industry** - *Tobias Knabke, Sebastian Olbrich and Lars Biederstedt*
- **ITSM ProcessGuide – A Process Guidance System for IT Service Management** - *Stefan Morana, Timo Gerards and Alex Maedche*

Poster Display: Thursday 21st of May 16:00-17:00 at The Great Hall (back of the room)

- **Ontological Representation of Design Science Research Publications** - *Emanuel Reiterer, John Venable and Torsten Reiners.*
- **Achieving continuous professional development in higher education** - *Munir Mandviwalla, David Schuff and Kartik Ganju.*
- **A support system for mentors of novice entrepreneurs** - *Riccardo Bonazzi and Michaël Poli.*
- **The MIND Canvas - Towards IS Capability Assessment** - *Abayomi Baiyere and Hannu Salmela.*
- **Designing an Interactive Assessment Instrument to Improve the Process for Mobile Service Application Innovation** - *Karen Carey and Markus Helfert.*
- **Towards a Cross- sectional View on Online-Research in Information Systems** - *Olga Levina and Martin Wochatz*

Session 3: Friday, 22nd of May 10:00-11:30

Understanding Users II: Friday, 22nd of May 10:00-11:30 at The Viking Suite (a)

- **Communication Artifacts for Requirements Engineering** - *Miloslava Plachkinova, Ken Peffers and Greg Moody* (30min)
- **Activity Patterns in the Design Processes of Information Technology Standards** - *Sandeep Purao, Karthikeyan Umapathy and John Bagby* (20min)
- **Practice-Based Personas: Integrated User and Practice Models**: *Ciaran O'Leary, Fred Mtenzi and Claire McAvinia* (20min)
- **How can we Design Products, Services and Software That Reflect the Needs of our Stakeholders? Towards a Canvas for More Successful Requirements Engineering** - *Christian Ruf and Andrea Back* (20min)

Governance and Responsibility II: Friday, 22nd of May 10:00-11:30 at The Viking Suite (b)

- **Design Science in Practice: Design and Evaluation of an Art Based Information System to improve Indoor Air Quality at Schools**: *Paul Rigger, Felix Wortmann and André Dahlinger* (30min)
- **Planning a Portfolio of Controls for Software Development** - *Onkar Malgonde, Alan Hevner and Rosann Webb Collins* (20min)
- **ITSM ProcessGuide – A Longitudinal and Multi-Method Field Study for Real-World DSR Artifact Evaluation**: *Stefan Morana, Silvia Schacht, Timo Gerards and Alexander Mädche* (20min)

Designing for the Future I: Friday, 22nd of May 10:00-11:30 at The Viking Suite (c)

- **Artifact-Centered Planning and Assessing of Large Design Science Research Projects – A Case Study**: *Gerald Daeuble, Michael Werner and Markus Nuettgens* (30min)
- **Design Principles for an Enterprise Systems Chartering Method**: *Martin Berner, Jan Gansen and Alexander Mädche* (20min)
- **Shipping Information Pipeline: Initial Design Principles**: *Thomas Jensen and Ravi Vatrapsu* (20min)

Session 4: Friday, 22nd of May 11:45-13:15

Meta perspectives III: Friday, 22nd of May 11:45-13:15 at The Viking Suite (a)

- **Projecting the future for design science research: An action case-based analysis** -*Richard Baskerville and Jan Pries-Heje* (30min)
- **Action Design Research: A Comparison with Canonical Action Research and Design Science**: *Giovanni Maccani, Brian Donnellan and Markus Helfert* (20min)
- **Empirical Grounding of Design Science Research Methodology**: *Stefan Cronholm and Hannes Göbel* (20min)

Design and Innovation: Friday, 22nd of May 11:45-13:15 at The Viking Suite (b)

- **The Front End of Innovation: Perspectives on Creativity, Knowledge, and Design** : *Shirley Gregor and Alan Hevner* (30min)
- **Development of Augmented Reality Application using Embedded Sensors of Smart Devices**: *Ondrej Krejcar* (20min)
- **Supporting Participatory Innovation through Introductory Tools** - *Muhammad Mustafa Hassan, Andrés Moreno, Erkki Sutinen and Abdul Aziz* (20min)

Design Science Research in Action II: Friday, 22nd of May 11:45-13:15 at The Viking Suite (c)

- **Designing a Report Recommendation Assistant: A First Design Cycle**: *Martin Kretzer, Max Kleinedler, Christian* (30min)
- **Toward a Taxonomy of Wearable Technologies in Healthcare**: *Mayda Alrige and Samir Chatterjee* (20min)
- **Impact of Text Mining Application on Financial Footnotes Analysis: a Comparison of Text Classification Algorithms**: *Maryam Heidari and Carsten Felden* (20min)

Session 5: Friday, 22nd of May 14:15-16:00

Designing for the Future II: Friday, 22nd of May 14:15-16:00 at The Viking Suite (a)

- **Unpacking the artifact knowledge: Secondary Data Analysis in Design Science Research**: *Mateusz Dolata, Mehmet Kilic and Gerhard Schwabe* (30min)
- **Design Science for Future AIS: Transferring Continuous Auditing Issues to a Gradual Methodology**: *Andreas Kiesow, Novica Zarvic and Oliver Thomas* (30min)
- **Exploring an agent as an economic insider threat solution**: *Betina Tagle and Henry Felch* (20min)
- **CloudNeg: An Autonomous Multi Issue Negotiation System, with Preference Elicitation Component, for Trading Cloud Services**: *Aseem Pahuja, Rangaraja P Sundarraj and Venkataraghavan Krishnaswamy* (20min)

Design Science Research in Action III: Friday, 22nd of May 14:15-16:00 at The Viking Suite (b)

- **Multi-Criteria Selection in Design Science Projects – A Procedure for Selecting Foresight Methods at the Front End of Innovation**: *Patrick Brandtner, Markus Helfert, Andreas Auinger and Kurt Gaubinger* (30min)
- **Biased Group Decision Making and the Effect of Computer-Mediated Communication: Separating the effects of Anonymity, Voting and Blind Picking**: *Jens Lamprecht and Susanne Robra-Bissantz* (20min)
- **Developing a Health and Wellbeing Platform in a Living Lab Setting: An Action Design Research Study**: *Wally Keijzer-Broers, Mark De Reuver, Nick Guldemond and Lucas Florez* (20min)
- **Towards a Situation-Awareness-Driven Design of Operational Business Intelligence & Analytics Systems**: *Mario Nadj, Stefan Morana and Alexander Mädche* (20min)

Meta perspectives IV: Friday, 22nd of May 14:15-16:00 at The Viking Suite (c)

- **Five and Ten Years On: Have DSR Standards Changed?** *John Venable* (30min)
- **Design History: Exploring Corporate Communities:** *Dirk Hovorka, Matt Germonprez and Matt Levy* (20min)
- **Biomimetics in Design-Oriented Information Systems Research:** *Michael Alexander Kaufmann and Edy Portmann* (20min)
- **Dealing With Emergent Design Science Research Projects in IS:** *Henri Pirkkalainen* (20min)