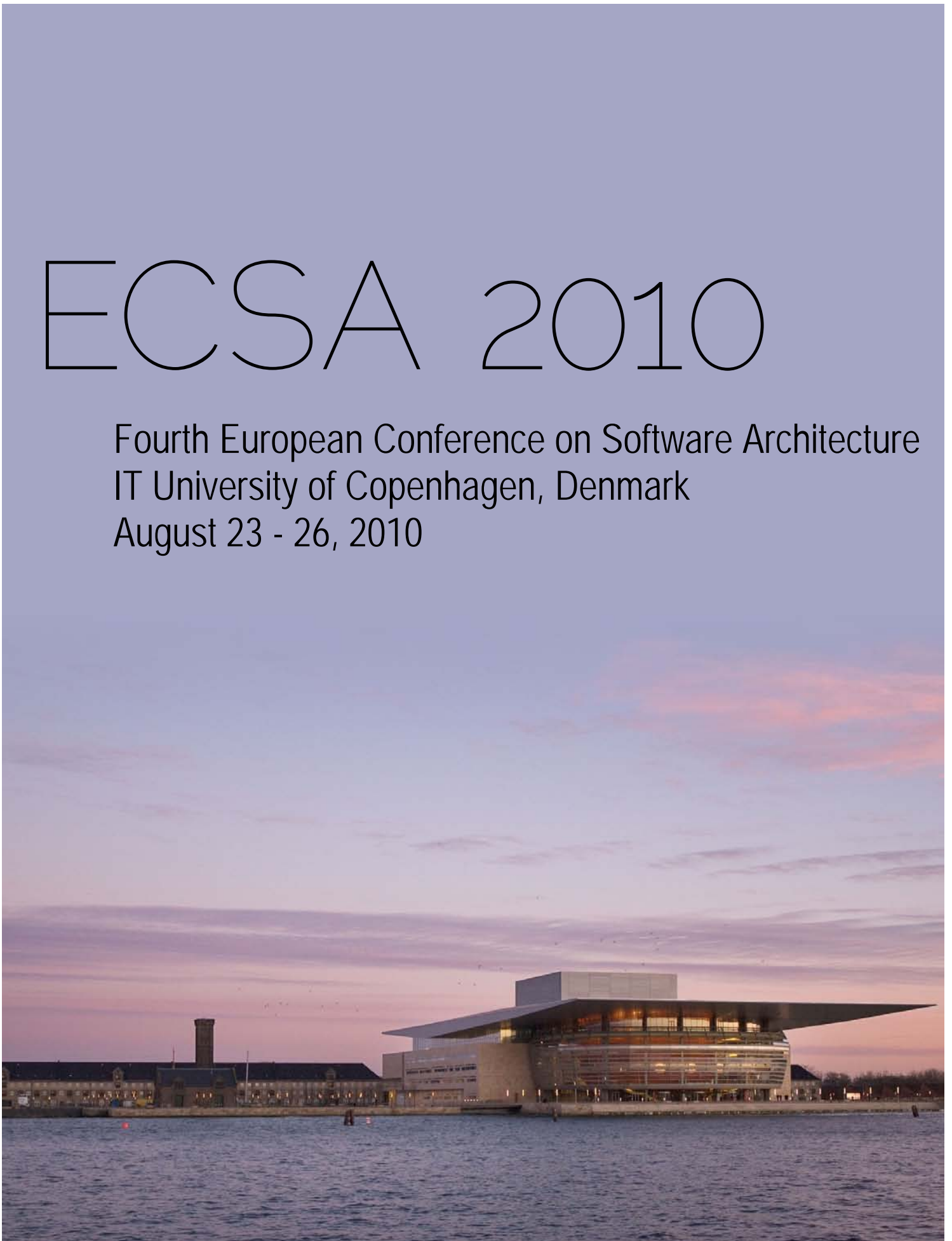


# ECSA 2010

Fourth European Conference on Software Architecture  
IT University of Copenhagen, Denmark  
August 23 - 26, 2010



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### **Digital Media Chair:**

Hataichanok Unphon (IT University of Copenhagen, Denmark)

# Programme

## Monday, 23 August 2010

08:30 - 09:00	Registration				
	Workshops		Doctoral Symposium	Tutorials	
	1 day	1 1/2 day	1 day	1/2 day	1 day
09:00 - 10:30			Room: 3A07	Requirements Engineering Meets Architecture - An Integrated Approach <i>Isabel John and Anne Gross</i>	
10:30 - 11:00 Coffee Break			A model-driven approach for managing software architectures with multiple evolving concerns, <i>Ivano Malavolta</i>	Room: 3A18	
11:00 - 12:30	2nd Workshop on Software Ecosystems Room: 2A14		Capturing exploration to improve software architecture documentation, <i>Moon Ting Su</i>		
12:30 - 13:30 Lunch	1st International Workshop on Measurability of Security in Software Architectures Room: 2A18	8th Nordic Workshop on Model Driven Software Engineering Room: 4A16	Tacit Architectural Knowledge, <i>Dan Tofan</i>		
13:30 - 15:30	1st International Workshop on Variability in Software Product Line Architecture Room: 3A14	<b>NB:</b> - Will start at 11:00 on the 24th until about 15:00	Model-Based Enhancement of Software Performance for Precision Critical Systems, <i>Naeem Muhammad</i>	1/2 day	Architectural rendering with ISO/IEC 42010 <i>Rich Hilliard</i> Room: 3A08
15:30 - 16:00 Coffee Break			Architectural Abstractions for Space and Time Awareness: the case of Responsive Environments, <i>Diego Bernini</i>		
16:00 - 17:00			Robustness and Scalability -- A Dual Challenge for Autonomic Architectures, <i>Bogdan Caprarescu</i>	Software Architecture Knowledge Management in Practice Philippe Kruchten and Paris Avgeriou Room: 3A01	
			Architectural Mismatch Issues in Identity Management Deployment, <i>Mads Schaarup Andersen</i>		

# Programme

**Tuesday, 24 August 2010**

**Auditorium 1**

08:30 - 09:00	<b>Registration</b>	
09:00 - 09:30	<b>Welcome - Mads Tofte</b> <b>Opening - Ian Gorton</b> <b>Program - M. Ali Babar</b>	
09:30 - 10:30	<b>Keynote: Jan Bosch - Chair: Ian Gorton</b>	
10:30 - 11:00	<b>Coffee Break</b>	
11:00 - 12:30	<b>Session 1 - Architectural Design Decisions</b> <b>Chair: Patricia Lago</b>  The Customer Value in Architecture Decision Making <i>Ana Ivanovic and Pierre America</i>  Impact Evaluation for Quality-Oriented Architectural Decisions Regarding Evolvability <i>Stephan Bode and Matthias Riebisch</i>  Linking Design Decisions to Design Model in Model-based Software Development <i>Patrick Könemann and Olaf Zimmermann</i>	
12:30 - 13:30	<b>Lunch</b>	
13:30 - 15:00	<b>Session 2 - Empirical Studies</b> <b>Chair: Sam Malek</b>  Naive architecting - Understanding the Reasoning Process of Students - A Descriptive Survey <i>Uwe van Heesch and Paris Avgeriou</i>  Flexible Working Architectures: Agile Architecting using PPCs <i>Jennifer Perez, Jessica Diaz, Juan Garbajosa and Pedro P. Alarcón</i>  Lightweight and Continuous Architecture Software Quality Assurance using the aSQA Technique <i>Henrik Bærbak Christensen, Klaus Marius Hansen and Bo Lindstrøm</i>	
15:00 - 15:30	<b>Coffee Break</b>	
15:30 - 17:00	<b>Parallel Session 3 - Architectural Styles and Patterns</b> <b>Chair: Tomi Männistö</b> <b>Auditorium 1</b>  Mediating Connector Patterns for Components Interoperability <i>Romina Spalazzese and Paola Inverardi</i>  Assessing the Impact of AOP on Layered Software Architectures <i>Juliana Saraiva, Sérgio Soares and Fernando Castor</i>  Facilitating the selection of architectural patterns by means of a marked requirements model <i>Jose Javier Berrocal Olmeda, Jose Manuel Garcia Alonso and Juan Manuel Murillo Rodriguez</i>  Independently Extensible Contexts <i>Martin Rytter and Bo Nørregaard Jørgensen</i>  On the Role of Architectural Styles in Improving the Adaptation Support of Middleware Platforms <i>Naeem Esfahani and Sam Malek</i>  Mining Relationships Between the Participants of Architectural Patterns <i>Ahmad Waqas Kamal and Paris Avgeriou</i>	<b>Parallel Session 3B - Architectural Models I</b> <b>Chair: Laurence Duchien</b> <b>Auditorium 2</b>  Architecture-centric component-based development needs a three-level ADL <i>Huaxi (Yulin) Zhang, Christelle Urtado and Sylvain Vauttier</i>  BeeEye: A Framework for Constructing Architectural Views <i>Hervé Verjus, Sorana Cimpan, Azadeh Razavizadeh and Stéphane Ducasse</i>  Modelling Changes and Data Transfers for Architecture-based Runtime Evolution of Distributed Applications <i>An Phung-Khac, Jean-Marie Gilliot, Maria-Teresa Segarra, Antoine Beugnard and Eveline Kabore</i>
18:00	<b>Conference Reception – Copenhagen City Hall</b>	

# Programme

Wednesday, 25 August 2010

Auditorium 1

09:00 - 10:00	<b>Keynote: Philippe Kruchten - Chair: Flavio Oquendo</b>	
10:00 - 11:00	<b>Coffee Break &amp; Poster Session - Chair: Andrzej Wasowski</b>	
11:00 - 12:30	<p><b>Session 4 - Architectural Models II</b>  <b>Chair: Jennifer Perez</b></p> <p>An ADL-approach to Specifying and Analyzing Centralized-mode Architectural Connection  <i>Guoxin Su, Mingsheng Ying and Chengqi Zhang</i></p> <p>Functional Architecture Modeling for the Software Product Industry  <i>Sjaak Brinkkemper and Stella Pachidi</i></p> <p>Feature-based Composition of Software Architectures  <i>Carlos Parra, Anthony Cleve, Xavier Blanc and Laurence Duchien</i></p>	
12:30 - 13:30	<b>Lunch</b>	
13:30 - 15:00	<p><b>Parallel Session 5 - Architectural Knowledge</b>  <b>Chair: Paris Avgeriou</b>  <b>Auditorium 1</b></p> <p>Using domain knowledge to boost software architecture evaluation  <i>Veli-Pekka Eloranta and Kai Koskimies</i></p> <p>Explaining Architectural Choices to Non-Architects  <i>Diego Bernini and Francesco Tisato</i></p> <p>A Classification of Value for Software Architecture Decisions  <i>Ulrik Eklund and Thomas Arts</i></p> <p>Ontological Analysis for Generating Baseline Architectural Descriptions  <i>Arvind kiwelekar and Rushikesh Joshi</i></p> <p>Communicating Architectural Knowledge: Requirements for Software Architecture Knowledge Management Tools  <i>Stefan Eicker and Widura Schwittek</i></p> <p>Experiences in Making Architectural Decisions during the Development of a New Base Station Platform  <i>Juha Savolainen, Juha Kuusela, Tomi Männistö, and Aki Nyyssönen</i></p>	<p><b>Parallel Session 5B - Service-Oriented Architectures</b>  <b>Chair: Eila Ovaska</b>  <b>Auditorium 2</b></p> <p>Dynamic Architectural Constraints Monitoring and Reconfiguration in Service Architectures  <i>Jose John, Ming Xue Wang and Claus Pahl</i></p> <p>Reference Models and Reference Architectures Based on Service-Oriented Architecture: A Systematic Review  <i>Lucas Bueno Ruas Oliveira, Katia Romero Felizardo, Daniel Feitosa and Elisa Yumi</i></p> <p>Software Architecture Recovery Process Based on Object-Oriented Source Code and Documentation  <i>Sylvain Chardigny and Abdelhak-Djamel Seriai</i></p> <p>Context-aware Quality Model Driven Approach: A New Approach for Building Pervasive Systems  <i>Alti Adel</i></p> <p>Many to Many Service Discovery: a first Approach  <i>Anthony Hock-koon and mourad oussalah</i></p> <p>Specifying Loose Coupling from existing Service Composition Approaches  <i>Anthony Hock-koon and mourad oussalah</i></p>
15:00 - 15:30	<b>Coffee Break</b>	
15:30 - 17:00	<p><b>Session 6 - Dynamic and Adaptive Architectures</b>  <b>Chair: Claus Pahl</b></p> <p>A Model for Dynamic Reconfiguration in Service-oriented Architectures  <i>José Luiz Fiadeiro and Antónia Lopes</i></p> <p>Automated detection of least privilege violations in software architectures  <i>Riccardo Scandariato, Koen Buyens and Wouter Joosen</i></p> <p>A Formal Approach to Enforcing Consistency in Self-adaptive Systems  <i>Najla Hadj Kacem, Ahmed Hadj Kacem and Khalil Drira</i></p>	
18:00	<b>Canal tour and Conference Dinner</b>	

# Programme

**Thursday , 26 August 2010**

**Auditorium 2**

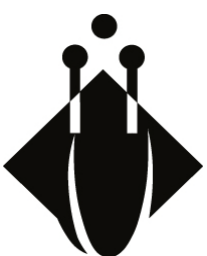
09:00 - 10:00	<b>Keynote: Jim Webber - Chair: M. Ali Babar</b>
10:00 - 11:00	<b>Coffee Break &amp; Poster Session - Chair: Andrzej Wasowski</b>
11:00 - 12:45	<p><b>Session 7 - Industry Track Papers</b> <b>Chair: Martin Naedele</b></p> <p>Unifying Software Architecture with its Implementation, <i>Eoin Woods and Nick Rozanski</i></p> <p>Stakeholder Identification and Quality Attribute Prioritization for a Global Vehicle Control System, <i>Ryan McGee, Ulrik Eklund and Mats Lundin</i></p> <p>Structuring Very Large Domain Models, <i>Harald Störrle</i></p> <p>Towards a Process Maturity Model for Evolutionary Architecting of Embedded System Product Lines, <i>Jakob Axelsson</i></p>
12:45 - 13:45	<b>Lunch</b>
13:45 - 15:15	<p><b>Session 8 - Design and Analysis</b> <b>Chair: Ronny Kolb</b></p> <p>Experiences from Scenario-Based Architecture Evaluations with ATAM <i>Ville Reijonen, Johannes Koskinen and Ilkka Haikala</i></p> <p>Architecting a Model-Driven Aspect-Oriented Product Line for a Digital TV Middleware: A Refactoring Experience <i>Diego Saraiva, Lucas Pereira, Thais Batista, Flávia Delicato, Paulo Pires, Uirá Kulesza, Rodrigo Araújo, Tássia Freitas, Sindolfo Miranda Filho, Ana Liz Souto and Roberta Coelho</i></p> <p>Integrating Requirements and Design Decisions in Architecture Representation <i>Rainer Weinreich and Georg Buchgeher</i></p>
15:15 - 15:45	<b>Coffee Break</b>
15:45 - 17:15	<p><b>Session 9 - Model Driven Approaches</b> <b>Chair: Danny Weyne</b></p> <p>An Architectural Approach to Composing Reputation-based Distributed Services, <i>Suronapee Phoomvuthisarn, Yan Liu and Liming Zhu</i></p> <p>An Architectural Blueprint for Model Driven Development and Maintenance of Business Logic for Information Systems <i>Tobias Brückmann and Volker Gruhn</i></p> <p>Towards Architecture-Centric Software Generation <i>Chung-Horng Lung, Balasagar Balasubramaniam, Kamalachelva Selvarajah, Poopalasinkam Elankeswaran and Umatharan Gopalasundaram</i></p>
17:15 - 17:30	<b>Closing Plenary</b>

# Cloud Computing Demystified Day

Friday , 27 August 2010

Mikado House

08:30 - 09:00	Registration
09:00 - 09:15	Welcome - Jørgen Staunstrup (Provost ITU) Introduction – M. Ali Babar
09:15 - 10:00	Keynote: Chris Swan – From Financial Services to Finance as a Service – How Cloud will transform banking
10:00 - 10:30	Lighting talks
10:30 - 11:00	Coffee break
11:00 - 11:45	Keynote: Herbjörn Wilhelmsen – Data in the Cloud
11:45 - 12:30	Gold fish panel
12:30 - 13:30	Lunch
13:30 - 14:15	Keynote: Jim Reavies – Industry Efforts to Secure Cloud Computing
14:15 - 14:30	Jakob Illeborg Pagter – Secure Multiparty Computation or: How I learned to stop worrying and love the cloud
14:30 - 15:00	Lighting talks
15:00 - 15:30	Coffee Break
15:30 - 16:15	Keynotes: Harri Mattila and Dmitri Girenko – Towards business and information driven efficient infrastructure
16:15 - 16:45	Gold fish panel
16:45 – 17:00	Plenary closing
17:00 - 19:00	Drinks and Networking



# IT University of Copenhagen



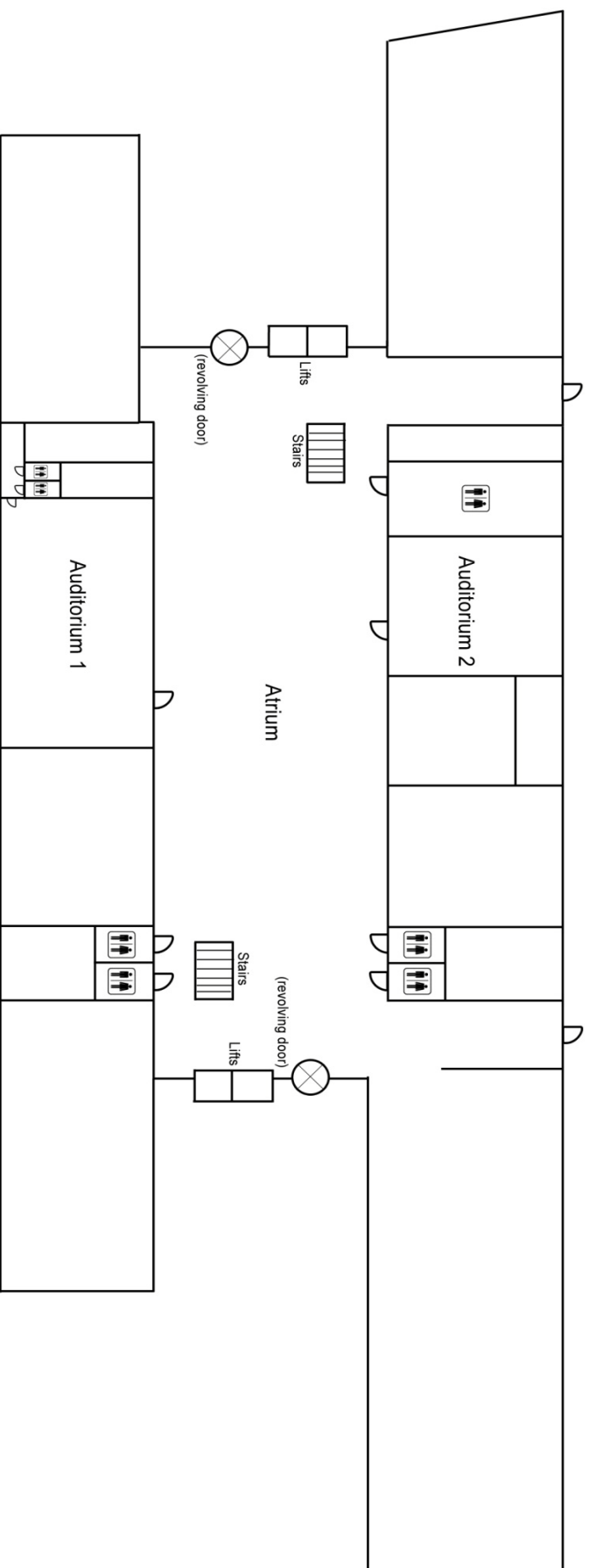
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## IT University of Copenhagen floorplan - Ground floor