

The 19<sup>th</sup> International Conference on Digital Government Research

# DG.O 2018

Governance in the Data Age



## 19th Annual International Conference on Digital Government Research

**Governance in the Data Age**

May 30 – June 1, 2018

Delft University of Technology, The Netherlands

## Conference Program



# Program - Wednesday May 30

7.30		Registration <i>Aula TU Delft Address: Mekelweg 5, 2628 CC Delft</i>		
8.00	<b>PhD colloquium</b>			
9.00	<i>Commissiekamer 2</i>	<b>Workshop 1: Exploring the Political, Social and Cultural Challenges and Possibilities Associated with Trading Data: The Case of Data Market Austria (DMA)</b> <i>Commissiekamer 4</i>		<b>Paper session 1: Data Sharing and Analytics to Address Societal Challenges</b> <i>Commissiekamer 3</i>
10.30	Coffee break, group photos <i>Foyer</i>			
11.00	<b>PhD colloquium</b>	<b>Workshop 2: Using Problem-based Learning and Learning Analytics in Open Data Education</b> <i>Commissiekamer 4</i>	<b>Workshop 4: How to improve policy making using open data in Virtual Research Environments? An interactive workshop discussing privacy, security and trust strategies</b> <i>Commissiekamer 1</i>	<b>Paper session 2: Public Governance and Policy in the Sharing Era</b> <i>Commissiekamer 3</i>
12.30	Lunch <i>Foyer</i>			
13.30	<b>PhD colloquium</b>	<b>Workshop 3: Theory and Practice of Linked Open Statistical Data</b> <i>Commissiekamer 4</i>	<b>Workshop 5: Opportunities and Challenges in the Intelligent Society: Smart Cities, Digital Inclusion, and Cybersecurity</b> <i>Commissiekamer 1</i>	<b>Paper session 3: Open and Big Data Analytics in Government: Pathways from Insights to Public Value</b> <i>Commissiekamer 3</i>
15.30	Walk to panel/ quick coffee	Coffee break <i>Foyer</i>		
16.00	<b>Panel 1: What makes a good journal article</b> <i>Frans van Hasseltzaal</i>			<b>Paper session 4: Open and Big Data Analytics in Government: Pathways from Insights to Public Value</b> <i>Commissiekamer 3</i>
17.00	Walk to Porceleynse Fles (10 minutes)			
17.15	Welcome reception, sponsored by 4TU.Centre for Research Data <i>De Porceleynse Fles</i>			
20.00	PhD Colloquium Dinner ( <i>only for PhD colloquium participants</i> )			

Wednesday May 30

Wed 7:30 - 9:00  
Registration

Registration desk, ground floor, Aula TU Delft  
Address: Mekelweg 5, 2628 CC Delft

Wed 8:00 – 10:30

**PhD colloquium**

**Room: Commissiekamer 2**

Chairs: Ramon Gill-Garcia, Ida Lindgren, Sharon Dawes

- 8:00-8:15 Introduction
- 8:15-9:00 Paper 1: Purwanto presents Gupta
- 9:00-9:45 Paper 2: Gupta presents Maniam
- 9:45-10:30 Paper 3: Maniam presents Muller

Wed 9:00 – 10:30

**Workshop 1: Exploring the Political, Social and Cultural Challenges and Possibilities Associated with Trading Data: The Case of Data Market Austria (DMA)**

**Room: Commissiekamer 4**

- Chairs/organizers: Gabriela Viale Pereira, Shefali Virkar, Michela Vignoli

**Paper session 1: Data Sharing and Analytics to Address Societal Challenges**

**Room: Commissiekamer 3**

Chair: Efthimios Tambouris

- Regulatory Supervision with Computational Audit in International Supply Chains (Yuxin Wang, Joris Hulstijn, Yao-Hua Tan)
- Data on the Web Management System: A Reference Model (Lairson Emanuel Rodrigues de Alencar Oliveira, Marcelo Iury de Sousa Oliveira, Wilker Cavalcante Do Rego Santos, Bernadette Farias Lóscio)

Wed 11:00 – 12:30

**PhD colloquium**

**Room: Commissiekamer 2**

Chairs: Ramon Gill-Garcia, Ida Lindgren, Sharon Dawes

- 11:00-11:45 Paper 4: Muller presents Charles
- 11:45-12:30 Paper 5: Charles presents Lemmer

**Workshop 2: Using Problem-based Learning and Learning Analytics in Open Data Education**

**Room: Commissiekamer 4**

Chairs/organizers: Efthimios Tambouris, Paul Hermans, David Tarrant, Maria Zotou, Konstantinos Tarabanis

**Workshop 4 : How to improve policy making using open data in Virtual Research Environments? An interactive workshop discussing privacy, security and trust strategies**

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**Room: Commissiekamer 1**

Chairs/organizers: Yi Yin, Anneke Zuiderwijk, Jacco van Ossenbruggen, Keith Jeffery, Ahmad Luthfi and Marijn Janssen

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**Paper session 2: Public Governance and Policy in the Sharing Era****Room: Commissiekamer 3**

Chair: Asbjørn Følstad

- Sharing economy services as human-machine networks: Implications for policy making (Asbjørn Følstad, Marita Skjuve, Ida Maria Haugstveit, Till C. Lech)
- Technology, Civic Engagement and Street Science: Hacking the Future of Participatory Street Design in the Era of Self-Driving Cars (William Riggs)

Wed 12:30 – 13:30

**Lunch**

**Room: Foyer**

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Wed 13:30 – 15:45

**PhD colloquium****Room: Commissiekamer 2**

Chairs: Ramon Gill-Garcia, Ida Lindgren, Sharon Dawes

- 13:30-14:15 Paper 6: Lemmer presents Gerontas
- 14:15-15:00 Paper 7: Gerontas presents Zanooco
- 15:00-15:45 Paper 8: Zanooco presents Purwanto

Wed 13:30 – 15:30

**Workshop 3: Theory and Practice of Linked Open Statistical Data****Room: Commissiekamer 4**

Chairs/organizers: Efthimios Tambouris, Evangelos Kalampokis, Marijn Janssen, Ricardo Matheus, Paul Hermans, Tarmo Kalvet

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**Workshop 5: Opportunities and Challenges in the Intelligent Society: Smart Cities, Digital Inclusion, and Cybersecurity****Room: Commissiekamer 1**

Chairs/organizers: Dong Wook Kim, Hun Yeong Kwon, Daesung Jun, Eunmi Lee, Loni Hagen, Soon Ae Chun

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**Paper session 3: Open and Big Data Analytics in Government: Pathways from Insights to Public Value****Room: Commissiekamer 3**

Chair: Akemi Takeoka Chatfield

- Big data analytics in social care provision: spatial and temporal evidence from Birmingham (Sarunkorn Chotvijit, Malkiat Thiarai, Stephen Jarvis)
- Exploring Data Science for public good: evaluating factors that lead to success (Vukosi Marivate, Nyalleng Moorosi)
- Enhancing Situation Awareness of Public Safety Events by Visualizing Topic Evolution Using Social Media (Qing Deng, Guoray Cai, Hui Zhang, Yi Liu, Lida Huang, Feng Sun)
- Big Data on Cloud for Government Agencies: Benefits, Challenges, and Solutions (Alaa Hussain Rashed, Ziya Karakaya, Ali Yazici)

Wed 15:30 – 16:00

**Coffee break**

**Room: Foyer**

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Wed 16:00 – 17:00

**Panel 1: What makes a good journal article**

**Room: Frans van Hasseltzaal**

Chair/organizer: Albert Meijer

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**Paper session 4: Open and Big Data Analytics in Government: Pathways from Insights to Public Value**

**Room: Commissiekamer 3**

Chair: Yao Hua Tan

- On Using the Core Public Sector Vocabulary (CPSV) to Publish a “Citizens Guide” as Linked Data (Alexandros Gerontas, Efthimios Tambouris, Konstantinos Tarabanis)
- Census Big Data Analytics Use: International Cross Case Analysis (Akemi Takeoka Chatfield, Adegboyega Ojo, Gabriel Puron-Cid, Christopher Reddick)

Wed 17:00 – 20.15

**Welcome reception**

**Location: De Porceleyne Fles (see [https://www.royaldelft.com/en\\_gb/](https://www.royaldelft.com/en_gb/)). Visiting address: Rotterdamseweg 196, 2628 AR Delft**

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- 17.00-17.15 Walk to Porceleyne Fles (10 minutes) – Gather just in front of the Aula (downstairs at the entrance)
- 17.15-20.15 Welcome reception, sponsored by 4TU.Centre for Research Data

Wed 20:00 – 22.30

**PhD Colloquium Dinner (only for PhD colloquium participants)**

**Location: Het Sijgje, Delft**

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# Program - Thursday May 31

8.00	Registration <i>Aula TU Delft - Address: Mekelweg 5, 2628 CC Delft</i>				
9.00	DG.O Opening Ceremony Opening by Hans Wamelink, Dean of the Faculty of Technology, Policy and Management Karel Luyben, Dutch National Open Science Coordinator and former rector magnificus of TU Delft: "Open science and open government" Plenary Keynote Speech by Gisele Roesems-Kerremans, European Commission: "Open and collaborative digital government – Experience through H2020" Opening of Research Sessions <i>Senaatszaal</i>				
10.30	Coffee break <i>Foyer</i>				
11.00	<b>Paper session 5: Social media and government</b> <i>Frans van Hasseltzaal</i>	<b>Paper session 6: Organizational Factors, Adoption Issues and Digital Government Impacts</b> <i>Commissiekamer 2</i>	<b>Paper session 7: Maturity and Sustainability of Open Governmental Data</b> <i>Commissiekamer 3</i>	<b>Paper session 8: Public value creation and innovation in government</b> <i>Commissiekamer 4</i>	<b>Panel 2: Citizen-Oriented Digital Transformation in the Public Sector</b> <i>Senaatszaal</i>
12.30	Lunch <i>Foyer</i>				
13.30	<b>Paper session 9: Smart cities</b> <i>Frans van Hasseltzaal</i>	<b>Paper session 10: Organizational Factors, Adoption Issues and Digital Government Impacts</b> <i>Commissiekamer 2</i>	<b>Paper session 11: Proactive Transparency and Knowledge Discovery from Open Government Data</b> <i>Commissiekamer 3</i>	<b>Paper session 12</b> <i>Commissiekamer 4</i> <b>Part 1: Open and Big Data Analytics in Government: Pathways from Insights to Public Value</b> <b>Part 2: Public value creation and innovation in government</b>	<b>Panel 3: Toward an Ethics of Digital Government: A First Discussion</b> <i>Senaatszaal</i>
15.30	Coffee break <i>Foyer</i>				
16.00	<b>Paper session 13: Smart cities</b> <i>Frans van Hasseltzaal</i>	<b>Paper session 14: Organizational Factors, Adoption Issues and Digital Government Impacts</b> <i>Commissiekamer 2</i>	<b>Paper session 15: Engagement in Government: For Better or For Worse?</b> <i>Commissiekamer 3</i>	<b>Paper session 16: Beyond Bureaucracy, Co-Producing Governance &amp; New Models of Governance</b> <i>Commissiekamer 4</i>	<b>Panel 4: Challenges to Government Use of Social Media</b> <i>Senaatszaal</i>
18.00-19.00	DGS General Membership Meeting <i>Frans van Hasseltzaal</i>				
19.00-21.00	Poster session with food <i>Foyer</i>				

Thursday May 31

Thu 8:00 - 9:00  
Registration

*Registration desk, ground floor, Aula TU Delft*  
Address: Mekelweg 5, 2628 CC Delft

Thu 9:00 – 10:30

### **Dg.o Opening Ceremony**

**Room: Senaatszaal**

- Opening by Hans Wamelink, Dean of the Faculty of Technology, Policy and Management
- Karel Luyben, Dutch National Open Science Coordinator and former rector magnificus of TU Delft: “Open science and open government”
- Plenary Keynote Speech by Gisele Roesems-Kerremans, European Commission: “Open and collaborative digital government – Experience through H2020”
- Opening of Research Sessions

Thu 10:30 – 11:00

### **Coffee break**

**Room: Foyer**

Thu 11:00 – 12:30

### **Paper session 5: Social media and government**

**Room: Frans van Hasseltzaal**

Chair: Rodrigo Sandoval

- A Framework for Using Data Analytics To Measure Trust in Government through the Social Capital Generated over Governmental Social Media Platforms (Nahed Azab, Mohamed Elsherif)
- Government Social Media Communications during Zika Health Crisis (Loni Hagen, Ryan Scharf, Stephen Neely, Thomas Keller)
- Examining Conversations between Police Agencies and the Public on Facebook (Qunfang Wu, Saurabh Gupta, Yun Huang)

### **Paper session 6: Organizational Factors, Adoption Issues and Digital Government Impacts**

**Room: Commissiekamer 2**

Chair: Jing Zhang

- Interoperability Governance: A Definition and Insights from Case Studies in Europe (Maria Wimmer, Rositsa Boneva, Débora di Giacomo)
- Continuous Auditing and Monitoring in Municipalities (Naoual Ezzamouri and Joris Hulstijn)
- Steering the adoption of Standard Business Reporting for cross domain information exchange (Nitesh Bharosa, Ralf van Oosterhout, Lars Mosterd, Frans Hietbrink)

## **Paper session 7: Maturity and Sustainability of Open Governmental Data**

**Room: Commissiekamer 3**

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Chair: Tobias Siebenlist

- US Open Data Policy: Advances and Recommendations (Luis F. Luna-Reyes)
- Maturity and Usability of Open Data in North Rhine-Westphalia (Haydar Akyürek, Cora Scholl, Regina Stodden, Agnes Mainka, Tobias Siebenlist)
- An Instrument for Evaluating Open Data Portals: a Case Study in Brazilian Cities (Viviann Machado, Gabriel Mantini, Jose Viterbo, Flavia Bernardini, Raissa Barcellos)

## **Paper session 8: Public value creation and innovation in government**

**Room: Commissiekamer 4**

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Chair: Panos Panagiotopoulos

- The Impact of ICTs-related Innovation on Public Values in Public Sector: A Meta-Analysis (Naci Karkin, Nilay Yavuz, Ecem Buse Sevinc Cubuk, Ece Golukcetin)
- Public Value Innovation: A Theoretical Framework Based on System Dynamics (Leonardo Ferreira de Oliveira, Carlos Denner Dos Santos Júnior)
- Co-producing public value through IoT and social media (Ulf Hedestig, Daniel Skog, Mikael Söderström)

## **Panel 2: Citizen-Oriented Digital Transformation in the Public Sector**

**Room: Senaatszaal**

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Chairs/organizers: Ines Mergel, Rainer Kattel, Veiko Lember, Keegan McBride

Thu 12:30 – 13:30

## **Lunch**

**Room: Foyer**

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Thu 13:30 – 15:30

## **Paper session 9: Smart cities**

**Room: Frans van Hasseltzaal**

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Chair: Soon Ae Chun

- Smart City Initiatives: Designing a Project-Level Smart Value Assessment Instrument (Joachim Van den Bergh, Paula Dootson, Marek Kowalkiewicz, Stijn Viaene)
- The Quest for the Quality of Life in European Smart Cities. An empirical research (Manuel Pedro Rodríguez Bolívar, José Miguel López-Quiles)
- How Cities Categorize Datasets in their Open Data Portals: an Exploratory Analysis (Higor Dos Santos Pinto, Flavia Bernardini, Jose Viterbo)
- HandYwiN: A Crowdsourcing-Mapping Solution Towards Accessible Cities (Arbi Chouikh)



## **Paper session 10: Organizational Factors, Adoption Issues and Digital Government Impacts**

**Room: Commissiekamer 2**

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Chair: Yu-Che Chen

- Impact of Citizens' Privacy Concerns on e-Government Adoption (Dapeng Liu, Lemuria Carter)
- A Tough Decision Made Easy? Local Government Decision-Making about Contracting for Cybersecurity (Brian Nussbaum, Sora Park)
- Enablers for interoperability in decentralized e-Government settings (Leif Sundberg)
- Analyzing e-Governance Assessment Initiatives: An Exploratory Study (Ayman Alarabiat, Delfina Soares, Luis Ferreira, Filipe de Sá-Soares)

## **Paper session 11: Proactive Transparency and Knowledge Discovery from Open Government Data**

**Room: Commissiekamer 3**

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Chair: José Viterbo

- Improvement of Transparency through Mining Techniques for Reclassification of Texts: The case of Brazilian Transparency Portal (Gustavo Almeida, Kate Revoredo, Claudia Cappelli, Cristiano Maciel)
- Text Mining as a transparency enabler to support decision making in a People Management Process (José Soares Barroso Júnior, Claudia Cappelli Aló, Kate Cerqueira Revoredo, Vanessa Tavares Nunes)
- Show me the Data! A Systematic Mapping on Open Government Data Visualization (André Eberhardt, Milene Silveira)
- Access to Information on websites of Brazilian Superior Courts of Justice: comparative analysis between data from 2013 and 2017 (Lahis Pasquali Kurtz, Paloma Maria Santos, Aires José Rover)

## **Paper session 12**

**Part 1: Open and Big Data Analytics in Government: Pathways from Insights to Public Value**

**Part 2: Public value creation and innovation in government**

**Room: Commissiekamer 4**

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Chair: Antonio Cordella

### **Part 1:**

- Predicting the Vote Using Legislative Speech (Aditya Budhwar, Foad Khosmood, Toshihiro Kuboi, Alex Dekhtyar)
- Ready for Data Analytics? A Socio-Technical Perspective to Data Acquisition in Local Governments (Minyoung Ku, J. Ramon Gil-Garcia)

### **Part 2:**

- How to plan an organizational strategy to manage ICTs mediated co-production: a public value perspective (Andrea Paletti)
- Digital Government Enabled Transformation - Public e-Service Development and Changes in Public Value (Ida Lindgren, Anne Fleur van Veenstra)

## **Panel 3: Toward an Ethics of Digital Government: A First Discussion**

**Room: Senaatszaal**

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Participants/organizers: Rob Domanski, Elsa Estevez, Evgeny Styryn, Teresa Harrison, Mark Alfano

**Thu 15:30 – 16:00**

## **Coffee break**

**Room: Foyer**

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**Paper session 13: Smart cities**

**Room: Frans van Hasseltzaal**

Chair: Dongwook Kim

- Working Across Boundaries in Smart City Research – Reflections from Early Career Researchers (Henrik Korsgaard, Sarah-Kristin Thiel, Titiana Ertiö, Vanessa Thomas)
- A Multiple-Criteria Algorithm for Smart Parking: Making fair and preferred parking reservations in Smart Cities (Zeenat Rehena, Md Ashifuddin Mondal, Marijn Janssen)
- Emergency Response Plan Recommendation and Composition System (ERPRCS) (Ayesha Afzal, Basit Shafiq, Shafay Shamail, Abeer Elahraf, Jaideep Vaidya, Nabil Adam)
- Perspectives on Smart Cities Strategies: Sketching a Framework and Testing First Uses (Stephan Haller, Alessia C. Neuroni, Marianne Fraefel, Ken Sakamura)

**Paper session 14: Organizational Factors, Adoption Issues and Digital Government Impacts**

**Room: Commissiekamer 2**

Chair: Lei Zheng

- Government Employees' Adoption of Information Technology – A Literature Review (Mariem Ben Rehouma, Sara Hofmann)
- Framework for Designing M-Government Services in Developing Countries (Tupokigwe Isagah, Maria A. Wimmer)
- Contributing to a Digital Single Market for Europe: Barriers and Drivers of an EU-wide Once-Only Principle (Tarmo Kalvet, Maarja Toots, Robert Krimmer)
- Reconsidering the Importance of Context for the Success of Digital Government: The Case of Legal Vulnerability and Extreme Poverty in the Provision of Migration Services at the Southern Mexican Border (Luz Maria Garcia-Garcia, J. Ramon Gil-Garcia)

**Paper session 15: Engagement in Government: For Better or For Worse?**

**Room: Commissiekamer 3**

Chair: Yogesh Dwivedi

- Participatory Budgeting: The Case for Engaging Citizens in Local Government Decision Making (Amizan Omar, Uthayasankar Sivarajah, Vishanth Weerakkody)
- Understanding 'Development' From the Perspective of EGovernment, Digital Divide and ICT4D Literature: A Research Agenda (Banita Lal, Nripendra Rana, Yogesh Dwivedi, Diana Frost, Simbarashe Chirara)
- Promoting social participation through Digital Governance: identifying barriers in the Brazilian Public Administration (Edimara Luciano, Guilherme Wiedenhöft, Fabio Santos)
- Protection and Preservation of REGION Cultural Heritage engaging local communities via the use of Open Data (Maria Anna Ambrosino, Jerry Andriessen, Vanja Annunziata, Massimo De Santo, Carmela Luciano, Mirjam Pardijs, Donato Pirozzi, Gianluca Santangelo)

## **Paper session 16: Beyond Bureaucracy, Co-Producing Governance & New Models of Governance**

**Room: Commissiekamer 4**

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Chair: Alois Paulin

- The Role of Government in Crowdfunding for Achieving Co-funding of Public Projects (Souman Hong, Jungmin Ryu)
- Towards a Networked Modern Democracy - Thoughts on How ICT Could Enable New Forms for the Relationship Between Citizens and their Representatives (Dirk Fischer, Robert Krimmer)
- Direct Deliberative Democracy: combining normative rightness with epistemic soundness (Cyril Velikanov)
- Public Governance through Fourth-Generation Technology: How Informatization differs from Digitalization (Alois Paulin)

## **Panel 4: Challenges to Government Use of Social Media**

**Room: Senaatszaal**

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Chairs/organizers: Enzo Falco, Reinout Kleinhans and Gabriela Viale Pereira

Thu 18:00 – 19:00

## **DGS General Membership Meeting**

**Room: Frans van Hasseltzaal**

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Thu 19:00 – 21:00

## **Poster session with food**

**Room: Foyer**

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Poster and Demonstration Chairs: **Kellyton dos Santos Brito, Ali Pirannejad, Bram Klievink**

### **[P1] 3D Visualization of Legislative Relationships**

Alexander Ehm, Gudrun Socher, Foaad Khosmood

### **[P2] A comprehensive architecture to support Open Data access, co-creation, and Dissemination**

Adegboyega Ojo, Arkadiusz Stasiewicz, Lukasz Porwol, Andrea Petta, Donato Pirozzi, Luigi Serra, Vittorio Scarano, Luca Vicidomini

### **[P3] A Tale of Two Information Systems: Transitioning to a DataCentric Information System for Child Welfare**

Teresa Harrison, Donna S. Canestraro, Theresa Pardo, Martha Alicia Avila-Maravilla, Nicolas Soto, Megan Sutherland, Brian Burke, Mila Gascó-Hernández

### **[P4] Analyzing the Use of Economic and Financial Indicators in Smart Cities Context**

Mauricio Barcelos, André Barcelos, Flavia Bernardini, Guido Silva

### **[P5] Breaking Through Government Digital Communities in Social Media. A Comparative Analysis at the Local Level in Spain**

J. Ignacio Criado, Julián Villodre

### **[P6] Citizenpedia: simplifying Citizens interaction with Public Administration**

Vincenzo Cartelli, Giuseppe Di Modica, Orazio Tomarchio, Diego López-De-Ipiña, Koldo Zabaleta, Enrique Sanz

**[P7] Complexity of the regions and municipalities smart urbanization policy with the aim of promoting regional development**

Vasja Roblek, Leonidas Anthopoulos

**[P8] Co-producing software for complex environmental data visualization**

Chad Zanocco, Denise Lach, Judy Cushing

**[P9] Defining the engagement life cycle in e-participation**

María E. Cortés-Cediel, Olga Gil, Iván Cantador

**[P10] Digital Innovation and Regulatory Policy: Why does development of digital technology not lead to innovation?**

Wookjoon Sung

**[P11] Gaining Efficiency in Human Assisted Transcription and Speech Annotation in Legislative Proceedings**

Thorsten Ruprechter, Foaad Khosmood, Toshihiro Kuboi, Alexander Dekhtyar, Christian Gütl

**[P12] Gaming to improve public policies by engaging local governments in open data policy-making**

Fernando Kleiman, Marijn Janssen

**[P13] Identifying the True Drivers of Costs And Benefits of Blockchain Implementation for Public Services**

David Allessie, Maciej Sobolewski, Lorenzino Vaccari

**[P14] Investigating Blockchain as a Data Management Tool for IoT Devices in Smart City Initiatives**

Lingjun Fan, J. Ramon Gil-Garcia, Werthmuller Derek, Burke G Brian, Xuehai Hong

**[P15] Is Digital Literacy the Key to Overcome Inequality in E-participation?**

Eun-Hyung Park

**[P16] Learning Alignments from Legislative Discourse**

Daniel Kauffman, Foaad Khosmood, Toshi Kuboi, Alexander Dekhtyar

**[P17] Municipal Open Government an Exploratory Research: Factor Analysis for Mexican Municipalities**

Rodrigo Sandoval-Almazan, Edgar Alejandro Ruvalcaba Gomez

**[P18] Open Government Data Programs: the political system matters? Revisiting the Dawes' ecosystem model**

Erico Przybilovicz, Maria Alexandra Cunha

**[P19] Scientific foundations training and entrepreneurship activities in the domain of ICT-enabled Governance**

Gabriela Viale Periera, Yannis Charalabidis, Charalampos Alexopoulos, Francesco Mureddu, Peter Parycek, Alexander Ronzhyn, Dimitris Sarantis, Leif Flak, Maria A. Wimmer

**[P20] Sensemaking of Complex Sociotechnical Systems - the case of governance dashboards**

Heike Vornhagen, Brian Davis, Manel Zarrouk

**[P21] The Application of WeChat Official Accounts for Provincial Archives in China**

Xiaoyi Liu

**[P22] The Role of Public Libraries in Smart, Inclusive, and Connected Communities: Current and Best Practices**

Shannon Mersand, Mila Gascó-Hernández, J. Ramon Gil-Garcia, G. Brian Burke, Miguel Figueroa, Megan Sutherland

**[P23] The uses of the Blockchain Smart Contracts to reduce the levels of corruption: some preliminary thoughts**

Rodrigo Couto de Souza, Edimara M. Luciano, Guilherme C. Wiedenhöft

**[P24] Through vr-Participation to more trusted Digital Participatory Democracy**

Lukasz Porwol, Adegboyega Ojo

**[P25] Towards an Understanding of Artificial Intelligence in Government**

David Valle-Cruz, Rodrigo Sandoval-Almazan

**[P26] Towards increasing citizen engagement in participatory budgeting digital tools**

Iván Cantador, María E. Cortés-Cediel

**[P27] Towards the open government ecosystem: open government based on artificial intelligence for the development of public policies**

Larissa Galdino de Magalhães Santos

**[P28] Use of Social Media by the German police: The case of Munich**

Cigdem Akkaya, Jane Fedorowicz, Helmut Krcmar

**[P29] Web-based Application for the Sentiment Analysis of Live Tweets**

Nitesh Sharma, Rachit Pabreja, Ussama Yaqub, Vijay Atluri, Soon Ae Chun, Jaideep Vaidya

**[P30] Using Tools for Citizen Engagement on Large and Medium-Sized European Smart Cities**

Laura Alcaide Muñoz, Manuel Pedro Rodríguez Bolívar

# Program – Friday June 1

8.00	Registration <i>Aula TU Delft - Address: Mekelweg 5, 2628 CC Delft</i>				
9.00	<b>Plenary Keynote Speech by Steven Luitjes</b> – Ministry of the Interior and Kingdom Relations <b>Plenary Panel discussion (panel 5): ID First</b> – removing the barriers for personal data management <i>Senaatszaal</i>				
10.30	Coffee break <i>Foyer</i>				
11.00	<b>Paper session 17: Social media and government</b> <i>Frans van Hasseltzaal</i>	<b>Paper session 18: Organizational Factors, Adoption Issues and Digital Government Impacts</b> <i>Commissiekamer 2</i>	<b>Paper session 19: Engagement in Government: For Better or For Worse?</b> <i>Commissiekamer 3</i>	<b>Paper session 20: Participatory democracy</b> <i>Commissiekamer 4</i>	<b>Panel 6: Blockchain Applications in Government</b> <i>Senaatszaal</i>
12.30	Lunch <i>Room: Foyer</i>				
13.30	<b>Paper session 21: Social media and government</b> <i>Frans van Hasseltzaal</i>	<b>Paper session 22</b> <i>Commissiekamer 2</i> <b>Part 1: Artificial intelligence in the public sector</b> <b>Part 2: Open government: data infrastructures, strategies, and governance</b>	<b>Paper session 23: Open government: data infrastructures, strategies, and governance</b> <i>Commissiekamer 3</i>	<b>Paper session 24: Blockchain</b> <i>Commissiekamer 4</i>	<b>Panel 7: The use of MOOCS in the Open Government Virtual Education</b> <i>Senaatszaal</i>
15.00	Coffee break <i>Room: Foyer</i>				
15.30	<b>Paper session 25: Smart cities</b> <i>Frans van Hasseltzaal</i>	<b>Paper session 26: Maturity and Sustainability of Open Governmental Data</b> <i>Commissiekamer 2</i>	<b>Paper session 27</b> <i>Commissiekamer 3</i> <b>Part 1: Data for good – disaster response and resilience</b> <b>Part 2: Participatory democracy</b>	<b>Paper session 28</b> <i>Commissiekamer 4</i> <b>Part 1: Data Sharing and Analytics to Address Societal Challenges</b> <b>Part 2: Blockchain</b>	
17.00	End of sessions				
17.30	Leaving 17.40 sharp! Boat tour through Delft, sponsored by 4TU.Centre for Research Data (get on board at: Abtswoudsebrug, Schieweg, 2627 AH, Delft – there will be signs)				
18.20	Arrival in Delft city centre, walk to conference dinner location (5 minutes)				
18.30	Conference award Dinner <i>Stadsherberg De Mol - Address: Molslaan 104, 2611 RP Delft</i>				

Friday June 1

Fri 8:30 - 9:00

Registration

*Registration desk, ground floor, Aula TU Delft*

Address: Mekelweg 5, 2628 CC Delft

Fri 9:00 – 10:30

### **Dg.o Plenary**

**Room: Senaatszaal**

- Plenary Keynote Speech by Steven Luitjes – Ministry of the Interior and Kingdom Relations
- Plenary Panel discussion (**panel 5**): ID First – removing the barriers for personal data management (Chair: Nitesh Bharosa)

Fri 10:30 – 11:00

### **Coffee break**

**Room: Foyer**

Fri 11:00 – 12:30

### **Paper session 17: Social media and government**

**Room: Frans van Hasseltzaal**

Chair: Andrea Kavanaugh

- Examining Government-Citizen Interactions on Twitter using Visual and Sentiment Analysis (Rocío Hubert, Elsa Estevez, Ana Maguitman, Tomasz Janowski)
- Facebook Impact and Sentiment Analysis on Political Campaigns: The Case of State of Mexico (Rodrigo Sandoval-Almazan, David Valle-Cruz)
- Coalition and Opposition MPs on Facebook (Nili Steinfeld and Azi Lev-On)

### **Paper session 18: Organizational Factors, Adoption Issues and Digital Government Impacts**

**Room: Commissiekamer 2**

Chair: Bram Klievink

- Looking for a five-legged sheep: Identifying enterprise architects' skills and competencies (Maija Ylinen, Samuli Pekkola)
- Culture of openness: The beginning of open government in municipalities in Germany (Tobias Siebenlist, Agnes Mainka)
- Open Government Data in Brazil - A Systematic Review of its Uses and Issues (Emilio Feliciano de Oliveira, Milene Selbach Silveira)

## **Paper session 19: Engagement in Government: For Better or For Worse?**

**Room: Commissiekamer 3**

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Chair: Yogesh Dwivedi

- Digital Transformation Model: Analytic Approach on Participatory Governance & Community Engagement in India (Alka Mishra, Durgaprasad Misra, Sitansu Sekhar Mahapatra, Shubhadip Biswas)
- Citizen Engagement in an Open Election Data Initiative: A Case Study of Indonesia's "Kawal Pemilu" (Arie Purwanto, Anneke Zuiderwijk, Marijn Janssen)
- Spatial, temporal and semantic contextualization in citizens' participation in Smart Cities (Amal Marzouki, Sehl Mellouli, Sylvie Daniel)

## **Paper session 20: Participatory democracy**

**Room: Commissiekamer 4**

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Chair: José Viterbo Filho

- Trust in e-participation: an empirical research on the influencing factors (Alex Santamaría Philco, Maria Wimmer)
- Strengthening Community Data: Towards Pervasive Participation (John Carroll, Jordan Beck, Shipi Kankane, Jomara Binda, Srishti Gupta)
- Multimodal Speaker Identification in Legislative Discourse (Daniel Kauffman, Michael Williams, Calin Washington, Gudrun Socher, Foad Khosmood)

## **Panel 6: Blockchain Applications in Government**

**Room: Senaatszaal**

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Chairs/organizers: Lemuria Carter, Jolien Ubacht

Fri 12:30 – 13:30

## **Lunch**

**Room: Foyer**

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Fri 13:30 – 15:00

## **Paper session 21: Social media and government**

**Room: Frans van Hasseltzaal**

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Chair: Nitesh Bharosa

- Humor, Support and Criticism: a Analysis and Visualization of Subjectivity and Polarity of Twitter Location Data (Ussama Yaqub, Nitesh Sharma, Rachit Pabreja, Soon Ae Chun, Vijay Atluri, Jaideep Vaidya)
- Taxonomy for Discourse Analysis about Political Crisis on Twitter (Carlos Roberto G. Teixeira, Gabriela Kurtz, Daniele R. de Souza, Joao Marcelo F. Lerina, Lorenzo P. Leuck, Isabel H. Manssour, Milene S. Silveira, Roberto Tietzmann)
- The PredNews forecasting model: Predicting election results based on online newspapers comments (Ana Cristina Bicharra Garcia, William Silva and Luis Correia)



## **Paper session 22**

### **Part 1: Artificial intelligence in the public sector**

### **Part 2: Open government: data infrastructures, strategies, and governance**

**Room: Commissiekamer 2**

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#### **Part 1:**

Chair: Sehl Mellouli

- E-Health: Using Agent Based Models to Simulate Behavior and Activities of Individuals during an Epidemic Outbreak (Marco Antonio Ramos-Corchado, Juan Sánchez, Vianney Muñoz, J. Raymundo Marcial-Romero, David Valle-Cruz, A López-López, Felix Ramos-Corchado)

#### **Part 2:**

Chair: Iryna Sussha

- Discussing Open Government as a Concept: A Comparison between the Perceptions of Public Managers and Current Academic Discourse (Edgar Alejandro Ruvalcaba-Gomez, J. Ignacio Criado Grande, Ramon Gil-Garcia)
- Towards a Meta-model for Data Ecosystems (Marcelo Iury de Sousa Oliveira, Lairson Emanuel R. A. Oliveira, Marlos G. Ribeiro Batista, Bernadette Farias Lóscio)

## **Paper session 23: Open government: data infrastructures, strategies, and governance**

**Room: Commissiekamer 3**

---

Chair: Fatemeh Ahmadi Zeleti

- A Rationale for Data Governance as an Approach to Tackle Recurrent Drawbacks in Open Data Portals (Juan Ribeiro Reis, Jose Viterbo, Flavia Bernardini)
- What is a Data Ecosystem? (Marcelo Iury de Sousa Oliveira, Bernadette Farias Lóscio)
- A Dual Valuation of Open Government (Morgan Currie)

## **Paper session 24: Blockchain**

**Room: Commissiekamer 4**

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Chair: Jolien Ubacht

- Challenges of Blockchain Technology Adoption for e-Government: A Systematic Literature Review (F. Rizal Batubara, Jolien Ubacht, Marijn Janssen)
- The Potential for Using Blockchain Technology in the Public Sector – an Analytical Framework (Svein Ølnes, Arild Jansen)
- Cryptocurrency Adoption: The Perspective of the Individual (Ludwig Schaupp, Mackenzie Festa)

## **Panel 7: The use of MOOCS in the Open Government Virtual Education**

**Room: Senaatszaal**

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Chairs/organizers: Rodrigo Sandoval-Almazan, David Valle-Cruz, J. Ignacio Criado

Fri 15:00 – 15:30

## **Coffee break**

**Room: Foyer**

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### **Paper session 25: Smart cities**

**Room: Frans van Hasseltzaal**

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Chair: Leonidas Anthopoulos

- Long Tail Phenomenon in Public Policy: Analyzing Big Data on Citizen Opinion in Smart City (Eunmi Lee, Daesung Jun, Hyewon Lim, Dongwook Kim, Hyoungjoo Kim)
- How Big Data Contributes to the Building of Citizen-Centric Smart Cities: The case of Namyangju City in Korea (Daesung Jun, Eunmi Lee, Hyewon Lim, Dongwook Kim, Loni Hagen)
- Smart Cities in the Era of Artificial Intelligence and Internet of Things (Amal Ben Rjab, Sehl Mellouli)

### **Paper session 26: Maturity and Sustainability of Open Governmental Data**

**Room: Commissiekamer 2**

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Chair: Agnes Mainka

- Investigating open data portals automatically: a methodology and some illustrations (Andreiwid Correa, Pär-Ola Zander, Flavio Silva)
- Role of Law as a Guardian of the Right to Use Public Sector Information : Case Study of Korean Government (Sang-Pil Yoon, Moon-Ho Joo and Hun-Yeong Kwon)
- Agile Production of High Quality Open Data (Renato De Donato, Giuseppe Ferretti, Antonio Marciano, Giuseppina Palmieri, Donato Pirozzi, Vittorio Scarano and Luca Vicidomini)

### **Paper session 27**

**Part 1: Data for good – disaster response and resilience**

**Part 2: Participatory democracy**

**Room: Commissiekamer 3**

---

**Part 1:**

Chair: Tina Comes

- A Framework for Strengthening Data Ecosystems to Serve Humanitarian Purposes (Elise Haak, Jolien Ubacht, Mark Van den Homberg, Scott Cunningham, Bartel Van de Walle)
- Towards generalized process patterns for detecting corruption within the government using open data (Darusalam Darusalam, Marijn Janssen, Jolien Ubacht)

**Part 2:**

Chair: José Viterbo

- E-participation, Social Media and Digital Gap: Challenges in the Brazilian Context (Manuella Maia Ribeiro, Maria Alexandra Cunha and Alexandre Fernandes Barbosa)

### **Paper session 28**

**Part 1: Data Sharing and Analytics to Address Societal Challenges**

**Part 2: Blockchain**

**Room: Commissiekamer 4**

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**Part 1:**

Chair: Alexandros Gerontas

- Comparing the Openness of Archetypical Business-to-Government Information Sharing Architectures Balancing Advantages of Openness with the Control of Risks (*Sélinde van Engelenburg, Marijn Janssen, Bram Klievink, Yao Hua Tan, Boriana Rukanova*)

**Part 2:**

Chair: Svein Ølnes

- When Willeke can get rid of paperwork: a lean infrastructure for qualified information exchange based on trusted identities (Sander Dijkhuis, Remco van Wijk, Hidde Dorhout, Nitesh Bharosa)
- Governing blockchains from an institutional perspective, a matter of trust or control? (David Meijer, Jolien Ubacht)

Fri 17:30 – 22:30

**17.30 - Boat tour through Delft, sponsored by 4TU.Centre for Research Data**

**Location: get on board at: Abtswoudsebrug, Schieweg, 2627 AH, Delft**

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Leaving 17.40 sharp!

**18.20 – End of boat tour**

***Arrival in Delft city centre***

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Walk to conference dinner location (5 minutes)

**18.30-22.30 Conference award Dinner**

***Location: Stadsherberg De Mol, Delft city center***

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\*All meat provided during the conference dinner is Halal meat

- Visiting address: Molslaan 104, 2611 RP Delft
- Conference Closing

# Sat June 2: 9:00 – 18:00

## Tour (Optional)

**Deltaworks and Port of Rotterdam** (see the dg.o website)

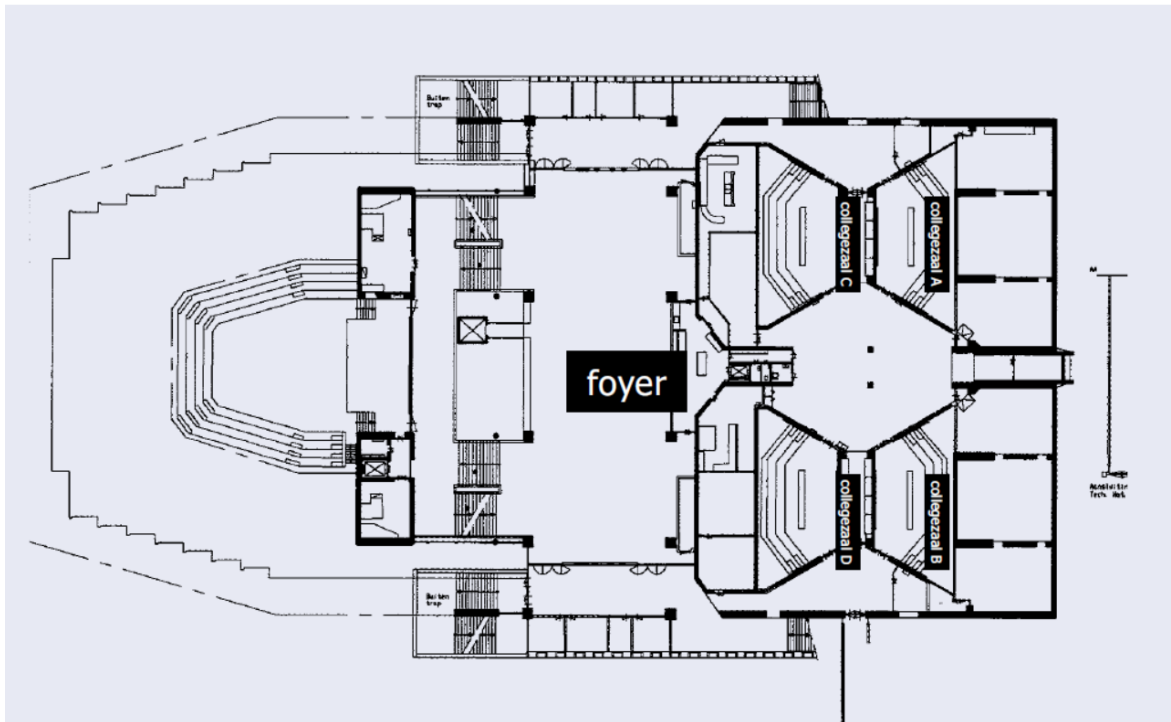
## Internet connection

Internet (WIFI) will be available in the congress centre.

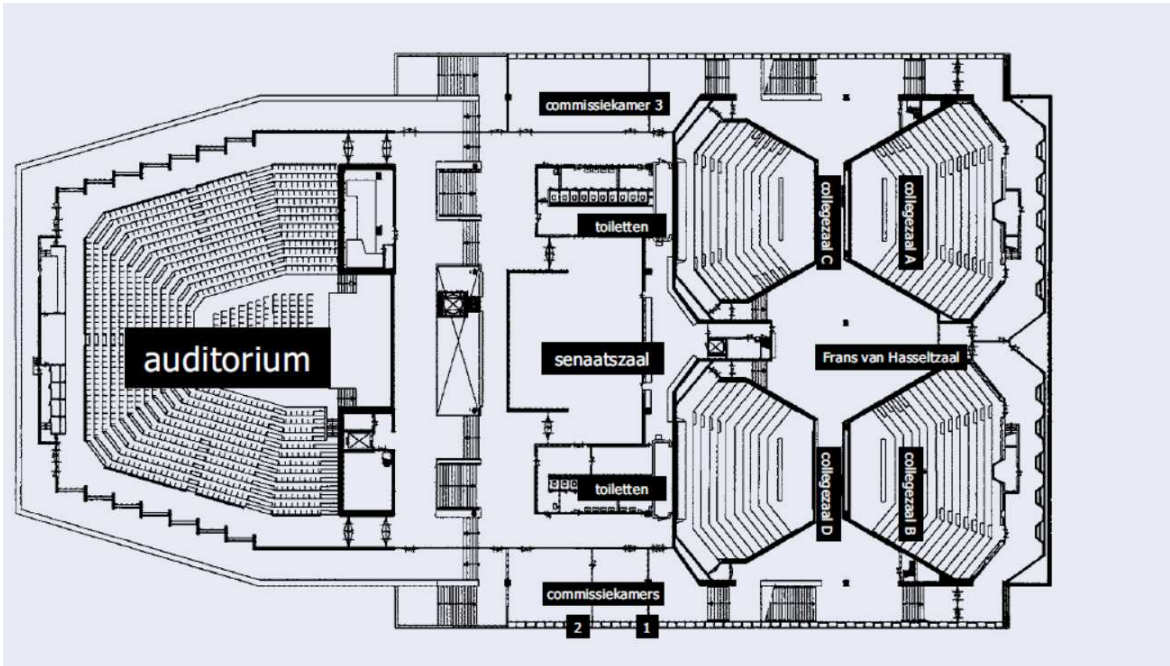
Network: **DGO Delft 2018**  
The web key is: **tudelft2018**

## Overview Aula

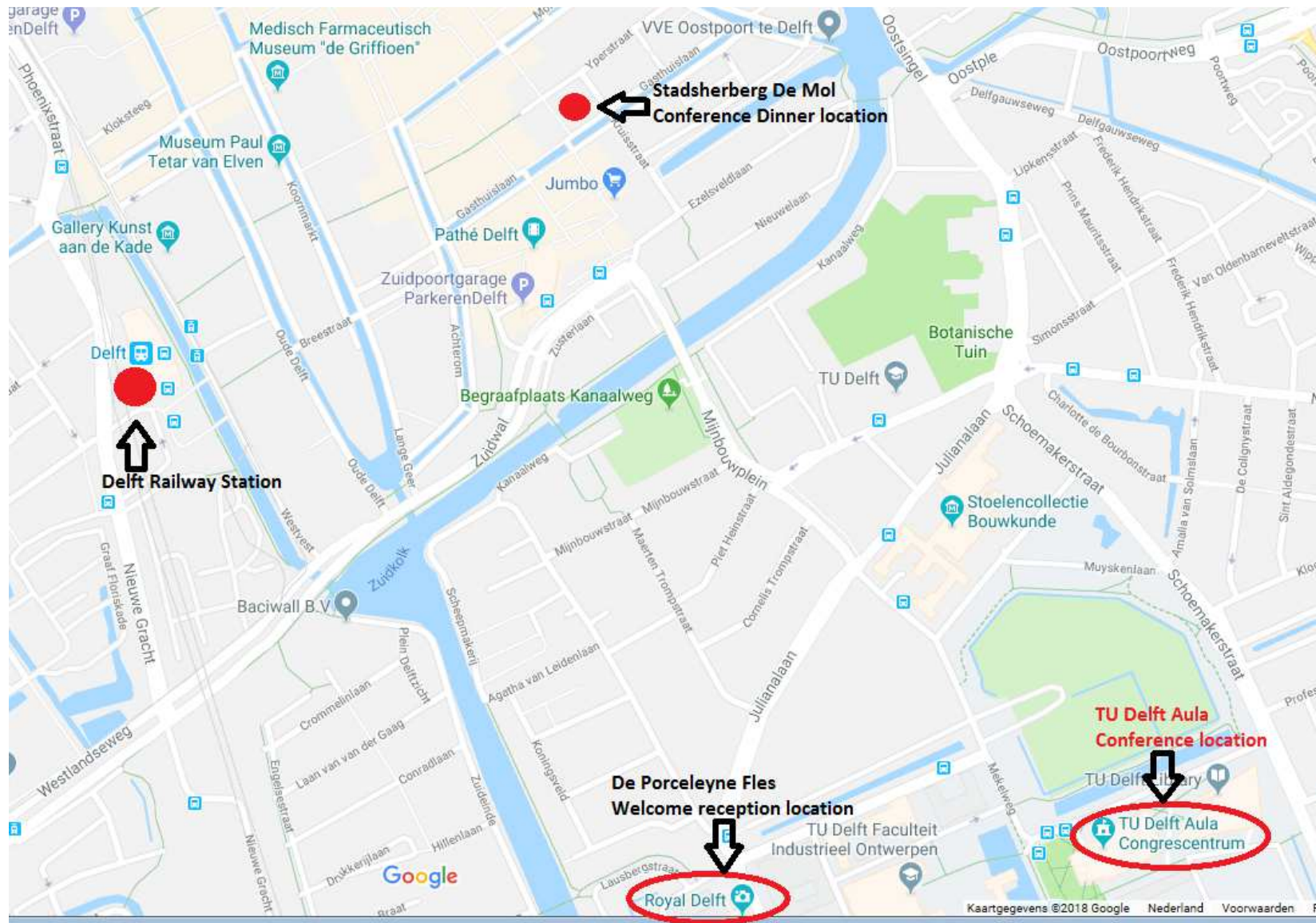
### 1st floor



2nd floor



# Map of Delft



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Nan Zhang, Tsinghua University, China  
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Wei Zhong, Renmin University of China, China  
Anneke Zuiderwijk, Delft University of Technology, Netherlands

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## **20<sup>th</sup> Annual Conference of the Digital Government Research**

### **Momahed Bin Rashid School of Government (MBRSG) in Dubai**

The dg.o 2019 edition will take place at Momahed Bin Rashid School of Government (MBRSG) in Dubai. As stated in its website, "The School aims to support good governance in the UAE and the Arab world, and build future leaders through an integrated system offering education and training programs, as well as research and studies", It will be the first time that dg.o takes place in the Middle East. This will strengthen the position of the Society as a World leader in the field of digital government. You are all welcome to submit papers to the 2019 edition and hope to see you all in Dubai in 2019.

# Thank you for your Participation in DG.O 2018!

