

TECHNICAL PROGRAMME of IEEE E-TEMS 2023 (HYBRID)

Digital Transformation for Smart Cities and Beyond: Projects are shaping Society

20 - 22 April 2023
Kaunas University of Technology, Lithuania

The conference is scheduled in accordance with
Eastern European Summer Time (EEST / UTC+3)

Address of the conference Venue: [Studentų st. 48 Kaunas 51367, Lithuania](#)



In4act



The **IEEE European Technology and Engineering Management Summit (IEEE E-TEMS 2023)** is addressing the challenge of achieving quality of life in **smart cities** through the projects and digital ecosystems. We must find ways to share our ideas, questions and proposals on **digital transformation** of the areas where technologies, **sustainable** smart cities and **resilient** society meet.

At **IEEE E-TEMS 2023** – hosted by the Kaunas University of Technology – participants will share their understanding of quality of life within cities, showcase their digital transformation projects and explore related themes.

The programme will be a balance between declared topics and those emergent from other submissions. For those interested in **regional perspectives**, it is important to note that we are actively seeking contributions from organizations in and around Dortmund, Bilbao, Trondheim, Kaunas, Leuven, Kyiv and other Smart Cities.

IEEE E-TEMS 2021-2025 is a conference series designed to look at critical and emergent issues through the lens of project, technology and engineering management. Over the course of the series, the European Partnership on Project & Innovation Management (EuroPIM) will bring research, practitioner and industry perspectives to emphasize the social accountability that must be associated with project management, digital transformation and smart cities. Each event will aim at delivering a hybrid conference model (with both virtual and in-person) and include international experts, educational workshops, doctoral symposia, poster sessions and dialogues amongst our EuroPIM partners. **IEEE E-TEMS 2023** is the third of the series and we sincerely welcome you to consider the details of this programme, how these insights can affect your research and project activities and how, most especially, you can see yourself contributing to future events.

We look forward to seeing you during the series!

Chairs & Organising Committee:

- Beverly Pasian
- Elena Vitkauskaitė
- Carsten Wolff
- Anna Badasian
- Gaiva Vilkevičienė
- Jurga Duobienė
- Rimantė Hopenienė

Organising Team:

- Anastasiya Kurylchik
- Areej Aldaghamin
- Evelina Mackevičiūtė
- Gabija Lapinskaitė
- Gustavo Giannattasio
- Ineta Žičkutė
- Inga Kartanaitė
- Iuliia Mende
- Kaan Sayan
- Kęstutis Duoba
- Mantas Vilkas
- Manuel Eduardo Morales Rubio
- Meda Andrijauskienė
- Nargiza Mikhridinova
- Peiman Alipour Sarvari
- Rita Virgailienė
- Robert Bierwolf
- Rūta Čiutienė
- Vilmantė Kumpikaitė-Valiūnienė

Programme Committee:

- Arnesh Telukdarie
- Bassam Hussein
- Bertha Joseph Ngereja
- Beverly Pasian
- Carsten Wolff
- Christoph Juergenhake
- Elena Vitkauskaitė
- Florian Rademacher
- Galyna Tabunshchik
- Holger Timinger
- Ineta Žičkutė
- Ingrida Šarkiūnaitė
- Jurga Duobienė
- Jurgita Bruneckienė
- Kanesan AL Muthusamy
- Lydia Kaiser
- Mantas Vilkas
- Manuel Eduardo Morales Rubio
- Maria Jose Miranda-Martel
- Markus Schmidtner
- Meda Andrijauskienė
- Megashneee Munsamy
- Muhammad Mubarak
- Nigel Williams
- Olena Verenych
- Peiman Alipour Sarvari
- Peter Arras
- Raminta Benetytė
- Ramunė Čiarnienė
- Rolando Bautista Montesano

- Rūta Čiutienė
- Sebastien Martin
- Semih Severengiz
- Vilmantė Kumpikaitė-Valiūnienė
- Živilė Stankevičiūtė

Special Guests:

- Aistė Lukaševičiūtė
- Alessia Bellini
- Andrius Grybauskas
- Andrea Belz
- Anna Schidek
- Arturas Kuliešas
- August Hubert Wierling
- Bart Kappel
- Claudia Doering
- Darius Pupeikis
- Eglė Radvilė
- Lydia Kaiser
- Manuel Eduardo Morales Rubio
- Morteza Ghobakhloo
- Peiman A. Sarvari
- Peter Arras
- Rebecca Hegemann-Rockel
- Sébastien Spanneut
- Thorsten Ruben
- Valeria Jana Schwanitz
- Vytautas Ašeris

SCHEDULE

Address for **on-site** participation: [KTU Library, Studentų st. 48 Kaunas 51367, Lithuania](https://www.ktu.lt/en/locations/ktu-library)

Time Zone for **online** participation: **Eastern European Summer Time (EEST / UTC+3)**. See next page for details

Portal: <https://online.etems.digital/>. All participants can join the online part of the conference via the portal!

Wednesday, 19.04.2023, 17:00 – 20:00: Social Programme: Meet & Greet at Lithuanian brewery bar "Genys Taproom". **On-site:** [Laisvės al. 21, 44311 Kaunas, Lithuania](https://www.ktu.lt/en/locations/genys-taproom)

| Time | Thursday, 20.04.2023 | | Time | Friday, 21.04.2023 | | Time | Saturday, 22.04.2023 | |
|-------------|--|--|-------------|--|--|-------------|---|--|
| 09:00-09:30 | Opening of the Conference by Beverly Pasion and Elena Vitkauskaitė Hybrid (Room M8 + Portal) | | 09:00-10:00 | Keynote: "Smart, not outsmarted citizens" by Valeria Jana Schwanitz Hybrid (Room M8 + Portal) | | 09:30-10:30 | Keynote: "A story from Vinted: how we improve quality of our members' lives" by Vytautas Ašeris Hybrid (Room M8 + Portal) | |
| 09:30-10:30 | Keynote: "Developing Kaunas – Projects that Make the City Smart(er)" by Aistė Lukaševičiūtė Hybrid (Room M8 + Portal) | | 10:00-10:30 | Continuing the Belgian story by Peter Arras Hybrid (Room M8 + Portal) | | 10:30-11:00 | Continuing the Bilbao story by Beverly Pasion Hybrid (Room M8 + Portal) | |
| 10:30-10:45 | <i>Networking Coffee Break (Room M9)</i> | | 10:30-10:45 | <i>Networking Coffee Break (Room M9)</i> | | 11:00-11:15 | <i>Networking Coffee Break (Room M9)</i> | |
| 10:45-12:15 | Roundtable: Innovation and Data relevance in Industry 4.0 transition: Experiences from the IN4ACT Project Hybrid (Room M7 + Portal) | Forming Digital Ecosystems Online (Portal) | 10:45-12:15 | Resilience of Organisations, Networks and Cities On-Site (Room M7) | Poster Discussions Online (Portal) | 11:15-12:45 | Digital Transformation towards Training & Education On-site (Room M7) | "Tailor the Project Management of the future" workshop Online (Portal) |
| 12:15-12:45 | Continuing the Lithuanian story by Eglė Radvilė Hybrid (Room M8 + Portal) | | | | | | | |
| 12:45-14:00 | <i>Lunch Break (Room M9)</i> | | 12:15-13:15 | <i>Lunch Break (Room M9)</i> | | 12:45-13:45 | <i>Lunch Break (Room M9)</i> | |
| 14:00-15:30 | TechTalks session: Arturas Kuliešas, Darius Pupeikis, Bart Kappel, and Sébastien Spanneut Hybrid (Room M8 + Portal) | | 13:15-13:45 | Continuing the Dortmund story by Carsten Wolff Hybrid (Room M8 + Portal) | | 13:45-14:45 | Data Strategy Workshop for Industries Hybrid (Room M7 + Portal) | Doctoral Workshop: Presentation of Results Hybrid (Room M8 + Portal) |
| | | | 13:45-15:15 | Achieving Quality of Life in Smart Cities through Projects On-Site (Room M7) | Engineering Smart Cities Online (Portal) | 14:45-15:15 | Continuing the Trondheim story by Alessia Bellini Hybrid (Room M8 + Portal) | |
| 15:30-16:00 | <i>Networking Coffee Break + Group photo (Room M9)</i> | | 15:15-15:30 | <i>Networking Coffee Break (Room M9)</i> | | 15:15-15:30 | <i>Networking Coffee Break (Room M9)</i> | |
| 16:00-17:00 | | | 15:30-18:00 | Quality-of-life in Smart Cities: The role of Projects; "Smart City Curriculum Development" Workshop Hybrid (Room M7 + Portal) | Doctoral Workshop On-site (Room M6) | 15:30-16:15 | Leadership Insights: Technology & Engineering Management Society by Andrea Belz Hybrid (Room M8 + Portal) | |
| 17:00-19:00 | Social Programme: VR movie "Trail of Angels" at M. K. Čiurlionis National Museum of Art On-site: V. Putvinskio g. 55, 44248 Kaunas, Lithuania | | 18:00-19:00 | | | 16:15-17:00 | Writing a QoL Research Agenda; "What will this IEEE E-TEMS series be talking about in future?" Hybrid (Room M8 + Portal) | |
| | | | 19:00-22:00 | Social Programme: Dinner at Miesto sodas On-site: Laisvės al. 93, 44297 Kaunas, Lithuania | | 17:00-17:30 | Award session + Closure of the Conference Hybrid (Room M8 + Portal) | |

TIME DIFFERENCE

Relevant only for **online** participants.

The conference time corresponds with the **EEST (East European Summer Time)** time zone, where **Lithuanian** time is the reference point.

On the **IEEE E-TEMS 2023** conference [portal](#) you can find the 'live' Time difference in relation to the Conference time.

| Country | Time zone | Time zone Shortcut | Full time zone name | Time difference (in relation to Lithuania) |
|--------------------|-----------|--------------------|----------------------------------|--|
| Lithuania | UTC+3 | EEST | Eastern European Summer Time | 0 |
| Norway | UTC+2 | CEST | Central European Summer Time | -1 |
| Germany | UTC+2 | CEST | | |
| Italy | UTC+2 | CEST | | |
| France | UTC+2 | CEST | | |
| Poland | UTC+2 | CEST | | |
| Slovakia | UTC+2 | CEST | | |
| Luxembourg | UTC+2 | CEST | | |
| Saudi Arabia | UTC+3 | AST | Arabia Standard Time | 0 |
| Ukraine | UTC+3 | EEST | Eastern European Summer Time | |
| India | UTC+5:30 | IST | India Standard Time | +2:30 |
| Malaysia | UTC+8 | MYT | Malaysia Time | +5 |
| South Korea | UTC+9 | KST | Korea Standard Time | +6 |
| Australia (Sydney) | UTC+10 | AEST | Australian Eastern Standard Time | +7 |
| CA, USA | UTC-7 | PDT | Pacific Daylight Time | -10 |

FORMAT TYPES OF PAPERS PRESENTATION

ON-SITE/ONLINE ORAL PRESENTATIONS:

- 7** 5-Safe: AI-based Road Safety Enhancement for Schoolchildren using 5G
(Dominic Scholze, Abdullah Al-Khatib, Ahmed Chebaane, Tobias Ziegler, Abdelmajid Khelil, Henriette Röger, Marcel Müller, Michael Spateneder, Ranothan Ravichandran, Tim Laine, Michael Luger, Holger Timinger, Bettina Kühbeck)
- 8** Methods and Tools for Minimizing the Power Consumption of Wireless Sensor Network
(Anastasiia Yatsenko, Carsten Wolff, Anzhelika Parkhomenko, Artem Tulenkov)
- 12** Smart Process Modeling for Smart City Operations
(Markus Schmidtner, Anna Schidek and Holger Timinger)
- 15** Smart City Replication Engineering: A Conceptual Framework
(Patrick Ruess)
- 16** Limitations of Results-Based Management on the Example of the Police Force of North-Rhine Westphalia
(Corinna Köbler)
- 22** How Colleges and Universities Are Driving to Digital Transformation Today: Conceptual Model of Digital University (designed for The University of Georgia)
(Roya Anvari, Kumpikaitė-Valiūnienė Vilmantė, Mariam Janjaria)
- 23** Blockchain Civic Tech for Smarter Cities: Governance Challenges from a Multistakeholder Ecosystem Perspective
(Beatrice Ietto, Federica Pascucci, Jochen Rabe and Sara Bartoloni)
- 26** Key-drivers Identification for Industrial Symbiosis Entailing Circular Economy Transition in Europe
(Manuel E. Morales, Luis J. Belmonte-Ureña, Ana Batlles-de la Fuente)
- 27** An Autonomous Energy Management Concept for Sustainable Smart Cities
(Ulrich Ludolfinger, Maren Martens)
- 28** Determinants of Digital Governance in the Development of Smart Cities
(Roya Anvari, Kumpikaitė-Valiūnienė Vilmantė, Mariam Janjaria)
- 30** The Interplay Between Individual Nurse Resilience and Organizational Hospital Resilience During Critical Events
(Neringa Gerulaitiene, Irene Georgescu, Marlene Barreda and Yana Us)
- 32** Early Flood Monitoring and Detection System with a Machine Learning's Neural Network Technique and IoT Platform
(Harinidevi Nadarajan, Nagesparan Ainarappan, Farah Adilah Binti Jamaludin)
- 33** Restorative Social Justice Through Digital Transformation in South African Metropolitan Cities
(Ayanda Ntanda, Randall Carolissen and Funmilayo Adegaju)
- 34** A Bibliometric Analysis of an Urban Ecosystem Simulation Framework
(Tatenda Katsumbe, Arnesh Telukdarie, Megashnee Munsamy)
- 35** Architecture Approach to Manage Electricity Utility in a Smart City
(Sello S. Pokane, Musa C. Shilenge, Arnesh Telukdarie)
- 36** Smart City Development Using Transit-Oriented-Development (T.O.D) and Walkability
(Jaeshik Shin, Young Hoon Kwak, Changwoo Park)
- 37** Transformations Towards 5.0: Perspective of Industry, Education and Society
(Vaida Jonaitienė, Jurgita Barynienė, Asta Daunorienė)
- 38** Blockchain-based Task Planning and Management System for Project Management
(Ronja Brüggemann and Holger Timinger)
- 39** Framework for the Comparison of Different Transportation Modes Under the Aspects Time and Greenhouse Gas Emissions
(Oskar Bauer, Jaron Schünemann, Thomas Spelten, Semih Severengiz)



- 40** Quantifying the Implementation Risks of Product Lifecycle Management for Improved Digitalization
(Shikha Singh, Aman Mittal and Subhas Chandra Misra)
- 42** Concept of Smart Twin City Bratislava
(Nataliia Yehorchenkova, Oleksii Yehorchenkov, Marosh Finka, Vladimír Ondrejčka, Ľubomir Jamečný)
- 43** Improving Digital Project Management Competencies: Case Study of a Digital Marketing Agency in Lithuania
(Simonas Steponaitis, Meda Andrijauskienė)
- 44** Review of the Framework for Updating the Geometry of a Digital Twin
(Iryna Osadcha, Andrius Jurelionis, Paris Fokaides)
- 47** Agile Framework for the Elaboration of E-learning Materials
(Peter Arras and Galyna Tabunshchuk)
- 48** Governance Ambidexterity in Digital Transformation
(Mansoor Mohammed, Louis J Taborda)
- 50** Competences and the Digital Transformation: Case Study of a German Management Consultancy
(Nargiza Mikhridinova, Bertha Joseph Ngereja, Leonardo Sastoque Pinilla, Daniel Neumann, Carsten Wolff, Wim Van Petegem)
- 51** Overview of Smart City Rankings and Their Evaluation Criteria: European Perspective
(Anna Matwiejczyk and Sandra Snarska)
- 53** The Effectiveness and Attractiveness of Employer Branding: The Effects and Role of Gamification in Recruitment Activities
(Lasha Abuladze, Lumbardha Hasimi)
- 57** Conceptual Framework for Implementing a User Education System Based on Blended Learning in Smart Cities
(Rūta Čiutienė, Nataliia Kholiavko, Andrii Karpenko and Dmytro Plynokos)

POSTERS:

- 4** A Comprehensive Way to Speed Up the Text Classification Process for Smart Systems
(Tetiana Holub, Irina Zeleneva, Carsten Wolff, Galyna Tabunshchuk, Svitlana Hrushko, Artem Didenko)
- 6** Modular Zero-Emission Fast Ferries in Smart-Cities
(Tobias Seidenberg, Jan-Philipp Disselkamp, Christoph Jürgenhake, Mikal Dahle)
- 10** Study on Peppermint Scent Interventions for Fatigue Driving
(Xinyue Jiang, Kanesan Muthusamy, Nagesparan Ainarappan)
- 41** Challenges in Digital Transformation of Business Processes Towards Creating a Paperless Environment: Case of an Aircraft Manufacturing Firm
(Prince Ranjan, Shiv Chaudhari, Shikha Singh)
- 46** Simulation and Experience Enhancement of Inspection Points: the Case of Makkah in Ramadhan
(Ageel Abdulaziz Alogla, Ahmed Salem Alhasani)
- 52** Simulation Model for Determining Quality of Life in Ukrainian Cities During the War
(Khrystyna Lipianina-Honcharenko, Anatoliy Sachenko, Carsten Wolff, Yevgeniy Bodyanskiy)



THURSDAY, 20.04.2023

09:00 – 09:30 Opening of the Conference

Hybrid (Room M8 + Portal)

■ Beverly Pasion (Conference Series Chair)

■ Elena Vitkauskaitė (Conference Chair)

09:30 – 10:30 Keynote: Developing Kaunas – projects that make the city smart(er)

Hybrid (Room M8 + Portal)

■ Aistė Lukaševičiūtė

Head of Investment and Project Division at Kaunas City Municipality

10:30 – 10:45 Networking Coffee Break (Room M9)

10:45 – 12:15 Roundtable: Innovation and Data, relevance in Industry 4.0 transition: Experiences from the IN4ACT Project

Hybrid (Room M7 + Portal)

■ Manuel Morales (moderator)

Researcher at IN4ACT ERA Chair team, School of Economics and Business, Kaunas University of Technology), and Executive board member at the ERASME Excellent Centre for Sustainability

Speakers:

■ Valeria Jana Schwanitz

Professor at the Department of Environmental Sciences, Western Norway University of Applied Sciences, and Distinguished Fellow at the Schumacher Institute for Sustainable Systems

■ August Hubert Wierling

Professor at the Department of Environmental Sciences, Western Norway University of Applied Sciences, and Distinguished Fellow at the Schumacher Institute for Sustainable Systems

■ Sébastien Spanneut

Mobility & Transactional Services Business lines, Track & Trace Program Director at Worldline

■ Morteza Ghobakhloo

Researcher at IN4ACT ERA Chair team, School of Economics and Business, Kaunas University of Technology

■ Andrius Grybauskas

Researcher at IN4ACT ERA Chair team, School of Economics and Business, Kaunas University of Technology

10:45 – 12:15 Forming Digital Ecosystems

(Chairs: Ineta Žičkutė and Farrukh Qureshi)

Online (Portal)

■ 7 5-Safe: AI-based Road Safety Enhancement for Schoolchildren using 5G (Dominic Scholze, Abdullah Al-Khatib, Ahmed Chebaane, Tobias Ziegler, Abdelmajid Khelil, Henriette Röger, Marcel Müller, Michael Spateneder, Ranathan Ravichandran, Tim Laine, Michael Luger, Holger Timinger, Bettina Kühbeck)

■ 15 Smart City Replication Engineering: A Conceptual Framework (Patrick Ruess)

■ 23 Blockchain Civic Tech for Smarter Cities: Governance Challenges from a Multistakeholder Ecosystem Perspective (Beatrice Ietto, Federica Pascucci, Jochen Rabe and Sara Bartoloni)

■ 48 Governance Ambidexterity in Digital Transformation (Mansoor Mohammed, Louis J Taborda)

■ 53 The Effectiveness and Attractiveness of Employer Branding: The Effects and Role of Gamification in Recruitment Activities (Lasha Abuladze, Lumbardha Hasimi)



12:15 – 12:45 Continuing the Lithuania story

Hybrid (Room M8 + Portal)

■ Eglė Radvilė

Digital Futurist Angel, Author of Vilnius Digital Strategy, Digital Train board & Harvard Digital Program member, Keynote speaker & IT PhD

12:45 – 14:00 Lunch Break (*Room M9*)

14:00 - 15:30 TechTalks Session

Hybrid (Room M8 + Portal)

TechTalks:

■ Arturas Kuliešas - "How Smart Grids Enable the Digital Energy Future: the Baltic Perspective"

Synchronisation Programme Manager at Litgrid AB, Board Member of Lithuanian Project Management Association (IPMA Lietuva)

■ Darius Pupeikis - "Kaunas Digital Twin"

Head of the Centre of Smart Cities and Infrastructure at Kaunas University of Technology

■ Bart Kappel - "Are smart cities that far away? Real life hands-on experience and insights from the business"

AI & Data Projects Lead at TeleSoftas

■ Sébastien Spanneut - "How digital traceability will enable data collection to support today's world sustainable challenges? Examples of EU Tobacco Products Directive and EU Digital Product Passport initiatives"

Mobility & Transactional Services Business lines, Track & Trace Program Director at Worldline

Panel discussion

■ Andrius Grybauskas (Moderator)

Researcher at IN4ACT ERA Chair team, School of Economics and Business, Kaunas University of Technology

15:30 – 16:00 Networking Coffee Break + Group Photo (*Room M9*)

17:00 – 19:00 Social Programme: VR movie "Trail of Angels" at M. K. Čiurlionis National Museum of Art

On-site ([V. Putvinskio g. 55, 44248 Kaunas, Lithuania](https://www.putvinskio.lt/))



FRIDAY, 21.04.2023

09:00 - 10:00 Keynote: Smart, not outsmarted citizens

Hybrid (Room M8 + Portal)

■ Valeria Jana Schwanitz

Professor at the Department of Environmental Sciences, Western Norway University of Applied Sciences, and Distinguished Fellow at the Schumacher Institute for Sustainable Systems

10:00 – 10:30 Continuing the Belgium story

Hybrid (Room M8 + Portal)

■ Peter Arras

Senior lecturer at the Faculty of Engineering Technology at Katholieke Universiteit Leuven

10:30 – 10:45 Networking Coffee Break (*Room M9*)

10:45 – 12:15 Resilience of Organisations, Networks and Cities

On-Site (Room M7)

(Chairs: Manuel Morales and Valeria Jana Schwanitz)

- 26 Identification of Key Drivers in the Transition Towards Circular Economy Within Industrial Symbiosis in Europe (Manuel E. Morales, Luis J. Belmonte-Ureña, Ana Batlles-de la Fuente)
- 35 Architecture Approach to Manage Electricity Utility in a Smart City (Sello S. Pokane, Musa C. Shilenge, Arnesh Telukdarie)
- 39 Framework for the Comparison of Different Transportation Modes Under the Aspects Time and Greenhouse Gas Emissions (Oskar Bauer, Jaron Schünemann, Thomas Spelten, Semih Severengiz)
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- 43 Improving Digital Project Management Competencies: Case Study of a Digital Marketing Agency in Lithuania (Simonas Steponaitis, Meda Andrijauskienė)
- 44 Review of the Framework for Updating the Geometry of a Digital Twin (Iryna Osadcha, Andrius Jurelionis, Paris Fokaides)

10:45 – 12:15 Poster Discussions

Online (Portal)

(Chairs: Jurga Duobienė and Nargiza Mikhridinova)

- 4 A Comprehensive Way to Speed Up the Text Classification Process for Smart Systems (Tetiana Holub, Irina Zeleneva, Carsten Wolff, Galyna Tabunshchyk, Svitlana Hrushko, Artem Didenko)
- 6 Modular Zero-Emission Fast Ferries in Smart-Cities (Tobias Seidenberg, Jan-Philipp Disselkamp, Christoph Jürgenhake, Mikal Dahle)
- 10 Study on Peppermint Scent Interventions for Fatigue Driving (Xinyue Jiang, Kanesan Muthusamy, Nagesparan Ainarappan)
- 41 Challenges in Digital Transformation of Business Processes Towards Creating a Paperless Environment: Case of an Aircraft Manufacturing Firm (Prince Ranjan, Shiv Chaudhari, Shikha Singh)
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- 52 Simulation Model for Determining Quality of Life in Ukrainian Cities During the War (Khrystyna Lipianina-Honcharenko, Anatoliy Sachenko, Carsten Wolff, Yevgeniy Bodyanskiy)



12:15 – 13:15 Lunch Break (*Room M9*)

13:15 – 13:45 Continuing the Dortmund story

Hybrid (Room M8 + Portal)

 Carsten Wolff

Professor at Dortmund University of Applied Sciences and Arts

13:45 – 15:15 **Achieving Quality of Life in Smart Cities through Projects**

On-site (Room M7)

(Chairs: Beverly Pasion and Vilmantė Kumpikaitė-Valiūnienė)

16 Limitations of Results-Based Management on the Example of the Police Force of North-Rhine Westphalia

(Corinna Köbler)

28 Determinants of Digital Governance in the Development of Smart Cities

(Roya Anvari, Kumpikaitė-Valiūnienė Vilmantė, Mariam Janjaria)

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(Ayanda Ntanda, Randall Carolissen, Funmilayo Adegbaaju)

34 A Bibliometric Analysis of an Urban Ecosystem Simulation Framework

(Tatenda Katsumbe, Arnesh Telukdarie, Megashnee Munsamy)

13:45 – 15:15 **Engineering Smart Cities**

Online (Portal)

(Chairs: Galyna Tabunshchuk and Gediminas Marcinkevičius)

8 Methods and Tools for Minimizing the Power Consumption of Wireless Sensor Network (Anastasiia Yatsenko, Carsten Wolff, Anzhelika Parkhomenko, Artem Tulenkov)

27 An Autonomous Energy Management Concept for Sustainable Smart Cities (Ulrich Ludolfinger, Maren Martens)

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30 The Interplay Between Individual Nurse Resilience and Organizational Hospital Resilience During Critical Events (Neringa Gerulaitiene, Irene Georgescu, Marlene Barreda and Yana Us)

15:15 – 15:30 Networking Coffee Break (*Room M9*)

15:30 – 18:00 Quality-of-life in Smart Cities: The role of Projects

Hybrid (Room M7 + Portal)


 Beverly Pasion

E-TEMS Series Chair, Professor at Utrecht University of Applied Sciences

Workshop: Smart City Curriculum Development

 Beverly Pasion

E-TEMS Series Chair, Professor at Utrecht University of Applied Sciences

 Thorsten Ruben

Coordinator of International Master Programmes at Dortmund University of Applied Sciences and Arts

 Rebecca Hegemann-Rockel


Ruhr Master School of Applied Sciences (RMS), Dortmund University of Applied Sciences and Arts

15:30 – 18:00 Doctoral Workshop


On-site (Room M6)

 Lydia Kaiser


Head of the department Digital Engineering 4.0 at Technische Universität Berlin and the Einstein Center Digital Future


 Ayanda Ntanda and Randall Carolissen

 Tamas Gyulai

 Xolani Maphisa

 Felix Rehmann

 Tatenda Katsumbe, Arnesh Telukdarie and Megashnee Munsamy

 Constantin von Beck

19:00 – 21:00 Social Programme: Dinner at Miesto sodas

On-site: [Laisvės al. 93, 44297 Kaunas, Lithuania](#)



SATURDAY, 22.04.2023

09:30 – 10:30 Keynote: A story from Vinted: How We Improve Quality of Our Members' Lives
Hybrid (Room M8 + Portal)

 Vytautas Ašeris

Director of Engineering at Vinted; PhD, partnership professor at Vilnius University, Faculty of Mathematics and Informatics

10:30 – 11:00 Continuing the Bilbao story
Hybrid (Room M8 + Portal)

 Beverly Pasian

E-TEMS Conference Series Chair, Professor at Utrecht University of Applied Sciences

11:00 – 11:15 Networking Coffee Break (*Room M9*)

11:15 – 12:45 Digital Transformation towards Training & Education

On-site (Room M7)

(Chairs: Rūta Čiutienė and Peter Arras)

22 How Colleges and Universities Are Driving to Digital Transformation Today: Conceptual Model of Digital University (Designed for the University of Georgia) (Roya Anvari, Kumpikaitė-Valiūnienė Vilmantė, Mariam Janjaria)

37 Transformations Towards 5.0: Perspective of Industry, Education and Society (Vaida Jonaitienė, Jurgita Barynienė, Asta Daunorienė)

47 Agile Framework for the Elaboration of E-learning Materials (Peter Arras and Galyna Tabunshchik)

50 Competences and the Digital Transformation: Case Study of a German Management Consultancy (Nargiza Mikhridinova, Bertha Joseph Ngereja, Leonardo Sastoque Pinilla, Daniel Neumann, Carsten Wolff, Wim Van Petegem)


57 Conceptual Framework for Implementing a User Education System Based on Blended Learning in Smart Cities (Rūta Čiutienė, Nataliia Kholiavko, Andrii Karpenko and Dmytro Plynokos)

11:15 – 12:45 Workshop: Tailor the Project Management of the future

Online (Portal)

 Anna Schidek (moderator)

Institute for Data and Process Science at University of Applied Sciences Landshut

 Claudia Doering (moderator)

Research associate and project coordinator at University of Applied Sciences Landshut

12 Smart Process Modeling for Smart City Operations (Markus Schmidtner, Anna Schidek and Holger Timinger)

38 Blockchain-based Task Planning and Management System for Project Management (Ronja Brüggemann and Holger Timingere)

40 Quantifying the Implementation Risks of Product Lifecycle Management for Improved Digitalization (Shikha Singh, Aman Mittal and Subhas Chandra Misra)

51 Overview of Smart City Rankings and Their Evaluation Criteria: European Perspective (Anna Matwiejczyk and Sandra Snarska)

12:45 – 13:45 Lunch Break (*Room M9*)



13:45 – 14:45 Data Strategy Workshop for Industries

Hybrid (Room M7 + Portal)

■ Peiman A. Sarvari

Researcher at IN4ACT ERA Chair team,
School of Economics and Business,
Kaunas University of Technology;
Luxembourg Institute of Technology

13:45 – 14:45 Doctoral Workshop:
Presentation of the Results

Hybrid (Room M8 + Portal)

■ Lydia Kaiser

Head of the department Digital
Engineering 4.0 at Technische Universität
Berlin and the Einstein Center Digital
Future

■ Ayanda Ntanda and Randall Carolissen

■ Tamas Gyulai

■ Xolani Maphisa

■ Felix Rehmann

■ Tatenda Katsumbe, Arnesh Telukdarie
and Megashnee Munsamy

■ Constantin von Beck

14:45 – 15:15 Continuing the Trondheim story

Hybrid (Room M8 + Portal)

■ Alessia Bellini

Department of Mechanical and Industrial Engineering at NTNU (Norwegian
University of Science and Technology)

15:15 – 15:30 Networking Coffee Break (*Room M9*)

15:30 – 16:15 Leadership Insights: Technology & Engineering Management Society

Hybrid (Room M8 + Portal)

■ Andrea Belz

IEEE TEMS

16:15 – 17:00 Writing a QoL Research Agenda

Panel Discussion: What will this IEEE E-TEMS series be talking about in future?

Hybrid (Room M8 + Portal)

■ Beverly Pasion

E-TEMS Conference Series Chair, Professor at Utrecht University of Applied
Sciences

17:00 – 17:30 Award session + Closure of the Conference

Hybrid (Room M8 + Portal)

