RESEARCH GROUP

Service and Process Governance

vice and Process G search group (SPG) is active in quality management for more than 15 ye ance, Risk Management and Compliance (GRC) challenge Main expertise fields

· Engineering of process, system and product that fulfil quality requirements

esign and implementation of Privacy and Data Protection solutions
 Compliance assessment (such as: GDPR, IT Service Management, procurement...)

Research challenges

The SPG's research and innovation activities are all motivated by the following underlying challenges Goal and risk-based modelling: How to structure expected quality requirements to allow quality engineering and evaluation?

Privacy by Design: How to operationalize the privacy by design concept to develop privacy-preserving systems and data processing?
 Assessment Automation: How to make process assessment within organisations more efficient and (semi-)automated?

Application areas

ovation activities are focused on the following application fields

- Data Protection and Privacy
 IT Service Management
 IT Procurement Management
 Electronic Records Management
 Fund Management
 Information Security Management
 Business Continuity Management

- Regulatory compliance
 Standards development

Main assets

SPG has developed and published a process assessment framework called <u>TPA</u> and has applied it to the various business domains mentioned above. Notably, SPG successfully transfers the TIPA framework applied to TI service management field in the market. As companion guidance to this application of the TIPA framework is application of the TIPA framework is a developed and T solution called <u>TTPA</u> as a Service[®] or TasS that supports the deployment of our framework within user organisations. Currently, the application of the TIPA framework to the deeral bate framework is and the context in advance of the assessment framework will be shortly variable on the market.

In procurrements. In procurrement field, SPG has developed a software procurement framework, validated through market experiments and transferred to a network of consultants. The framework emphasises the description of the system requirements, including the software qualitative properties (non-functional requi software prototype has been developed alongside the framework to support requirements engineering and multi-criteria multi-stakeholders procurement decision making. Finally, several key projects are ongoing and will expand our asset portfolio:

DECEPTICON (FNR Core): Development of methods to automatically recognize, classify and resist Dark Patterns.
 SENTINE: (H2020): Bridging the security, privacy and data protection gap for smaller enterprises in Europe
 BE-GOOQ: (Interreg NWE): support public organisations in north-west Europe to design and execute their procurrent for open-data innovative services

Selected publications

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- https://doi.org/0.1007/978-3-308-2000-55 11 11. Bardott, B. Wesquida, A. L. Mas, A. ISO 3000-based integrated risk management process assessment model for IT organizations. *J Softw Evol Proc.* 2019; 31:e1984. https://doi.org/10.1002/smr.1984 12. Turki S., Martin S., Renault S., Stimulation of open data ecosystems: Learnings from theory and practice, in Open Innovation: Bridging Theory and Practice, vol. 4: Digital Innovation: Harnessing the Value of Open Data, Chapter 2, pp. 41-78, 2019, https://doi.org/10.1142/0789813271647.0002 13. Romero M., Guedria W., Panetto H., Barafott B., Towards Smart assessment: A metamodel proposal. 14th OTM/RFA/CIPI International Workshop on Enterprise Integration, inter-operability and Networking, EDX 2019, Oct 2019, Kallthea, Rhodes, Greece. pp. 12-22, 10.1007/978-3-030-40907-4_3. hal-02329055 14. Romero M., Guedria W., Panetto H., Barafott B., Towards Canacterisation of Smart systems: A Systematic Literature Review, Computers in Industry. Volume 120, 2020, 103224, ISS 1065-6315, Intustry/obj.org/10.1016/j.compind.2020.103224. 15. Romero M., Guedria W., Panetto H., Barafott B., Towards Canacterisation of Smart assessment in organisations. 21st IFAC World Congress, IFAC 2020, 1012 2020, 103224, Intustry/obj.org/10.1016/j.compind.2020.10324. 15. Romero M., Guedria W., Panetto H., Barafott B., Towards Canacterisation of Smart assessment in organisations. 21st IFAC World Congress, IFAC 2020, 1012 202, 103224. 15. Romero M., Guedria W., Panetto H., Barafott B., Towards Canacterisation of Smart assessment in organisations. 21st IFAC World Congress, IFAC 2020, 101202, 101202, 101202, 10202, 10222, 101202, 1012



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