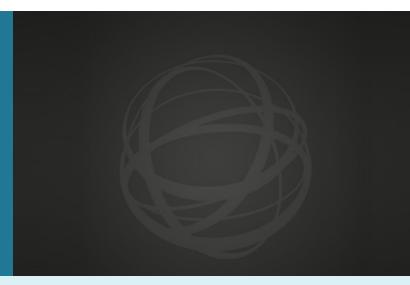
RESEARCH GROUP

Service and Process Governance



search group (SPG) is active in quality management for more than 15 year

Main expertise fields

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

Research 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?

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

SPG has developed and published a process assessment framework called TIPA and has applied it to the various business domains mentioned above. Notably, SPG successfully transfers the TIPA framework applied to IT service management field in the market. As companion guidance to this application of the TIPA framework as called "TISA Process Assessment supporting ITL" is also available. And finally, in our commitment to make our framework as efficient as possible we have also developed an IT solution called "TIPA as a Service" or Tas5 that supports the deployment of our framework within user organisations. Currently, the application of the TIPA framework to the General Data Frocetion Regulation (GDRP) is in the last stage of validation and our privacy assessment framework will be shortly available on the market. Always in the data protection field, SPG has also supported the national data protection authority by developing a self-assessment framework applied to TIPA framework to the TIPA framework to the market.

In procurement management 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 requirements and transferred to a network of consultants. The framework emphasises the description of the system requirements, including the software qualitative properties (non-functional requirements and transferred to a network of consultants. The framework emphasises the description of the system requirements, including the software qualitative properties (non-functional requirements) and transferred to a network of consultants. The framework emphasises the description of the system requirements, including the software qualitative properties (non-functional requirements) and transferred to a network of consultants. The framework emphasises the description of the system requirements, including the software qualitative properties (non-functional requirements) and the software properties (non-functional requ

- DECEPTICON (FNR Core): Development of methods to automatically recognize, classify and resist Dark Patterns.
 SENTINEL (H2202): Bridging the security, privacy and data protection gap for smaller enterprises in Europe

 BERSODE, (Interes) NWB: support public organisations in north-west Europe to design and execute their procurement for open-data innovative services

- L Bardiot B, Nesquida AL, Mas A. (2017) How to Elicit Processes for an ISO-Based Integrated Risk Management Process Reference Model in IT Settings?. In: Stolfa J., Stolfa S., O'Connor R., Messnarz R. (eds) Systems, Software and Services Process Improvement. EuroSPI 2017. Communications in Computer and Information Science, vol 748. Springer, Cham. https://doi.org/10.1007/878-3319-642185.42<a href="https
- 8. Barafort B., O'Connor R., Rout T., Dorling A. (eds) Software Process Improvement and Capability Determination. SPICE 2017. Communications in Computer and Information Science, vol 770. Springer, Cham. https://doi.org/10.1007/978-3-319-67383-7-9
 4. Cortina S., Valoggia P., Renault A., Barafort B. (2018) Process Risk Determination Supporting Data Protection Impact Assessment. In: Stamelos I., O'Connor R., Rout T., Dorling A. (eds) Software Process Improvement and Capability Determination. SPICE 2018. Communications in Computer and Information Science, vol 918. Springer, Cham. https://doi.org/10.1007/978-3-319-67383-7-9
 4. Cortina S., Valoggia P., Renault A., Barafort B. (2018) Process Risk Determination Supporting Data Protection Impact Assessment. In: Stamelos I., O'Connor R., Rout T., Dorling A. (eds) Software Process Improvement and Capability Determination. SPICE 2018. Communications in Computer and Information Science, vol 918. Springer, Cham. https://doi.org/10.1007/978-3-319-67383-7-9
- 4. Cortina S., Valoggia P., Kendur A., Barlant B., Ecusor Fruces vas Descrimination of Control of C
- 6. Barafort B, Mesquida A, Mas A, Integrated risk management process assessment model for IT organizations based on ISO 31000 in an ISO multi-standards context, Computer Standards & Interfaces, Volume 60, 2018, Pages 57-66, ISSN 0920-5489, Interfaces, Volume 60, 2018, Interfaces, Volume 60, 2018, Interfaces, Volume 60, 2018, Interfaces, Volume 60, 2018, Interfaces, Volume 60, ISSN 0920-5489, Interfaces, ISSN 0920-5489, Interfaces, ISSN 0920-5489, Interfaces, ISSN 0920-5489, Interfaces, Interfaces, ISSN 0920-5489, Interfaces, ISSN
- 7. Barafort B., Shrestha A., Cortina S., Renault A. A. software arefact to support standard-based process assessment. Evolution of the TIPA® framework in a design science research project, Computer Standards & Interfaces, Volume 60, 2018, Pages 37-47, ISSN 0920-5489, https://doi.org/10.1016/j.csi.2018.04.009.
 8. Turki S., Martin S., Renault S., 2018. BE-GOOD: open data for a smarter society. In Proceedings of the 11th International Conference on Theory and Practice of Electronic Governance (ICEGOV 18). Association for Computing Machinery, New York, NY, USA, 704-705. https://doi.org/10.1154/3209415.3209499
 9. Turki S., Martin S., Renault S., 2018. BE-GOOD: From Open Data to Value Generation. In the 31st International-Business-Information-Business-Information-Amagement and Education Excellence through vision 2020, volis of vision 3020, volis of vis
- https://doi.org/10.100/7978-3-308-28090-55-5-11

 Barafort, B. Kesquida, A. H. Dai Nesquida, A. L. Makes, A. ISO 31000-based integrated risk management process assessment model for IT organizations. J Softw Evol Proc. 2019; 31:e1984. https://doi.org/10.1002/smr.1984

 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/10.1142/9789813271647_0002

 13. Romero M., Guedria W., Panetto H., Barafort B., Towards a Characterisation of Smart Systems: A Systems and Networking, 15. Stimulation of Control of Systems and Networking, 15. Stimulation of Control of Systems and Networking, 15. Stimulation of Open Data, Chapter 2, pp. 41-78, 2019, https://doi.org/10.1142/9789813271647_0002

 13. Romero M., Guedria W., Panetto H., Barafort B., Towards a Characterisation of Smart Systems: A Systems and Networking, 15. Stimulation of Control of Systems and Networking, 15. Stimulation of Networking, 15. Stimulation of Open Data, Chapter 2, pp. 41-78, 2019, https://doi.org/10.1142/9789813271647_0002

 13. Romero M., Guedria W., Panetto H., Barafort B., Towards a Characterisation of Smart Systems: A Systems and Networking, 15. Stimulation of Networking 15

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