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Vortrag und Diskussion

Process Science and Data Science: A Match Made in Heaven!

Prof. Dr. Wil van der Aalst

Freitag | 08. Juni 2018 | 15.30 - 16.45 Uhr | Aula 2 der RWTH | Ahornstr. 55

Eintritt frei. Anmeldung nicht erforderlich. Der Vortrag findet im Rahmen des Sommerfests der Informatik der RWTH statt. Bitte pünktlich erscheinen.

The Process and Data Science (PADS) group, headed by prof.dr.ir. Wil van der Aalst, is a new research unit in RWTH's Department of Computer Science. The scope of PADS includes all activities where discrete processes are analyzed, reengineered, and/or supported in a data-driven manner. Process-centricity is combined with an array of Data Science techniques.

This talk will introduce Process Mining as a novel way to turn event data into valuable insights, predictions, and decisions. Events refer to

activities executed by resources at particular times and for particular cases. Such event data are collected everywhere; in logistics, manufacturing, finance, healthcare, customer relationship management, e-learning, e-government, and many other domains. Process Mining can be used to discover the real processes, to detect deviations from normative processes, and to analyze bottlenecks and waste.

The interplay between Process Science and Data Science generates many interesting research problems.

For example, how to deal with terabytes of event data scattered over dozens of database tables? How to use process mining responsibly (e.g., ensure fairness and confidentiality)? How to amalgamate Process Mining with Operations Research approaches (optimization, simulation, etc.)? These questions are scientifically interesting and practically relevant. This is illustrated by the 25+ commercial Process Mining tools based on the ideas developed by prof. van der Aalst and his colleagues. His talk will show different tools and their use in a variety of domains.

In Kooperation mit Fachgruppe Informatik, der Regionalgruppe der Gesellschaft für Informatik (RIA) und des Regionalen Industrieclubs Informatik Aachen (Regina e.V.)