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STADIUS
Center for Dynamical Systems, Signal Processing and Data Analytics

STADIUS Newsletter

February

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Welcome

Welcome to the February edition of the STADIUS Newsletter

News

Budget AI - Approved for 2022

We are happy to announce that after evaluating the progress of Flemish Policy Plan for Artificial Intelligence, the government has awarded a new subsidy to the Artificial Intelligence **Research Program** of 12,185 million euros, for the operating period from January 1, 2022 to December 31, 2022.

This program was first approved by the Flemish Government on March 22, 2019. It provides an annual investment of EUR 32 million and consists of 3 parts that complement and reinforce each other.

- Strenghten Basic Strategic Research
- Stimulate the use of AI in companies

- Awarness creation, training and ethical framework

UGentec -



STADIUS Spin-off scale-up UGentec, was very close to become a scale-up of the year! The software produced by this company was used wordwide for millions of lab tests in the past years.
You can read the article here.

UGentec website

And more:

- Don't forget to register for our **seasonal external STADIUS Newsletter** (and to recommend it to all your friends!)
- On 1 February Prof. De Moor hosted an important delegation of Dutch representatives working on AI. Find out more about their initiatives such as 'Nederlandse AI Coalitie' and the 'Wetenschappelijke Raad voor Regeringsbeleid'
- Flanders AI Research has started a Newsletter. Don't forget to register for it!

Events @ STADIUS

Multi-view Analysis of Temporal Data
Speaker: Prof. **Elena Tsiporkova** (Sirris)
When**: 10 March 2022**, 14:30 - 15:30
Where**: online & Heverlee** (if the COVID situation allows)
An AI for Time Series seminar, collaboration between STADIUS, VAIA & Flanders AI Research

Fairness & Bias in Natural Language Processing
What: short training in ESAT
When: **15 & 16 March 2022**
A VAIA training in collaboration with STADIUS

Scholarly Publishing and Open Access
STADIUS Seminar by Marc Moonen
When: **6th April 2022,** 14:30 - 15:30
Where: Aula Van De Tweede Hoofdwet, Thermotechnisch Instituut, Kasteelpark Arenberg

Security & Privacy of AI: Challenges and solutions for ML applications
training by the colleagues of DistriNet & COSIC (& CiTiP)
When: **4 to 8 April 2022**
Where: KU Leuven, Celestijnenlaan 200, Heverlee

For more information about STADIUS events please visit the STADIUS Event webpages.

We wish the best of luck to the researchers who will be leaving STADIUS soon

Best of luck!

This month we are saying goodbye to Laura Smets, a PhD researcher from the group of Maarten De Vos. She will continue her research career at the University of Antwerp. Good luck!

Publication Digest

Here's the monthly STADIUS Publications Digest, including new reports that have been added to the publications database.
Please remember to have your own reports added in the publications database and make sure your entries are kept up to date (status submitted/accepted/published) at all times.

Contact Ida for new additions and updates, do not add/update database content yourself.

22-14

Villa A., Ingelaere S., Jacobs B., Vandenberk B., Van Huffel S., Willems R., Varon C., "A unified framework for multi-lead ECG characterization using Laplacian Eigenmaps ", Technical Report 22-14, ESAT-STADIUS, KU Leuven (Leuven, Belgium), 2022.

22-15

Hautecoeur C., Glineur F., De Lathauwer L., "Hierarchical alternating nonlinear least squares for nonnegative matrix factorization using rational functions ", in *Proc. of the 29th European Signal Processing Conference (EUPISCO)*, Dublin, Ireland, Aug. 2021, pp. 1045-1049.
Lirias number: 3679387.

22-16

Behmandpoor P., Latafat P., Themelis A., Moonen M., Patrinos P., "SPIRAL: A Superlinearly Convergent Incremental Proximal Algorithm for Nonconvex Finite Sum Minimization ", Technical Report 22-16, ESAT-STADIUS, KU Leuven (Leuven, Belgium), 2022.

22-17

Vaulet T., Al-Memar M., Fourie H., Bourne T., Timmerman D., Naesens M., De Moor B., "Retrieving similar patients from incomplete databases with tree-based ensembles ", Technical Report 22-17, ESAT-STADIUS, KU Leuven (Leuven, Belgium), 2022.

22-18

Vaulet T., *Data-driven Diagnostic Decision Support Systems: a Secondary Use for Early Pregnancy and Kidney Transplant Databases*, PhD thesis, Faculty of Engineering, KU Leuven (Leuven, Belgium), Feb. 2022, 274 p.
Lirias number: 3655663.

22-19

He M., He F., Shi L., Huang X., Suykens J.A.K., "Learning with Asymmetric Kernels: Least Squares and Feature Interpretation ", Technical Report 22-19, ESAT-STADIUS, KU Leuven (Leuven, Belgium), 2022.

22-20

Wamba Momo L.N., Rinaldi G., Xhi X., Rademakers F., De Moor B., "Length of stay prediction using machine learning for intelligent and efficient hospital management

and the associated challenges: A systematic review ", Technical Report 22-20, ESAT-STADIUS, KU Leuven (Leuven, Belgium), 2022.

22-22

Hovine C., Bertrand A., "MAXVAR-based Distributed Correlation Estimation in a Wireless Sensor Network ", Technical Report 22-22, ESAT-STADIUS, KU Leuven (Leuven, Belgium), 2022.

22-23

Alkmim M., Cardenuto J., Tengan E., Dietzen T., van Waterschoot T., Cuenca J., De Ryck L., Desmet W., "Sound quality analysis of a hovering drone ", Technical Report 22-23, ESAT-STADIUS, KU Leuven (Leuven, Belgium), 2022.

22-24

Ashtari P., Barile B., Van Huffel S., Sappey-Marinier D., "Longitudinal Multiple Sclerosis Lesion Segmentation Using Pre-activation U-Net ", in *MSSEG-2 challenge proceedings (MSSEG-2)*, online, virtual , Sep. 2021, pp. 45-51.
Lirias number: 369882.

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