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STADIUS
Center for Dynamical Systems, Signal Processing and Data Analytics

STADIUS Newsletter

April

NEWS ▪ EVENTS ▪ PROJECTS ▪ STAFF UPDATE ▪ PUBLICATIONS

Welcome

Welcome to the April edition of STADIUS Newsletter!

News



Top delegation of KU Leuven honours medieval composer Josquin Desprez in Vatican

Last week Prof. Bart De Moor (STADIUS) accompanied rector Luc Sels and Flemish Prime Minister & Minister for Culture Jan Jambon to Rome for a two-day event to celebrate Franco-Flemish composer Josquin Desprez, who died 500 years ago. Desprez, a star of medieval polyphonic music, is now researched at the Alamire foundation (in Abdij Van Park). During the visit, they invited Pope Franciscus to Leuven to celebrate the 500-year existence of KU Leuven in 2025. Furthermore, the celebrations comprised an audience with Cardinal Pietro Parolin ("Secretary of State" of the Vatican), a visit to the Belgian embassy in Rome, to the Sistine Chapel to admire the signature of Josquin in the loggia, and a two-day academic

symposium moderated by Prof. David Burn of the KU Leuven Musicology Research Unit.

- Trip report
- Alamire Foundation research
- Josquin Desprez
- Discover more about the unique 'Leuven Chansonnier' in De Afspraak (Dutch)



SOUNDS Workshop

The Horizon 2020 Marie Skłodowska-Curie Actions European Training Network, **SOUNDS**, hosted its 2nd research workshop in Leuven from the 28th March – 1st April, 2022.
About 30 participants including professors and Ph.D. students from UK, Germany, and Denmark spent the week in Leuven involved in soft-skills training as well as technical collaboration initiatives.
For those of you who have not *heard* about SOUNDS – the acronym stands for Service-Oriented, Ubiquitous, Network-Driven Sound. The project seeks to reshape the way in which we interact with the sounds that can be captured, processed, and reproduced from the ubiquity of mobile and wearable devices in our everyday environments.
The project is being **coordinated by KU Leuven** under Prof. Toon van Waterschoot.
More info can be found on the **project website:** https://www.sounds-etn.eu

Resolution AI - proposal

On 9 March 6 members of the Flemish Parliament (Stijn De Roo, Andries Gryffroy, Maurits Vande Reyde, Axel Ronse, Robrecht Bothuyne and Rita Moors) launched a proposal of resolution about the 'opportunities of artificial intelligence and the conditions for the implementation in Flanders'.
They ask the Flemish Government to increase or at least maintain its efforts to promote AI and to highten awareness for this gamechanging technology that will transform Flanders' economy and jobs in the near future.
The resolution stresses the importance of both Flanders AI Research as well as VAIA.
Read the full proposal 1775 (2020-2022) - Nr.1 "About the opportunities of artificial intelligence and the conditions for the implementation in Flanders"

Events @ STADIUS

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

AI for Time Series: Model learning in linear dynamic networks

Speaker: **Paul Van den Hof** (TU Eindhoven)

When**: 5th May 2022,** 14:30 - 15:30

Where**: Online & Aula van de Tweede Hoofdwet**

An AI for Time Series seminar, collaboration between STADIUS, VAIA & Flanders AI Research

AI for Time Series

Speaker: **Michel Verhaegen** (TU Delft)

When**: 19th May 2022,** 14:30 - 15:30

Where**: Online & Aula van de Tweede Hoofdwet**

An AI for Time Series seminar, collaboration between STADIUS, VAIA & Flanders AI Research

AI for Time Series: Multi-period financial stress testing: an integrated risk view

Speaker: **Tony Van Gestel** (Dexia)

When**: 2nd June 2022,** 14:30 - 15:30

Where**: Online & Aula van de Tweede Hoofdwet**

An AI for Time Series seminar, collaboration between STADIUS, VAIA & Flanders AI Research

STADIUS Seminar by Lieven De Lathauwer

Speaker: **Lieven De Lathauwer**

When**: 8th June 2022,** 14:30 - 15:30

Where**: Esat, Aula L**

AI for Time Series: Matching Structured Data

Speaker: Romain Tavenard **(Université de Rennes 2)**

When**: 16th June 2022,** 14:30 - 15:30

Where**: Online & Aula van de Tweede Hoofdwet**

An AI for Time Series seminar, collaboration between STADIUS, VAIA & Flanders AI Research

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A warm welcome to all

New colleagues

researchers that started at STADIUS in April 2022!

This month @ Stadius we welcome a **new visitor**: Wei Jiang who will work in the group of Panos till end of May.

Best of luck!

We wish the best of luck to the researchers leaving STADIUS in April

Amalia Villa Gomez, a researcher from Sabine Van Huffel's group is leaving STADIUS after successfully defendeing her PhD on the 14th of April.
She will take a break and think on what she wants to do next: "Sometimes life goes too fast"
We wish her success in the future.

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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.

22-33

Weerasekera A., Ion-Margineanu A., Nolan G., Mody M., "Subcortical brain morphometry differences between adults with autism spectrum disorder and schizophrenia", *Brain Sciences*, vol. 12, no. 439, 2022, pp. 1-16.
Lirias number: 3717185.

22-34

De Bosscher R., Moeyersons J., Dausin C., Claeys M., Janssens K., Claus P., Goetschalckx K., Bogaert J., Van De Heyning C.M., Paelinck B., Sanders P., Kalman J., Van Huffel S., Varon C., La Gerche A., Heidbuchel H., Claessen G., Willems R., "Relating QRS voltages to left ventricular mass and body composition in elite endurance athletes", Technical Report 22-34, ESAT-STADIUS, KU Leuven (Leuven, Belgium), 2022.

22-35

Latafat P., Patrinos P., "Primal-dual algorithms for multi-agent structured optimization over message-passing architectures with bounded communication delays", *Optimization Methods and Software*, Feb. 2022, pp. 1-28.
Lirias number: 3703225.

22-36

Villa A., *High-Dimensional Techniques for ECG Analysis*, PhD thesis, Faculty of Engineering, KU Leuven (Leuven, Belgium), Apr. 2022
Lirias number: 3693687.

22-39

Simm J., Arany Y., De Brouwer E., Moreau Y., "Expressive graph informer networks", in *Proc. of the 1st Symposium on Artificial Intelligence and Neuroscience (ACAIN). Machine Learning, Optimization and Data Science (LOD 2021) (7th Int. Conf. on*

Machine Learning, optimization and Data Sience (LOD)/1st Symposium on Artificial Intelligence and Neuroscience (ACAIN)), Grasmere Lake District, UK, Oct. 2021, pp. 198-212.
Lirias number: 3718620.

22-40

Raimondi D., Massimiliano C., Fariselli P., Moreau Y., "From genotype to phenotype in Arabidopsis thaliana : in-silico genome interpretation predicts 288 phenotypes from sequencing data", *Nucleic Acids Research*, vol. 50, no. 3, Nov. 2021, 11 p.
Lirias number: 3710472.

22-41

Shi X., Qu T., van Pottelbergh G., Van den Akker M., De Moor B., "A resampling method to improve the prognostic model of end-stage kidney disease : A better strategy imbalanced data", *Frontiers in Medicine*, vol. 9, Mar. 2022, pp. 730-748.
Lirias number: 3716519.

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