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STADIUS
Center for Dynamical Systems, Signal Processing and Data Analytics



DECEMBER

AWARDS ▪ NEWS ▪ EVENTS ▪ PROJECTS ▪ STAFF UPDATE ▪ PUBLICATIONS

Welcome

Have a joyous Christmas Holidays season and a happy and peaceful New Year 2022.

News



Journal 'Human Genetics' retracts paper following campaign of Yves Moreau

Influential scientific journal 'Human Genetics' has retracted a paper because the results were based on DNA of vulnerable Chinese minorities. The DNA samples in question were collected from nearly 38,000 men in China, including Tibetans and Uyghurs who almost certainly did not give proper consent.

Yves Moreau (who spearheaded the retraction campaign), said he was thankful that editor Springer Nature had investigated the problem. However, there is more work to be done, noting that the paper's findings had been used in over two dozen other papers.
Read more about this in:

- "Retraction Note to: Revisiting the male genetic landscape of China: a multi-center study of almost 38,000 Y-STR haplotypes" - Springer Link, 11 Dec.

- "Journal retracts paper based on DNA of vulnerable Chinese minorities" - The Intercept, 13 Dec.
- "Belgische wetenschapper gaat strijd aan met genetisch onderzoek gelinkt aan veiligheidsdiensten" - De Morgen, 22 Dec. (in Dutch)



Health House in National Geographic

National Geographic wrote an article about Leuven and Health House is one of their tips to visit in article 'The Belgian city where the Big Bang theory was born'. Health House is a joint project by several local entities, including KU Leuven, UZ Leuven, imec, and the city of Leuven. It offers immersive exhibits that explore the future of healthcare. Prof. De Moor is chairman of Health House.

And more:

- Check out the new website of the most recent STADIUS Spinoff: Aspect Analytics: https://www.aspect-analytics.com/
- On Thursday 16 December Bart De Moor had a debate with Belgian Secretary of State Thomas Dermine about "AI in Healthcare", in the series "In digital we trust". Watch the video here: https://indigitalwetrust.be/index-nl.html

Events @ STADIUS

AI for Time Series: Distribution-free prediction intervals for time series forecasting

Speaker: Prof. **Willem Waegeman** (UGent)

When**: 10 february 2022**, 14:30 - 15:30

Where**: online & Heverlee** (if the COVID situation allows)

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

New Projects @ STADIUS

On December 16 FWO Published the results of the 2021 Call for Research Projects. We are happy to announce that the following projects were accepted:

- FWO Project (Junior): "Taming Nonconvexity in Structured Low-Rank Optimization”
    - Promotors: **Panos Patrinos** (STADIUS) & Ahookhosh Masoud (UAntwerp)
- FWO Project (Senior): "Towards natural brain-computer interfaces: representation learning for identifying the temporal encoding of realistic video footage in EEG"
    - Promotors: **Alexander Bertrand** (STADIUS) & Tuytelaars Tinne (PSI)

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

Best of luck!

- Dries Hendrikx, from BIOmed group has just defended his PhD on 13/12 (supervised by Sabine Van Huffel, Alexander Caicedo and Gunnar Naulaers). He will now pursue his career at Bank Van Breda in Antwerp, starting January 3. He will work there as a software engineer on the online banking platform, on data visualisation and data analysis.
- Thibaut Vaulet will soon take a post-doctoral position at the UZ Leuven in Prof Naesens' group.

Also 4 Early Stage Researchers: Berardinao Barile, Mohammad Khazaei, Khadijeh Raeisi, Xiaowan Wang, who had their research assignment at STADIUS within their Marie Skłodowska-Curie ETN projects (INFANS and INSPiRE-MED) are leaving at the end of December.

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.

21-166
Mikkelsen K., Phan H., Rank M.L., Hemmsen M.C., De Vos M., Kidmose P., "Sleep monitoring using ear-centered setups : Investigating the influence from electrode configurations", Technical Report 21-166, ESAT-STADIUS, KU Leuven (Leuven, Belgium), 2021. Accepted for publication in *IEEE Transactions on Biomedical Engineering* .
Lirias number: 3644098.

21-167
Brophy E., De Vos M., Boylan G., Ward T., "Multivariate generative adversarial networks and their loss functions for synthesis of multichannel ECGs", Technical Report 21-167, ESAT-STADIUS, KU Leuven (Leuven, Belgium), 2021. Accepted for publication in *IEEE Access*.
Lirias number: 3644099.

21-168

Phan H., Mikkelsen K., Chen O.Y., Koch P., Mertins A., De Vos M., "SleepTransformer : Automatic sleep staging with interpretability and uncertainty quantification", Technical Report 21-168, ESAT-STADIUS, KU Leuven (Leuven, Belgium), 2021.

21-169

Giels K., Abeele M.E.V., Verbert K., Tournoy J., De Vos M., Abeele V.V., "Detecting mild cognitive impairment via digital biomarkers of cognitive performance found in Klondike solitaire: A machine-learning study", *Digital Biomarkers*, vol. 5, no. 1, 2021, pp. 44-52.
Lirias number: 3431655.

21-170

CHen O.Y., Phan H., Cao H., Qian T., De Vos M., "Probing potential priming : Defining, quantifying, and testing the causal priming effect using the potential outcomes framework", Technical Report 21-170, ESAT-STADIUS, KU Leuven (Leuven, Belgium), 2021. Accepted for publication in *Frontiers in Psychology*.
Lirias number: 3644108.

21-171

Creagh A.P., Lipsmeier F., Lindemann M., De Vos M., "Interpretable deep learning for the remote characterisation of ambulation in multiple sclerosis using smartphones", *Scientific Reports*, vol. 11, 2021, pp. 14-301.
Lirias number: 3503361.

21-172

Hendrikx S., De Lathauwer L., "Block row Kronecker-structured linear systems with a low-rank tensor solution", Technical Report 21-172, ESAT-STADIUS, KU Leuven (Leuven, Belgium), 2021.

21-173

Ayvaz M., De Lathauwer L., "CPD-Structured Multivariate Polynomial Optimization'", Technical Report 21-173, ESAT-STADIUS, KU Leuven (Leuven, Belgium), 2021.

21-174

Zanet M., Polo E.M., Lenatti M., van Waterschoot T., Mongelli M., Barbieri R., Paglialonga A., "Evaluation of a novel speech-in-noise test for hearing screening : classification performance and transducers' characteristics", *IEEE J. Biomed. Health Informat.*, vol. 25, no. 12, Dec. 2021, pp. 4300-4307.
Lirias number: 3654922.

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