UNIVERSITÉ LIBRE DE BRUXELLES

Jean-François DETERME

Curriculum Vitae

Short CV

2021 - Present : Assistant Professor/Chargé de cours at Université libre de Bruxelles (Chair in "*Embedded electronics for smart environments*")
2020 - 2021: Postdoctoral researcher at Université libre de Bruxelles (subject: "*Multi-static radar systems*")
2018 - 2020: Postdoctoral researcher at Université libre de Bruxelles (subject: "*Development of a crowd monitoring and forecasting system*")
2013 - 2018: FNRS Research Fellow (Joint PhD at Université libre de Bruxelles and Université Catholique de Louvain) (PhD thesis title: "*Greedy algorithms for multi-channel sparse recovery*")

Education

Courses

Electronics and Instrumentation (4 credits, titular) – BA3 IR
Telecommunication signals and systems (4 credits, titular) – BA3 IR
Physics of telecommunications (4 credits, titular) – BA3 IR
Multidisciplinary project 3 (6 credits, co-titular) – BA3 IR

Scientific profile

ORCID ID: 0000-0002-4319-0866
ISI-ranked journal papers: **11** # Peer-reviewed conference papers: **4**
Citations (Scopus): **100**
h-index (Scopus): **5** h-index (Google): **6**

Five main publications

Mention impact factor (SCI) and number of citations for journal papers

Jean-François Determe, Jérôme Louveaux, Laurent Jacques, and François Horlin. "On the Noise Robustness of Simultaneous Orthogonal Matching Pursuit." IEEE Transactions on Signal Processing 65, no. 4 (2017): 864-875. (43 citations on Google Scholar, Impact Factor : 5.293)

Jean-François Determe, Utkarsh Singh, François Horlin, and Philippe De Doncker. "Forecasting Crowd Counts With Wi-Fi Systems: Univariate, Non-Seasonal Models." IEEE Transactions on Intelligent Transportation Systems (2020). (5 citations on Google Scholar, Impact Factor : 8.409)

Jean-François Determe, Jérôme Louveaux, Laurent Jacques, and François Horlin. "On the Exact Recovery Condition of Simultaneous Orthogonal Matching Pursuit." IEEE Signal Processing Letters 23, no. 1 (2016): 164-168. (30 citations on Google Scholar, Impact Factor: 3.627)

Utkarsh Singh, **Jean-François Determe**, François Horlin and Philippe De Doncker. "Crowd Forecasting Based on WiFi Sensors and LSTM Neural Networks." IEEE Transactions on Instrumentation and Measurement 69, no. 9 (2020): 6121-6131. (14 citations on Google Scholar, Impact Factor: 4.472)

Emanuele Garone, **Jean-François Determe**, and Roberto Naldi. "Generalized Traveling Salesman Problem for Carrier-Vehicle Systems." Journal of Guidance, Control, and Dynamics 37, no. 3 (2014): 766-774. (37 citations on Google Scholar, Impact Factor: 2.719)

Other scientific output and impact (only mention most relevant)

Research grants

Belgian National Science Foundation Grant—FNRS Research Fellow (2013-2017)

Awards

Best Student Presentation Award at "*6th joint WIC/IEEE SP Symposium on Information Theory and Signal Processing in the Benelux*" (2016)

Peer review

Reviewer for *IEEE Transactions on Signal Processing*, *IEEE Signal Processing Letters* and *Signal Processing* (Elsevier).

Valorization experience and industrial collaboration

Spinoff companies and technology licensing

Technology transfer experience regarding crowd monitoring and crowd count forecasting technologies