

Inria

Getting Research Funding

Davide Frey

Good Research Needs Funding



Good Research Needs Funding

Award for Michel Raynal

 Florestan De Moor  2019/10/18  Conference, News  Edit



During the SRDS 2019 conference which took place in Lyon, France, from October Raynal received Career Award to distributed

algorithms.

[CONTINUE READING](#)

Paper Accepted at INFOCOM 2021: shadow banning practices in Twitter

 Erwan LE MERRER  2021/01/28  Uncategorized  Edit

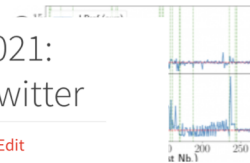


Our paper, in collaboration with IRIT/ENSHEEIT and LAAS/CNRS, has been accepted to the 2021 IEEE International Conference on Computer Communications (INFOCOM), one of the flagship

conferences in networking. It is entitled "Setting the Record Straighter on Shadow Banning", and deals with the user-side observation of the (black-box) moderation algorithm of...

Best Paper Award at Middleware 2020

 Francois TAIANI  2020/12/14  Uncategorized  Edit



The paper Online Federated Learning via Staleness Awareness and Performance Prediction. Georgios Damaskinos, Rachid Guerraoui, Anne-Marie Kermarrec, Vlad Nitu, Rhicheek

Li (10.1145/3423211.3425685). (hal-03043237) has been awarded the Best Paper Award at the 2020 ACM/IFP International Conference on Middleware, the premier event for the discussion of recent scientific...

3 papers accepted at Middleware 2020

 Francois TAIANI  2020/12/14  Uncategorized  Edit

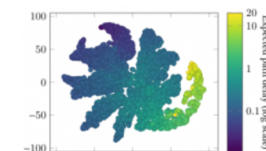


The WIDE team proudly presented three papers at Middleware 2020, the ACM/IFIP International Conference on Middleware. Congratulations to Erwan, Georgios and Loïck, and for their respective

successes! Georgios Damaskinos, Rachid Guerraoui, Anne-Marie Kermarrec, Vlad Nitu, Rhicheek Patra, François Taïani. FLEET: Online Federated Learning via Staleness Awareness and Performance Prediction. (10.1145/3423211.3425685)....

Loïck Bonniot wins 1st place at the ITU Graph Neural Networking Challenge 2020

 Francois TAIANI  2020/12/01  Uncategorized  Edit



Loïck Bonniot from WIDE, and his team 'Stereog' have won 1st place at the Graph Neural Networking Challenge 2020, organized as part of the AI/ML in 5G Challenge of ITU

(the International Telecommunication Union), a specialized agency of the United Nations responsible for all matters related to information and communication...

How to get Funding



fewer funds

more funds

easier to get

hard to get



How to get Funding

- A project idea
- Some Research Partners
- A convincing proposal
- The Lab will Support You

Mainly Two Types of Projects

- Open Calls (projets Blancs)
 - ANR
 - Cominlabs
 - Some EU sub-programs
- Thematic Calls
 - Most of EU's Horizon Europe

Horizon Europe



Horizon Europe

Opportunities for Innovative SMEs in Horizon Europe

Horizon Europe - Pillar 2

Cluster 1 - Health

1. Staying healthy
2. Living & working in a health-promoting environment
3. Tackling diseases & reducing disease burden
4. Innovative, sustainable and high-quality health care
5. Unlocking the full potential of new tools, technologies and digital solutions for a healthy society
6. Maintaining an innovative, sustainable & globally competitive health industry

Cluster 2 - Culture, Creativity and Inclusive Society

1. Democracy and Governance
2. European Cultural Heritage and the Cultural and Creative Industries
3. Social and Economic transformations

Cluster 3 - Civil security for Society

1. Better protect the EU and its citizens against Crime and Terrorism
2. Effective management of EU external borders
3. Protected infrastructure
4. Increased Cybersecurity
5. A Disaster-Resilient Society for Europe
6. SSRI (Strengthened Security Research and Innovation)

Cluster 4 - Digital, Industry and Space

1. Climate neutral, circular and digitised production
2. increased autonomy in key strategic value chains for resilient industry
3. world leading data and computing technologies
4. digital and emerging technologies for competitiveness and fit for the green deal
5. open strategic autonomy in developing, deploying and using global space-based infrastructures, services, applications and data
6. a human-centred and ethical development of digital and industrial technologies

Cluster 5 - Climate, Energy and Mobility

1. Climate sciences and responses
2. Cross-sectoral solutions for the climate transition
3. Sustainable, secure and competitive energy supply -2021-2024
4. Efficient, sustainable and inclusive energy use
5. Clean and competitive solutions for all transport mode
6. Safe, Resilient Transport and Smart Mobility services for passengers and goods

Cluster 6 - Food, Bioeconomy, Natural Resources, Agriculture and Environment

1. Biodiversity and Ecosystem Services
2. Fair, healthy and environmentally-friendly food systems from primary production to consumption
3. Circular economy and bioeconomy sectors
4. Clean environment and zero pollution
5. Land, oceans and water for climate action
6. Resilient, inclusive, healthy and green rural, coastal and urban communities
7. Innovative governance, environmental observations and digital solutions in support of the Green Deal

info@efmc.eu / <https://efmc.eu>

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What is Funded

- RIA - Research and Innovation Actions
 - You can coordinate
 - (and it's probably a good thing)
 - TRL 2 -5
 - TRL 3 = proof of concept
 - TRL 5 – validation in relevant environment
- IA - Innovation Actions
 - you can hopefully do some research
 - You should not coordinate
 - TRL 6- 8
 - TRL 6=demo in relevant environment
 - TRL 8= System Complete and Qualified

How to Find Topics

- Work Program for Cluster 4
 - https://ec.europa.eu/info/funding-tenders/opportunities/docs/2021-2027/horizon/wp-call/2021-2022/wp-7-digital-industry-and-space_horizon-2021-2022_en.pdf

Programming tools for decentralised intelligence and swarms

- <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/horizon-cl4-2022-data-01-03>
- Develop agile and secure architectures, dynamic programming environments and tools for the compute continuum from the device and edge perspective, including energy-efficient, lightweight AI-based approaches, tools for decentralised device and edge intelligence, innovative mesh architectures with mixed topologies to support concepts like tactile internet and swarm intelligence.

Future European platforms for the Edge: Meta Operating Systems

- <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/horizon-cl4-2021-data-01-05>
- Europe needs to strengthen its supply and value chains in cloud to edge computing by integrating relevant elements of computing, connectivity, IoT, AI and cybersecurity. Exploiting network functions such as adhoc - cloud/fog communication not limited to 5G , the objective is to develop meta operating systems for the edge that enable cloud and edge computing orchestrations by bringing computation, data and intelligence closer to where the data is produced (sensors and devices) and by which volume, variety, interoperability, and velocity should be handled efficiently and securely. This will make AI training and inference at the edge viable and lead to a next generation of internet-enabled automation concepts virtualizing computing and networking functions, multi-state analytics and digital twinning of underlying objects to improve end-to-end response time, to optimise the CO2 footprint and benefit from the use of renewable energy sources. Validation should be done through proof of concept or prototype implementations for at least 3 different applications in domains such as mobility, logistics, manufacturing, energy and other utilities, buildings or farming.

Internet architecture and decentralised technologies (RIA)

- <https://ec.europa.eu/info/funding-tenders/opportunities/portal/screen/opportunities/topic-details/horizon-cl4-2022-human-01-03>
 - To review and upgrade the open Internet architecture (hardware, software, protocols) to increase the performance of the network, adapt it to new application requirements, improve quality of service, make it more resilient to security threats, more energy efficient and respectful of the environment (e.g. reparability, recyclability), and increasingly supportive of open and decentralised technologies and services.
 - Address the current limitations of decentralised technologies, such as Blockchain and DLT, including those related to scalability, interoperability, energy efficiency, privacy or security, in order to make them dependable building blocks of the future Internet. This research area will explore DLT-based solutions, enabling the exploitation of data coming from a high number and various types of sources, eliminating data silos through decentralised and interoperable approaches, while helping individuals and organisations better govern their data when they participate in joint value chains where cooperating partners can also be competitors. Such solutions should ensure a high level of trust concerning data provenance and authentication with (real-time) traceability, data integrity, data exploitation as well as data protection and privacy when it relates to individuals.

Tasks for next 60 mins

- First 30 minutes (work in groups)
 - Read call topic (see link in slides)
 - Come up with some ideas on what WIDE could propose
 - no commitment
 - but feel free to come up with a proposal in a few months
 - Prepare a few slides
- Final 30 minutes before lunch
 - 10 minutes per group
 - present your slides

Groups

- Programming tools for decentralised intelligence and swarms
 - François
 - Michel
 - Arthur
- Future European platforms for the Edge: Meta Operating Systems
 - Djob
 - Matthieu S.
 - Erwan
 - Costantino
- Internet architecture and decentralised technologies (RIA)
 - Mathieu G.
 - Davide
 - George
 - Alex