Annual Report 2022
Activity Report

Vietsch Foundation

Postal Address: c/o Broekweg 125, 3131HD Vlaardingen, The Netherlands
Tax Identification Number (RSIN): 853821690
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This Annual Report covers the activities of the Vietsch Foundation from 1 January until 31 December 2022.

The Vietsch Foundation fulfills its goal of supporting research and development of advanced Internet technology for scientific research and higher education in two ways.

1. By contributing funding to specific research and development projects that demonstrate potential value to progress European and global research and education networking
2. By awarding an annual medal of honour to people who contributed to the development of a service, technology or approach that will be of lasting value to the research and education networking community and its users.

The Board of Trustees

The Board of Trustees of the Vietsch Foundation is responsible for the direction of the Foundation and the management of its assets. In 2022 the Board was composed of the following members:

- Valentino Cavalli, Chair
- John Dyer, Secretary
- Antoinette Vietsch, Treasurer
- Andrew Cormack, Member at large
- Kathleen Shearer, Member at large
- Pekka Kähkipuro, Member at large.

In 2022 the Board of Trustees met on the following dates:
- meeting # 44, 04-03-2022
- meeting # 45, 01-07-2022
- meeting # 46, 30-09-2022
- meeting # 47, 16-12-2022

Project funding

In 2022 the Vietsch Foundation concerned itself with the following projects.

- **AALD.** The project on Academic Achievement and Learning Diaries, aimed to increase the scientific understanding of students’ epistemic thinking related to learning analytics applications. It published two scientific open access articles, a public web page describing the structured diary tool contents, and main findings summary of the project. In addition, a public presentation was given as part of a relevant conference. The grant for this project was €8,000.00. The project ended in 2022.
• **URAN Vietsch Foundation Project.** In April 2022 the trustees accepted a proposal from GÉANT to fund a project to support URAN, the Ukrainian Research and Academic Network, to survive the war in Ukraine, to maintain their human capital and operations where it is safe and to rebuild as soon as that is possible. An MOU between GÉANT, URAN and the Vietsch Foundation to support the project was established. As part of the agreement, GÉANT encourages its member NRENs to donate money to the Vietsch Foundations which is being earmarked for this project. The Vietsch Foundation release the grant on request based on specific requests for donations by URAN. The project was still ongoing at the end of 2022.

• **Open Source Law Publication.** The second edition of “Free and Open Source: Law, policy and practice” edited by Amanda Brock, has been published by Oxford University Press, as an “open access title” with pdf, html and e-reader freely available on an attribution basis. The Vietsch Foundation provided a total grant of £20,000.00 for AUP and printouts. The project ended in 2022.

• **EduDNS.** The eduDNS project provided a universal, vendor-independent Dynamic DNS support for research and education users. eduDNS simplifies the deployment of services that are dynamically deployed in Cloud infrastructures. It removes the obstacles of changing IP addresses of services in Cloud at every deployment and enables obtaining SSL certificates for the hostnames. Service providers can migrate services from local servers to Cloud or from a Cloud site to another without noticing users from the change. The total project grant was €30,000.00. The project started and ended in 2022.

• **MARLIN.** The project developed a novel way to access local resources using secure authentication and authorization mechanisms, together with the ability to acknowledge the user’s identity, using biometric data though smart devices, which most of the users carry in their pockets on a daily basis. The total project grant was €30,000.00. The project started and ended in 2022.

• **ADDITIONAL (AI classification of network traffic).** The project aims at applying advanced Deep Learning methods to support two critical tasks in managing modern networks: 1) traffic classification (i.e., associating observed traffic with the application that generated it) and 2) fine-grained prediction (i.e., forecasting traffic behavior, knowing the kind of application generating it). The total project grant is €30,000.00. The project started in December 2022.

• **Expanding the EMREX Network to EU and beyond.** The project aimed to facilitate student mobility and to decrease the administrative burden of student exchanges for institutions. It’s built on EMREX, a technical solution and an international network, which are available in several European countries. The grant allocated to this project was €30,000.00. The project ended in 2022.

Further details of these projects can be found on the Vietsch Foundation website, [www.vietsch-foundation.org](http://www.vietsch-foundation.org)

**Medal of Honour 2022**
The 2022 medal of the Vietsch Foundation was awarded to Natalia Manola, Chief Executive Officer of OpenAIRE. The medal was presented to the winner on the 14th of June during a ceremony at the TNC 2022 conference.