

Marie Skłodowska-Curie Actions

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**PLATON - Platform-aware LArge-scale Time-Series
prOcessiNg**



Deliverables of WP6 of PLATON

D6.1: Entrepreneurship and Management Seminars

D6.2: Teaching of a Data Series Seminar

D6.3: Supervision of a PhD Student

D6.4: Attendance of courses to improve French Language

D6.5: Delivery of Tutorials and Talks

Edited by Panagiota Fatourou

September 2022

D6.1 Entrepreneurship and Management Seminars

P. Fatourou has attended the following seminar on entrepreneurship and innovation:

- Marios D. Dikaiakos (University of Cyprus). “Silicon Valley and Beyond: Innovation and Academia,” seminar taken place at LIPADE, Université Paris Cité, May 2022.

P. Fatourou has also subscribed to the following online seminars and talks, organized by the Knowledge Transfer Office of the University of Crete in collaboration with [TECHNIS](#) and the [TIME Master's in Business Economics](#).

- **Phoebe Li**, Sussex Law School: “*Intellectual property duties and innovation*”, May 10, 2022.
- “**Use of Innovation and Knowledge in R&D Intensive Firms**”, March-April 2022.

More details about the seminar are provided below:

- **Seminar 1:** Defining technology and innovation, Why is innovation important for firms?, The innovation process, Types of innovation and knowledge
- **Seminar 2:** Industry dynamics, Isomorphism, Exploration vs exploitation, Firm survival, Managerial Innovation Tools
- **Seminar 3:** BCG, Appropriability, Complementary assets
- **Seminar 4:** Open innovation, Internal and external knowledge, Benefits and costs of external knowledge sourcing
- **Seminar 5:** Absorptive capacity, Knowledge flows, Technological distance (unfamiliarity), Clusters, Searching for innovation opportunities, A primer on Artificial Intelligence

During the project, P. Fatourou has attended sessions for improving her management skills.

D6.2 Teaching of a Data Series Seminar at LIPADE

P. Fatourou has taught the following data series seminar in the context of the “Big Data” course at LIPADE, Université Paris Cité:

- P. Fatourou, “Parallel Data Series Indexing and Similarity Search on Modern Hardware”, March-April, 2022.

Deliverable D6.3: Supervision of Students

During the project, P. Fatourou has co-supervised with Prof. Themis Palpanas, Khadidja Meguelati, who is a PhD student at LIPADE, Université Paris Cité. They worked on parallel in-memory similarity search for large-scale seismic signals (in collaboration with Pierre Gaillard, French Alternative Energies and Atomic Energy Commission - CEA, who was a member of the advisory board of the project).

P. Fatourou has also co-supervised (together with Prof. Palpanas) three undergraduate students:

- Manos Chatzakakis
- George Paterakis
- Konstantinos Chatzinikolaou

Deliverable D6.4: Presentations in the diNo reading group

P. Fatourou has given the following presentations at the diNo seminar¹.

- Thursday, March 24, 2022. *diNo seminar, Prof Panagiota Fatourou: Fault-Tolerant Data Structures in Settings with Non-Volatile Main Memory (Part 1)*
- Thursday, April 7, 2022. *diNo seminar, Prof Panagiota Fatourou: Fault-Tolerant Data Structures in Settings with Non-Volatile Main Memory (Part 2)*

The first of these talks has also been given in the context of the University of Paris Seminar Series on Data Analytics², which are organized in collaboration with [diiP](#) and the [diNo](#) group:

- "[Fault-Tolerant Data Structures in Settings with Non-Volatile Main Memory](#)", Prof. Panagiota Fatourou, Universite Paris Cite (France) & FORTH (Greece), 24 March 2022.

M. Chatzakis, one of the students who was working on a research project related to the work of PLATON (under the co-supervision of P. Fatourou and Prof. Themis Palpanas), has given the following presentation at the diNo seminar:

- Thursday, November 4, 2021. Manos Chatzakis: Distributed iSAX Indices: the DPiSAX Family

P. Fatourou has attended the following talks that have been given in the context of the diNo seminar:

- October 28, 2021. Themis Palpanas, How to Do Good Research, Get it Published and Get it Cited
- November 18, 2022. Wissam Maamar Kouadri: Semantic Based Approaches to Enhance Sentiment Analysis Quality
- November 25, 2021. Qitong Wang: Learned Cardinality Estimation for Similarity Queries
- December 2, 2021. Sabiha Tahrat: Data inconsistency detection and repair over temporal knowledge bases
- December 16, 2021. Dr Khodor Hammoud: Trust in Online Data: Privacy inText, and Semantic-Based AuthorVerification in Micro-Messages
- February 3, 2022. Qitong Wang, METRO: A Generic Graph Neural Network Framework for Multivariate Time Series Forecasting
- February 10, 2022. Ilias Azizi, HVS: Hierarchical Graph Structure for Approximate Nearest Neighbor Search
- February 17, 2022. Paul Boniol, Explainable Anomaly Detection on High-Dimensional Time Series Data
- February 24, 2022. Shen Liang: Multi-Source Deep Domain Adaptation with Weak Supervision for Time-Series Sensor Data
- March 17, 2022. Mohamed Bouadi: Neural Feature Search: A Neural Architecture for Automated Feature Engineering
- April 21, 2022. Prof Zoi Kapoula: Innovations for neurofunctional evaluation and training of binocular eye movements in dyslexia and vertigo
- April 28, 2022. Ilias Azizi: ELPIS: Large-Scale Indexing of High Dimensional Data
- May 5, 2022. Sijie Dong: Quality-Aware Query Processing Over Very Large Datasets
- May 12, 2022. Alae Eddine El Hmimdi: Fast Fourier Convolution
- May 19, 2022. Adrien Petralia: A Transformer-based Framework for Multivariate Time Series Representation Learning
- June 2, 2022. Qitong Wang: Mothernets:: Rapid Deep Ensemble Learning

¹ <http://dino.mi.parisdescartes.fr/#seminars>

² <https://helios2.mi.parisdescartes.fr/~themisp/seminars/seminars.html>

- June 23, 2022. Paul Boniol: More or Less: When and How to Build Convolutional Neural Network Ensembles
- June 30, 2022. Alexandra Levchenko: Cosine: A Cloud-Cost Optimized Self-Designing Key-Value Storage Engine

Deliverable D6.5: French courses

P. Fatourou has taken courses throughout the duration of PLATON on the French language. She managed to complete levels A1 and A2. Specifically, she has partially attended a course on the French language at Université Paris Cité, which was given when she arrived in Paris. To further improve her knowledge, she also attended courses at Alliance Francaise (7 modules/classes) which allowed her to complete level A2.

Deliverable D6.5: Tutorials and Talks

P. Fatourou has delivered the following tutorials and talks in the context of the project:

- P. Fatourou, “Fault-Tolerant Data Structures in Settings with Non-Volatile Main Memory,” Huawei Research, Edinburgh, September 22, 2022.
- P. Fatourou, “Highly-Efficient Data Series Processing on Modern Computing Platforms,” University of Cergy Pontoise, Department of Computer Science, June 24, 2022.
- P. Fatourou, “Recoverable Data Structures for Non-Volatile Memory Settings,” Celebration of the 60th birthday of Hagit Attiya, Technion, June 21, 2022.
- P. Fatourou, “Parallel and Distributed Computing for Processing Big Data and for Emerging Technology Settings,” University of Crete, Department of Computer Science (in the context of CS500), Greece, April 2022.
- P. Fatourou, “Highly-Efficient Data Series Processing on Modern Computing Platforms,” CentraleSupélec, Université Paris-Saclay, March 22, 2022.
- P. Fatourou, “Recoverable Data Structures,” Laboratoire d’Informatique de Paris 6, Sorbonne Université, February 16, 2022.
- P. Fatourou, “Parallel Data Series Indexing and Similarity Search on Modern Hardware,” Department of Computer Engineering & Informatics, University of Patras, January 14, 2022.
- P. Fatourou, “Recoverable Data Structures,” Technical National University of Athens, December 2021.

Talks to the public

- P. Fatourou, “Η Επιστήμη και η Επιστήμη των Υπολογιστών,” Science is Wonderful!, European Commission, November 2022.
- P. Fatourou, “Η Επιστήμη και η Επιστήμη των Υπολογιστών,” Chat Lab, Talk to the Researchers. Online talks to pupils of Greek Junior and Senior High Schools, September – October 2022 (5 talks).

Participation in Conferences, Workshops and Summits

- 35th International Symposium on Distributed Computing (DISC’21), October 2021. P. Fatourou co-authored a paper that was presented in the conference.
- 27th ACM SIGPLAN Symposium on Principles and Practice of Parallel Programming (PPoPP’22), April 2022. P. Fatourou co-authored two papers that were presented in the conference (one of which has won a BEST PAPER AWARD).

- 41st ACM Symposium on Principles of Distributed Computing (PODC), July 25-29, 2022, Salerno, Italy. P. Fatourou co-authored a paper that was presented in the conference.
- 4th Summit on Gender Equality in Computing (GEC'22), Thessaloniki, Greece, June 2022. P. Fatourou co-authored two posters that were presented during the poster session. Moreover, she organized and chaired a mentoring workshop during the event and she gave the opening and the closing talks.
- 13th Annual Non-Volatile Memories Workshop (NVMW'22), University of California, San Diego, May 16, 2022 (participation in the virtual programme). P. Fatourou co-authored a paper that was presented in the conference.
- 11th International Conference on Fun with Algorithms (FUN'22), Island of Favignana, Trapani, Sicily, Italy, May 2022. P. Fatourou was a member of the Programme Committee of the conference.
- 41st International Symposium on Reliable Distributed Systems (SRDS'22), Vienna, Austria, September 19-22, 2022. P. Fatourou was a member of the Programme Committee of the conference.
- 48th International Conference on Very Large Databases Sydney, Australia (and hybrid) - September 05-09, 2022. This is one of the top-tier conferences where Prof. Palpanas publish papers at a regular basis. P. Fatourou attended (parts of) the conference for training reasons.