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FIIF Newsletter 4/2022

Do you want to learn more about Robot Operating System?

In this newsletter you can find information about FAMN ecosystem's activities (**Data Accelerator** and **Machine Learning Academy**) and this fall's FIIF events. We will start with a view to **Robot Operating System** (ROS) on September 22, 2022 in Tampere. The next event focuses on **OPC-UA** and it takes place on November 3, 2022 in Helsinki. This fall's last FIIF event will be about **International Data Spaces** (IDS) and it will be organized in early December. Regular visits to the Events section in FIIF's web pages will help you stay on board and well informed!
The next FIIF Newsletter will be published **in October**.
Stay tuned!

Risto Lehtinen

FIIF Manager
DIMECC Oy
tel. +358 50 5553900
e-mail fiif.manager@dimecc.com

FAMN: Data Accelerator 2022 helps manufacturing SMEs leverage data to grow their business

The Finnish Advanced Manufacturing Network (FAMN), in cooperation with Technology Industries of Finland and Silo AI, will implement **a data accelerator for SMEs**. The accelerator utilizes tried and tested data economy models, and its aim is to help manufacturing SMEs use data to grow their businesses.
We are primarily looking for organizations that **already have some idea about the use of data and artificial intelligence** and understand their potential for business development. Participating organizations must also have the desire to develop their capabilities in bringing data projects into production through peer support and sparring.
Together with top AI and data experts, participating companies will have the opportunity to develop a way for using data, creating a view of the business, and helping the company accelerate the use of digitalization. Data mapping provides a basis for streamlining operations with AI-based analysis and optimization tools. In addition, good data capabilities increase the value of the company as a valuable business partner and are a prerequisite for the company's future competitiveness.
The first data accelerator was implemented in 2021 and it collected excellent feedback from participants. Silo AI has been chosen as the supplier for the accelerator in 2022. Silo AI's experts have first-hand experience of data projects in SMEs.
Data accelerator 2022 implementation principles:
-    Data accelerator 2022 will be implemented **during October-December 2022** and it will accommodate **10 SMEs**.
-    The working method of the accelerator is **workshops and peer-to-peer learning** between companies. Silo AI's experts are responsible for facilitating the workshops.
-    The lessons from data accelerator 2022 will be documented and shared – respecting confidential information and trade secrets – for use by others as **an industrial data playbook**. You can find the 2021 playbook here (in Finnish only).
Got interested? Please contact:
-    Antti Karjaluoto, e-mail antti.karjaluoto@dimecc.com, tel. +358 40 7725440
-    Kari Muranen, e-mail kari.muranen@dimecc.com, tel. +358 40 7725934

Read more

FAMN: Machine Learning Academy 2022 starts in October

Machine Learning Academy (MLA) is aimed for professionals working in the industry. It includes diverse learning modules from ML algorithms to ethics, and from designing and managing artificial intelligence (AI) projects to implementing AI in the company business. The goal of the training is to increase the participants' understanding of **how to utilize AI and machine learning in their company**. After the course, participants will have understanding of the fundamentals of Machine Learning, as well as the ability to recognize and manage development tasks that aim to benefit from Machine Learning.

MLA will be done in co-operation with Futurice Oy. There will be six (6) full-day workshops (from 9:30 to 16:30), which will be held in Tampere or in the Helsinki area. The estimated effort required from the participants is 35 hours of training + time spent with own project work. Workshop dates are the following:

- Workshop #1 (AI Crash course): **Tuesday, October 11, 2022**
- Workshop #2 (Supervised Learning): **Thursday, October 27, 2022**
- Workshop #3 (Data & Ethics and legislation): **Thursday, November 2, 2022**
- Workshop #4 (Unsupervised learning and deep Learning): **Tuesday, November 15, 2022**
- Workshop #5 (How to do ML Projects): **Tuesday, November 22, 2022**
- Workshop #6 (Project work presentations): **Tuesday, December 13, 2022** (at Futurice premises in Helsinki)

More information is available on MLA web page. Most of the available 30 seats are already taken, but there are still a few seats for quick movers. The price is 4 000 € (VAT 0 %) per seat.

Got interested? Please contact:

- Antti Karjaluoto, e-mail antti.karjaluoto@dimecc.com, tel. +358 40 7725440
- Kari Muranen, e-mail kari.muranen@dimecc.com, tel. +358 40 7725934

Read more

FIIF Event: Robot Operating System (Thursday, September 22, 2022 at 9:00-12:30 in Tampere and online)

The Robot Operating System (ROS) is a set of open-source software libraries for building robotic and AGV applications. ROS offers to developers across industries a standard software platform that will carry them from research and prototyping all the way through to deployment and production. This seminar gives information about Finnish and international ROS success stories and future development visions. The seminar is organized in co-operation with FIMA and Robocoast EDIH.

Preliminary Program:

ROS as an enabler – from Finnish center of excellence to global field and service robotics markets / **Mika Vainio**, GIM Robotics
Case Mitsubishi Logisnext AGVs: ROS in perception-based local navigation / **Anna-Kaisa Repo**, Mitsubishi Logisnext Europe
ROS in Finnish robotics: Solteq Robotics use cases / **Timo Kupsa**, Solteq Robotics
ROS experiences in education and research / **Toni Aaltonen**, Satakunta UAS
ROS utilisation as a component in AGV applications / **Jouni Sievilä**, Navitec Systems

The event is organized at Platform6 (Åkerlundinkatu 8, Tampere) and online. More information on the event web page. Registration via this link.

FIIF Event: OPC-UA (Thursday, November 3, 2022 at 9:00-12:30 in Helsinki and online)

Interoperability and effective exchange of data is of increasing importance in modern industrial automation. OPC (Open Platform Communications by the OPC Foundation) is an interoperability standard for secure and reliable exchange of data in the industrial automation space and in other industries. It is platform independent and ensures seamless flow of information among devices from multiple vendors. OPC-UA (OPC United Architecture) is a collection of technologies that ensure a secure transfer of standardized information from the sensor to the cloud.

This seminar gives information both on current OPC-UA usage and future development trends. The seminar is organized in co-operation with Suomen Automaatioseura.

The event is organized at Tapahtumatalo Bank (Unioninkatu 20, 00130 Helsinki) and online. More information on the event web page. Registration via this link.

Related event

OPC Day Finland "OPC UA extends to field and cloud" (online event on November 29, 2022).
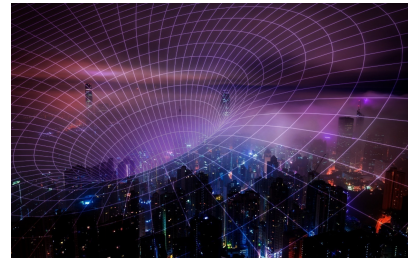

FIIF Event: IDS (in December 2022)

Trustworthy sharing of confidential data is becoming a reality. IDS (International Data Spaces) is a European data space initiative that aims at realizing the vision of future data economy and creating a global standard for data exchange across organizations and sectors. In this seminar, this topic will be explored from multiple perspectives. The presentations will answer the following questions:

- How IDS is being coordinated and how to get involved?
- What are its main principles and buildings blocks?
- Are there already existing success stories on applying IDS?
- What kind of experiences companies have from Finnish IDS use cases?

More information will be provided in FIIF Newsletters and the event web page.

PoDoCo Autumn 2022 application round opens soon

The autumn grant application round for the PoDoCo program is open from **September 15 to October 31**, 2022. This program is open to any company, regardless of industry, and to any person who has recently completed or will soon be submitting a Doctoral dissertation. The PoDoCo program, led by DIMECC Oy, is funded by the Jenny and Antti Wihuri Foundation, Maa- ja vesitekniikan tuki ry, Svenska Kulturfonden, Svenska litteratursällskapet i Finland, Tekniikan edistämissäätiö, KAUTE Foundation and Liikesivistysrahasto investing every year in total about one million euros in the program.

More information about the program is available on PoDoCo website and from PoDoCo events (PoDoCo Webinars and Application Clinics). Note! If you would like to hire a postdoc, contact us soon and you will receive free marketing opportunities in the coming PoDoCo events.

Contact at DIMECC Oy: Dr. Seppo Tikkanen (e-mail: seppo.tikkanen@dimecc.com, tel. +358 40 8402780)

Upcoming FCAI Events

Finnish Center for Artificial Intelligence FCAI is a community of experts that brings together top talents in academia, industry and the public sector to solve real-life problems using both existing and novel AI.

Wednesday, September 14, 2022 at 13:30-15:00
Critical AI & Crisis Interrogatives (CRAI-CIS) Seminar: Imagining communities with "intelligent" machines (Associate Professor Katja Valaskivi)
Hybrid event at Aalto University (T6 A136, Computer Science Building) and online (Zoom)
Link to event web page.

> The CRAI-CIS Seminars engage emerging work across critical AI, Human Computer Interaction (HCI), participatory design, and crisis-related research. The seminars seek to invoke dialogues on how computational, human-centred, and social sciences perspectives can offer new insights and methods for inclusive approaches and critical inquiry with societal impact.

Thursday, September 15, 2022 at 13:00-20:00
Data, AI and Public Sector Governance
Virtual conference
Link to event web page.

> The conference brings together researchers, public sector authorities and experts in the field of data and AI. The idea of the conference is to open up avenues for sharing research-based accounts on how to develop responsible public sector governance in the digital era, distribute good practices and give sparks for developing and discussing administrative practices in a localizable way. The focus of the conference is on possibilities and challenges of developing and utilising AI systems and large data sets for public governance. Conference is arranged by DataLit, University of Helsinki and FCAI in partnership with UNITAR, and together with prominent researchers and research groups from Finland.

Wednesday, November 16, 2022 at 9:00-18:00
AI Day 2022
Dipoli, Aalto University, Espoo
Link to event web page.

> AI Day is the biggest annual event highlighting the leading AI research in Finland. The event brings together researchers, companies, students and the public sector involved in the fast-developing field of AI. AI Day promotes matchmaking, information sharing, and cross-border collaboration. The AI Day program features keynotes, matchmaking opportunities and an extensive scientific program including presentations, posters and demos. The call for presentations and posters is organized by the Finnish Artificial Intelligence Society (FAIS).

Save the date for DIMECC's Annual Seminar (Wednesday, November 23, 2022 at Nokia Executive Experience Center, Espoo)

The theme of DIMECC's 15th annual Seminar is "Connected Safe Industry". It is organized in co-operation with Business Finland and Nokia. More information and registration will be provided soon on the event web page.

Save the date: Manufacturing Performance Days June 6-7 2023!

Manufacturing Performance Days (MPD) is an international top-level B2B summit. This executive and visionary industrial renewal summit will bring together manufacturing industries, researchers as well as technology and service providers from all around the world to meet and exchange views. MPD 2023 will offer views of top class invited speakers from leading industry and academia on latest trends and achievements.
Manufacturing Performance Days 2023 is the 8th consecutive event and it will be held during **June 6-7, 2023 at Tampere Hall, Finland**. The previous MPD was organized in 2019. More info available here.
If you are or your organisation is interested in MPD partnership, please contact MPD Co-Chair Dr. **Harri Kulmala** (e-mail: harri.kulmala(at)dimecc.com, tel. +358 40 840 6380).

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