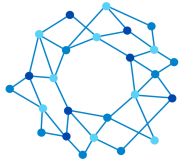


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**FINNISH  
INDUSTRIAL  
INTERNET  
FORUM**

FIIF Newsletter 8/2019

**DIMECC**



## FIIF Event on "AI/ML – Predictive Maintenance" (November 28, 2019)

FIIF organized this seminar in co-operation with the **AI Morning** event [AI-Aamu](#) at Tampere University's Hervanta Kampus. Full house with over 120 registered participants indicated that artificial intelligence applications currently interest both industry companies and academia.

Seminar program consisted of nine high-quality, invited presentations. All presentations, including presenters' contact information, are now available for members at [FIIF web site](#).

**Antti Löytynoja** from [Mathworks](#) started with "*End-to-end algorithm development for Predictive Maintenance*". Antti illustrated with concrete industrial examples the overall workflow in developing predictive maintenance solutions. He emphasized among other things opportunities to utilize digital twins or simulation models to generate missing failure data.

**Anssi Collin** from [CombiEnt](#) told next that predictive maintenance applications are an important driver on CombiEnt's artificial intelligence agenda. CombiEnt is the leading cross-industry collaboration network in the Nordics consisting of 30 of the largest companies in Sweden and Finland. Anssi's final comment was that they currently have four open data scientist positions within CombiEnt.

**Janne-Pekka Karttunen** from [Distence](#) talked about their recent progress in several important industrial applications. His presentation was titled "*Combining AI and edge computing for industrial maintenance*". **Miika Valtonen** illustrated with several industrial applications how [Remion's](#) Regatta IoT-platform accelerates predictive maintenance development. One interesting highlight in Miika's presentation was their recent successful co-operation with Konecranes in crane monitoring.

**Henri Kivioja** from [LempeaEdge](#) told that their mission is to "provide data consumability for every industry". Henri illustrated with several examples and demonstrations that their new RAIN platform makes "immediate data consumption a reality". **Jari Toivanen** from [Treon](#) focused on wireless condition monitoring in high volume applications. **Hannu Pakkala** from [Steamlane](#) looked at industrial visions from a higher perspective with his inspiring presentation "*Future trends in predictive maintenance and the role of AI*". **Krishna Murti** from [Tampere University](#) reported on recent academic research with his presentation "*OPENS – Analytics of industrial systems*". **Jyrki Keskinen** from [Wapice](#) closed the intense half-day seminar with the lecture "*How use IoT to deliver the world's most advanced industrial predictive maintenance services*".

*Program Manager Arto Peltomaa, DIMECC Oy*

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## Planned FIIF activities for the first half of 2020

FIIF Advisory Board has reviewed and approved preliminary plan for FIIF's activities during spring of 2020. We are planning to organize **at least four general FIIF events**. These events are open and free of charge to employees of all FIIF members. Preliminary topics and dates of these events have already been set (see section "Sneak preview to FIIF events during spring of 2020" below).

Based on very positive experiences from this year's events, most of these events will be organized with partners, starting with IBM and the Finnish Software and e-Business Association (on February 13, 2020 and March 19, 2020) and continuing with Taival Advisory, Tampere University of Applied Sciences, and KOTEL later during the spring. For FIIF, the main motivators for organizing events with partners are to widen the expertise base, to increase the participants' networking opportunities and to introduce FIIF's network, expertise, and activities to new industries and stakeholders.

**FIIF Newsletter** will be published four times this spring: in January, March, April, and June. If you have material that you would like to be included in the FIIF Newsletter or otherwise distributed to the FIIF community members, please contact the [FIIF Manager](#). Remember also to leverage FIIF's [Networking Opportunity](#) to spread the word about your company's services and offerings.

This spring we will again run the **member survey** to collect from the members comments, feedback and ideas for upcoming FIIF events and activities and to ensure that members' needs and expectations are met. The format will, however, be lighter than in 2018 and 2019.

DIMECC will invoice **FIIF's annual service fee for 2020** in March. Service fees will stay the same as they were in 2019.

Partnership type	Service fee 2020
Large industry partners (companies with annual revenue over €300 million)	€3000
Midcap industry partners (companies with annual revenue of €50-300 million)	€2000
SME industry partners (companies with annual revenue of €2-50 million)	€500
Micro industry partners (Companies with annual revenue under €2 million)	€150
Non-Profit partners (Federations, associations, trade unions, and companies registered as tax exempt organizations)	€150
Academic partners (Universities and their separate research organizations, and VTT)	€0
Public Sector partners (Finnish ministries and government agencies)	€0

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## Sneak preview to FIIF events during Spring of 2020

For most of the events the exact dates are not yet set, but we will inform you in Newsletters and Alerts about the dates as they are decided. You can also find the latest status and more information about

these events on FIIF's web site.

If you prefer to participate in FIIF events online, please select that option when registering to the events. We will then send the participation link to you in e-mail before the event.

**FIIF event on industrial process optimization: "Bit by bit – improving competitiveness through industrial process optimization"** (February 13, 2020 & March 19, 2020).

This series of two events will be arranged in co-operation with IBM Oy and the Finnish Software and e-Business Association (<https://www.ohjelmistoebusiness.fi/en/>). The common theme in both of these events is that companies can improve their competitiveness and profitability not only through business model innovation, but also through more traditional ways, i.e. optimizing their internal business processes (inbound/outbound logistics, materials management, manufacturing etc.).

The first event (February 13, 2020) is tailored for business management. Its presentations are at more general level and they aim at raising interest towards process optimization by means of several case examples. The second event (March 19, 2020) is for more technical people and its presentations focus on tools and methods used for planning, modelling, and implementing those changes, including also use of artificial intelligence and machine learning in process optimization.

The first event (for management):

When	Thursday, <b>February 13, 2020</b> at 9:00 ... 12:30
Where	<b>Sofia Future Farm</b> (Sofiankatu 4 C, <b>Helsinki</b> ) + online.
Cost	Free for employees of FIIF partner organizations.
Contact	FIIF Manager Risto Lehtinen, DIMECC Oy (e-mail <a href="mailto:fiif.manager@dimecc.com">fiif.manager@dimecc.com</a> , tel. +358 50 5553900) More information on the <a href="#">event web page</a> .

The second event (for technical):

When	Thursday, <b>March 19, 2020</b> at 9:00 ... 12:30
Where	<b>(Meeting Park, Forum, Marski 1, Helsinki)</b> + online.
Cost	Free for employees of FIIF partner organizations.
Contact	FIIF Manager Risto Lehtinen, DIMECC Oy (e-mail <a href="mailto:fiif.manager@dimecc.com">fiif.manager@dimecc.com</a> , tel. +358 50 5553900) More information on the <a href="#">event web page</a> .

FIIF session on "**Cyber security**" at TAMK IoT Seminar (March 10-11, 2020)

This Focused Partner Event will be organized in co-operation with **TAMK** ([Tampere University of Applied Sciences](#)), at TAMK's annual [IoT Seminar](#). FIIF will organize a session focusing on one of IoT Seminar's main themes, i.e. cyber security.

When	Tuesday, <b>March 10</b> or Wednesday, <b>March 11, 2020</b> (exact date and time will be decided later)
Where	<b>TAMK</b> (Tampere University of Applied Sciences, Kuntokatu 3, Tampere) + option for online participation.
Cost	Free for employees of FIIF partner organizations.
Contact	Program Manager Arto Peltomaa, DIMECC Oy (e-mail <a href="mailto:arto.peltomaa@dimecc.com">arto.peltomaa@dimecc.com</a> , tel. +358 40 5511434)

**“Digital business modelling workshop”** w/ Taival Advisory (April 2020, exact date TBD)

We continue our journey in digital business models w ith **Taival Advisory** w ith a hands-on w orkshop on identifying, planning and executing business transformation initiatives.

When	<b>April 2020</b>
Where	<b>Helsinki</b> + online.
Cost	Free for employees of FIIF partner organizations.
Contact	FIIF Manager Risto Lehtinen, DIMECC Oy (e-mail <a href="mailto:fiif.manager@dimecc.com">fiif.manager@dimecc.com</a> , tel. +358 50 5553900) More information on the <a href="#">event web page</a> .

**“Digital Twins in Industry”** w/ VR-Aamu event and SYK (April 2020, exact date TBD)

FIIF continues acceleration of industrial usage of **Virtual Reality (VR)** and **Augmented Reality (AR)** technologies.

When	<b>April 2020</b>
Where	<b>Kampusareena</b> (Korkeakoulunkatu 7, Tampere) + online.
Cost	Free for employees of FIIF partner organizations.
Contact	Program Manager Arto Peltomaa, DIMECC Oy (e-mail <a href="mailto:arto.peltomaa@dimecc.com">arto.peltomaa@dimecc.com</a> , tel. +358 40 5511434)

FIIF event w/ KOTEL on **“Reliability & Testing”** (May 2020, exact date TBD)

This FIIF event w ill be organized in co-operation w ith [KOTEL r.y.](#), a Finnish association focusing on reliability and testing of components and electro-mechanical systems. KOTEL has w orking groups consisting of technical experts from its member organizations covering topics like reliability, heat management, environmental compliance, and environmental testing. KOTEL organizes regularly seminars, w here the w orking groups present results of their activities.

When	<b>May 2020</b>
Where	<b>Espoo</b> + online.
Cost	Free for employees of FIIF partner organizations.
Contact	FIIF Manager Risto Lehtinen, DIMECC Oy (e-mail <a href="mailto:fiif.manager@dimecc.com">fiif.manager@dimecc.com</a> , tel. +358 50 5553900) More information on the <a href="#">event web page</a> .

Separate invitations to all these events w ill be sent to the official FIIF contact persons, so **please make sure your company’s contacts in the FIIF mailing list are up to date!**



FIIF offers to its partners an opportunity to introduce themselves in FIIF New sletters and on FIIF's web pages. Just fill in the requested information on the [online form](#).

## FIIF Networking Opportunity: TOP Data Science

**Business type:** Information Technology

**Organization size:** Micro

**The core business:** Founded in 2016, Top Data Science Oy is a company specializing in artificial intelligence and machine learning applications. We have implemented over 60+ AI/ML projects both in Finland and abroad. Our clients include StoraEnso, GE Healthcare, Glaston, Rocla and Novozymes. We are headquartered in Helsinki, where we currently have a team of 20 AI experts. We are part of the Morpho Technology Group, headquartered in Tokyo, Japan.

**Networking opportunities:** In our customer projects, we have applied a variety of artificial intelligence solutions. Examples of implemented projects include:

- Predictive analytics application for pulp production process optimization, scalable architecture on Azure IoT Platform
- Computer vision application for automatic recognition and measurement of welding seams in automotive industry
- Self-guided and artificial intelligence-based hardening process to maximize quality and energy efficiency
- AI Search Engine to improve customer support process of an industrial company
- Cash Flow Prediction with AI, trained with more than 1 million sales invoices
- Advanced video analytics; Traffic Cameras, Drone Videos, Security & Area Surveillance, Hospitals & Elderly Care
- Different applications of computer vision

**Additional comments:** Our efficient and agile approach creates easily measurable benefits for our customers. We turn projects into clear and cost-effective entities, where it is easy for the customer to verify the added value for their operations and quickly bring the developed solution from pilot to production.

**Website:** [Top Data Science Oy](#)

**Contact person:** Sales Director Vesa Jaakkola, [vesa.jaakkola \(at\) topdatascience.com](mailto:vesa.jaakkola@topdatascience.com), tel. +358 40 5222274

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## The next AI-heräämö events in Ylöjärvi, Nokia and Lempäälä

The Council of Tampere Region (Pirkanmaan liitto) and DIMECC have established a **local AI accelerator** ("AI-Heräämö") that aims at de-mystifying AI. AI-Heräämö offers AI-related training and information to companies as well as support for their AI and Machine Learning projects. AI-Heräämö focuses on **supplier and service SMEs** as increasing their expertise in this area will help a larger number of companies. SMEs can also apply for funding for their pilots from Pirkanmaa's Centre for Economic Development, Transport and the Environment (i.e. ELY-keskus).

The next AI-Heräämö events will take place:

- at Ylöjärvi on **January 14, 2020** at 9:00-12:00 (address: Joensivu-sali, Vanha Räikkä, Kuruntie 12, Ylöjärvi, [registration via this link](#)).
- at Nokia on **March 4, 2020** at 9:00-12:00.
- at Lempäälä on **March 5, 2020** at 9:00-12:00.

Contact: Dr. **Arto Peltomaa**, Program Manager, DIMECC Oy  
(email: [arto.peltomaa@dimecc.com](mailto:arto.peltomaa@dimecc.com), tel. +358 40 5511434)



COUNCIL OF  
TAMPERE REGION

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## Brief comments from FIIF Manager

**The next FIIF Newsletter will be published in January**, and it will contain a more detailed event calendar for spring of 2020. If you have other topics which you would like to bring to the attention of all FIIF members, please contact the FIIF Manager.

FIIF Manager also maintains the **FIIF mailing list**, which is used to distribute information to contact persons – including but not limited to the FIIF Newsletter and invitations to specific FIIF events. Please contact the FIIF Manager regarding any changes to the FIIF mailing list.

Have a restful holiday season! We will be back in business in January 2020!



**Risto Lehtinen**

FIIF Manager  
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tel. +358 50 5553900  
[fif.manager@dimecc.com](mailto:fif.manager@dimecc.com)



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