Welcome to participate the major international telemedicine and eHealth event in 2019!

Conference will cover themes from updating the knowledge about International, Nordic eHealth and national digital health trends and solutions. The Conference continues to offer proactive top-quality research outcomes, good advanced clinical practices, new learning opportunities and a place to network with versatile organizations and professionals that value quality eHealth information as well as both effective integrated system solutions and novel innovations. The site-visit present interesting solutions for the better and effective healthcare. The Conference offers unique meeting place and new information to physicians, young researchers, nursing staff as well as to responsible persons for management, research, development and education. Well-known international keynote lectures are accompanied by up-to-date scientific abstracts. Conference includes parallel English and Finnish tracks as well joint plenaries.

Conference topics, English track:
• Data-driven Health (plenary)
• Smart Care
• Patient Safety in Practice
• Precision Medicine
• AI & Robotics in Health
• Visions of Future Health (plenary)

Conference topics, Finnish track:
• Data-driven Health (plenary in English)
• Tietoaltaiden hyötykäyttö / The use of data-lakes
• eKoulutus ja eTutkimus / eEducation and eResearch
• Mobilit terveysratkaisut / Mobile Health Solutions
• Innovaatiot / Innovations
• Visions of Future Health (plenary in English)

As a pre-event of conference, eHealth2019 Hackathon 29th-31st March 2019 organized by Games for Health Finland brings together healthcare professionals and game makers to create new ideas and ways to use eHealth technology and promote eHealth with gamification.

Conference will contribute 10 hours of theoretical training for Finnish physicians’ and dentists’ special competence for healthcare information technology. It will also contribute 5-10 hours (depending on medical speciality) of theoretical training in the specialist training for Finnish physicians (Acceptance applied from University of Oulu). Conference is arranged in collaboration with The Finnish Society of Telemedicine and eHealth and The Kuopio University Hospital.

5 min rapid scientific presentations

The conference includes high quality scientific presentations that show an overview of eHealth and telemedicine development around the world within conference topics. In order to help scientists strive for brevity and clarity in their communications, the organizers offer a new compact style of presentation at this International Meeting called “5 Minute Rapid” presentations.

Welcome to listen, discuss and innovate!

Arto Holopainen
President
Finnish Society of Telemedicine and eHealth

Esko Vanninen
Executive Vice President, Research and Innovations
Kuopio University Hospital

More information

Speakers
Arto Holopainen
+358 45 139 3996
conference@telemedicine.fi

Abstracts
Pirkko Kouri
+358 44 785 6404
secretary@telemedicine.fi

Registration and conference info
www.ehealth2019.fi

Exhibition
Minna Storm
+358 40 507 0445
minna.storm@eccanordic.com

General information
Kati Haaraajo
+358 44 717 6058
kati.haaraajo@kuh.fi

Follow us on Twitter
#eHealth2019

We reserve the right to changes without prior notice
CALL FOR ABSTRACTS

The conference presents the latest eHealth / telemedicine research and development projects related to the conference topics as oral presentations and posters. All abstracts should be prepared using English language. All abstracts will be reviewed by the Scientific Committee. The committee reserves a right to choose some abstracts to be presented as oral presentation.

Accepted abstracts will be published in conference proceedings. Best abstracts are invited to be published as full papers in a special #eHealth2019 issue of *Finnish Journal of eHealth and eWelfare*.

At least one of the authors has to register as a conference participant and present the abstract either in oral session or as a poster in the poster session.

Material:
- Download abstract *guideline*
- Download abstract *template*

Important dates:
- Abstracts submission deadline is **14th January 2019 (extended)**
- Notification of acceptance is **28th January 2019**
- Abstracts submission via email to pirkko.kouri@savonia.fi

Scientific committee
- Pirkko Kouri PhD, Principal Lecturer, Savonia University of Applied Sciences (Chair)
- Jarmo Reponen, MD, PhD, Professor, University of Oulu (Vice-chair)
- Elina Kontio PhD, Principal Lecturer, Turku University of Applied Sciences
- Jouni Kurola, MD, PhD, Professor, Chief Physician, Prehospital Emergency Care Kuopio University Hospital and University of Eastern Finland
- Merja Miettinen, PhD, Professor, Executive Vice President for Customership and Services, Kuopio University Hospital

REGISTRATION

Registration fees:
- **450€**, early bird fee until **15.2.2019**
- **550€**, normal fee between **16.2.-19.3.2019**
- **90€**, student fee, a copy of valid student id card must be presented, fee does not include evening program
- KUH Personnel, FSTeH and ISTeH members get additional 30€ member discount (does not apply to student fee)
- *Registration fee includes participation to conference, conference material, transportation to site visits on 3rd April, servings according to conference program. All fees includes 24% VAT. Registration is binding. Cancellation fee before 18th March 2019 is 50% of registration fee. After 18th March 2019 full conference fee will be charged for cancellation and for no-show.*

Registration through online form: [https://my.surveypal.com/eHealth2019](https://my.surveypal.com/eHealth2019)

*If you need an invitation for visa application, please indicate this during registration process.*

EXHIBITION

This conference offers an important platform to present and discuss a wide range of topics related eHealth and telemedicine. We challenge you to bring your latest innovations and visions, to present them at the conference and show it at a stand in the exhibition area. The exhibition area will be in the same place or in the vicinity of networking breaks.

Contact Mrs. Minna Storm, minna.storm@eccanordic.com, +358 40 507 0445 to find out more what we can offer you!
VENUE

Conference venue is located in the heart of Kuopio Science Park, Savilahti area at Kuopio University Hospital Auditorium Building AA (Address: Puijonlaaksontie 2, FI-70210 Kuopio, Finland).

Check on Google maps
ARRIVING KUOPIO

Kuopio, the city of 118,000 inhabitants, is known for its exceptional atmosphere and top know-how. Kuopio is also widely known as a competitive, caring and tolerant urban centre of well-being expertise. The city of Kuopio has made many strategic choices to enhance the well-being of its citizens.

One third of Kuopio’s total area is water and half is covered by forests. Water, rich flora and hilly scenery are the essential characteristics of Kuopio – The Capital of Lakeland Finland. Beautiful nature and a pleasant living environment with good quality of services make Kuopio a city with proper quality of life. Moreover, Kuopio is well-known for several events like the international Kuopio Dance Festival, Finland Ice Marathon and a diversity of other activities.

In Kuopio every important thing is near you: from the city of culture and university takes only 45 minutes to Tahko tourism center, which is full service holiday resort.

Guests of meetings and congresses appreciate the exceptional kindness of people, the accessibility of Kuopio, the ease of traveling and the closeness to nature. After the high-quality conference day Kuopio is able to offer a wide variety of culture, local food and wellness in the wild.

**Travel times to Kuopio**

It is easy to travel to Kuopio whether by car, train, bus or airplane. The travel time by taxi from Kuopio airport to the centre of Kuopio is about 20 minutes. From the railway station and from the bus station to the centre it takes about 10 minutes by foot.

- Helsinki-Kuopio flight time 45 minutes
- Helsinki-Kuopio by train about 4 hours
- Oulu-Kuopio by train about 4 hours
- Tampere-Kuopio by train less than 3,5 hours

[Click here](#) for more information.
ACCOMMODATION

**Original Sokos Hotel Puijonsarvi**
Minna Canthin katu 16
Kuopio, Finland
tel. +358 10 7629 500

Original Sokos Hotel Puijonsarvi is the largest hotel in Eastern Finland but still you can feel the warm and cozy atmosphere all around the hotel. Original Sokos Hotel Puijonsarvi is located in the middle of the Savo market life offering nearby excellent shopping possibilities. Its green nature is just a short stroll away from the shining lake of Kallavesi. Original Sokos Hotel Puijonsarvi is an excellent choice for business and leisure travelers alike.

*Conference evening program 2nd April is arranged at the Original Sokos Hotel Puijonsarvi.*

<table>
<thead>
<tr>
<th>Room Type</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard Single</td>
<td>130 € / night</td>
</tr>
<tr>
<td>Standard Double</td>
<td>150 € / night</td>
</tr>
</tbody>
</table>

Reservations: [sales.kuopio@sokoshotels.fi](mailto:sales.kuopio@sokoshotels.fi) (eHealth2019)

**Scandic Kuopio**
Satamakatu 1
Kuopio, Finland
tel. +358 17 195111

The hotel is located in the beautiful Kallavesi lake district near the centre of Kuopio. Pleasant service and recently renovated, stylish rooms. The hotel offers several meeting rooms as well as an excellent relaxation area with sauna, swimming pool and Jacuzzi.

<table>
<thead>
<tr>
<th>Room Type</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard Single</td>
<td>109 € / night</td>
</tr>
<tr>
<td>Standard Double</td>
<td>129 € / night</td>
</tr>
<tr>
<td>Standard Family</td>
<td></td>
</tr>
<tr>
<td>Standard Single</td>
<td>119 € / night</td>
</tr>
<tr>
<td>Standard Double</td>
<td>139 € / night</td>
</tr>
<tr>
<td>Standard Family for three</td>
<td>159 € / night</td>
</tr>
<tr>
<td>Superior Single</td>
<td>129 € / night</td>
</tr>
<tr>
<td>Superior Double</td>
<td>149 € / night</td>
</tr>
<tr>
<td>Superior room for three</td>
<td>169 € / night</td>
</tr>
</tbody>
</table>

Reservations on 18.3.2019 at the latest: [http://www.scandichotels.fi/?bookingcoude=BTEL020419 kuopio@scandichotels.com](http://www.scandichotels.fi/?bookingcoude=BTEL020419 kuopio@scandichotels.com) (BTEL020419)

**Scandic Atlas**
Haapaniemenkatu 22
Kuopio, Finland
tel. +358 300 8704 23

Traditional, yet elegant city centre hotel in the best location in Kuopio. Enjoy great service in an international setting surrounded by shopping streets and services.

<table>
<thead>
<tr>
<th>Room Type</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard Single</td>
<td>105 € / night</td>
</tr>
<tr>
<td>Standard Double</td>
<td>125 € / night</td>
</tr>
<tr>
<td>Superior Single</td>
<td>125 € / night</td>
</tr>
<tr>
<td>Superior Double</td>
<td>145 € / night</td>
</tr>
</tbody>
</table>

Reservations: [atlas@scandichotels.com](mailto:atlas@scandichotels.com) (reservation code: 46799840)
Hotel Jahtihovi
Snellmaninkatu 23
Kuopio, Finland
tel. +35817 2644 400

The Jahtihovi Hotel is located on a quiet street near the beautiful passenger harbour. The hotel observes the no-smoking principle. All hotel facilities have free WiFi. Free parking slots with car-heater points in the hotel’s quiet back yard and also garage slots if needed. The attractive downstairs restaurant serves an ample buffet breakfast. At other times the restaurant is open only by arrangement. The hotel also has conference and sauna facilities for small groups.

<table>
<thead>
<tr>
<th>Room Type</th>
<th>Price</th>
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<tbody>
<tr>
<td>Standard Single Room</td>
<td>84 € / night</td>
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<tr>
<td>Superior Single Room</td>
<td>104 € / night</td>
</tr>
<tr>
<td>Economy Double Room</td>
<td>94 € / night</td>
</tr>
<tr>
<td>Standard Double Room</td>
<td>114 €</td>
</tr>
</tbody>
</table>

Reservations: info@jahtihovi.fi (eHealth 2019)

Rauhalahti
Kylyplåhotel Rauhalahti
Katiskaniemietie 8
70700 Kuopio
tel. +358 30 608 30
web https://www.rauhalahti.fi

The pleasant and comfortable rooms of the Rauhalahti Spa Hotel are perfect for those who appreciate a carefree stay. The hotel building also houses the spa pool section, treatment department, gym and restaurants. Rauhalahti is located about 7 km from Kuopio city centre. Rauhalahti’s wonderful surroundings for outdoor recreation as well as our programme of leisure activities offer lots of options both indoors and outdoors.

<table>
<thead>
<tr>
<th>Hotel / hotelrooms in the main building</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single room</td>
<td>100 € / night</td>
</tr>
<tr>
<td>Double room</td>
<td>62 € / person</td>
</tr>
<tr>
<td>Room for three</td>
<td>53 € / person</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Apartment Hotel / 32 m2 flats near the main building</th>
<th>Price / person</th>
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</thead>
<tbody>
<tr>
<td>Flat for two persons</td>
<td>65 €</td>
</tr>
<tr>
<td>Flat for three persons</td>
<td>57 €</td>
</tr>
<tr>
<td>Flat for four persons</td>
<td>52 €</td>
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</table>

<table>
<thead>
<tr>
<th>Hostel / flats with 2-3 rooms near the main building</th>
<th>Price / person</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single room</td>
<td>67 €</td>
</tr>
<tr>
<td>Room for two to three persons</td>
<td>40 €</td>
</tr>
</tbody>
</table>

Reservations: myynti@rauhalahti.fi (eHealth 2019)

IsoValkeinen
Majaniementie 2
Päivärinta
70420 Kuopio
tel. +358 17 5396 100
web https://www.isovalkeinen.com/

Hotel IsoValkeinen is a comfortable and peaceful hotel just beside the city centre. All our 100 hotel rooms are in 4 row houses. Hotel IsoValkeinen has a peaceful location beside beautiful lake Iso-Valkeinen but it is only 6 kilometers from the city centre and easy to reach.

<table>
<thead>
<tr>
<th>Room Type</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard Single Room</td>
<td>110 € / night</td>
</tr>
<tr>
<td>Standard Double Room</td>
<td>136 € / night</td>
</tr>
</tbody>
</table>

Reservations on 1.3.2019 at the latest: sales@isovalkeinen.com (eHealth 2019)
SITE VISITS

Conference includes site visits on Wednesday 3rd April 2019. Site visits have limited seating available.

1. **Microsurgery Centre of Eastern Finland**
   Kuopio University Hospital (KUH) Microsurgery Center (MIC) has been established in 2017. The Center offers 24/7 open and permanent place where the surgeons and other operating room staff can regularly practice hands on training and different surgical techniques in an artificial environment. By providing better training possibilities and increasing research in the field, it is possible to reduce the number of complications and achieve cost savings. The infrastructure also allows translative research and enables demanding health technology assessment (HTA) that meets EU-standards. The MIC assists both academics and entrepreneurs to reach new markets and employment. The technological advances and education will help make operative medicine safer and more efficient by providing the patients with better care, and therefore improved work capacity and reduced public costs.

2. **Kuopio University Hospital: smart medicine cabinets and PET radiopharmacy**
   Medication management in the hospital is a multi-stage process and involves many people and numerous steps. It also contains many possibilities of errors. The Kuopio University Hospital (KYS) utilizes new technology and automation in pharmaceutical storage and distribution systems, which has been planned to address these medication challenges. The goal is to improve patient safety.

   In hospital pharmacy department drug storages and storage management have been automated by using storage and retrieval robot. Robot for intravenous drug reconstitution in aseptic conditions offer ready-to-administer (RTA) antibiotic syringes for the patients in units. Robotics for infusion fluids handling and repackaging removes fluid bags from the cardboard boxes and place them in trolleys which are delivered to the patient care units. Automatic tablet dispensing machine dispense prescribed medicines for long term patients.

   There are 64 automated dispensing cabinets (ADCs) located in Kuopio university hospital in Operation theatres, Recovery rooms, Intensive care unit, Women's acute care unit, Emergency department and Cardiac care unit. Most of the ADCs are equipped by using an innovative pass-through method of ADC. This system allows the filling of the ADCs outside the room, and medicines can be given to patient inside the room at the same time. These ADCs are supported by bigger automated central cabinets in medication room. ADCs provide computer-controlled storage, dispensing, and tracking of drugs. These also reduce medication errors, improve stock control and bring about cost savings.

   Positron-emission tomography (PET) is one of the most important methods in today’s molecular imaging. Molecules are labeled with positron-emitting radioactive atoms and used to visualize biochemical and physiological processes in living organisms. PET diagnostics are increasingly important tools on the path to personalized medicine. Due to the short half-lives (typically from 2 to 110 min) of PET isotopes, radiopharmaceuticals are produced either on daily basis or even for individual patient investigations. PET radiopharmacy is located at Kuopio University Hospital, Kuopio, Finland. The laboratory is part of the Diagnostic Imaging Center and the clinical production of radiopharmaceuticals is controlled by Hospital Pharmacy. Productions process strictly follows the law of medicinal agency and GMP-protocols to ensure the finest quality and safety for the patients. GE Healthcare PETtrace 860 cyclotron can accelerate high energy protons or deuterons and it is currently used to produce 18F (half-life of 110min), 11C (20min), 15O (2min) isotopes. The production facility consists of a cleanroom laboratory (class C). Two automated dispensing systems are installed (Clio and Theodorico, Comecer). The laboratory area is monitored for radiation and automated systems are installed to ensure that the working environment is safe constantly.

3. **University of Eastern Finland (UEF) Human Measurement and Exercise Analysis (HUMEA) laboratory**
   The functioning of human body can be measured as a function of time by using different kinds of measurement systems. The time series acquired in these measurements are in general called biosignals. The most commonly studied biosignals include the electrocardiogram (ECG) and electroencephalogram (EEG) which are measurements of electrical activities of the heart and the brain, respectively. The analysis of biosignals is challenging, because extraction of useful information from these signals often necessitates complex mathematical models as well as knowledge of the underlying human physiology or neurophysiology.

We reserve the right to changes without prior notice
The main research topics of the group are currently human motion analysis, modelling of motor control in Parkinson’s disease, cardiovascular signal analysis methods, and psychophysiological measurements in assessing human behaviour and health. The research group has state-of-the-art laboratory facilities at the Campus area of the University (Kuopio campus). The facilities include human motion, human performance laboratories, as well as a driving simulator and robot-assisted rehabilitation facilities. The research group is constantly involved in several nationally and internationally funded projects, and the collaboration with clinical and industrial partners is very intensive. The group has an open laboratory environment, where four main functions are located in one open space. Please see 360 degree view of the laboratories (https://glovr.fi/lms/uef-360-labra/). The password required for the 360-view: UEF.


One focus area of Savonia University of Applied Sciences is applied wellbeing technology which promotes the development and commercialization of applications, the support of inclusive technology and the safe use of electronic systems. In addition, we offer education and concepts for working life, students and teachers in the field, utilizing the latest technology. Come and experience virtual teaching environments, play with technologies, and consider how you could apply them in your own work. More information: http://sht.savonia.fi/in-english

5. Mäntykampus, an elder-friendly living area

Mäntykampus has been chosen as a reference site for European Innovation Partnership on Active Healthy Ageing (EIP on AHA) network. Mäntykampus is elder-friendly living area in the city of Kuopio. Mäntykampus is large complex consisting of two nursing homes, 100 assisted living homes and 250 senior homes for independent living. Community center in the middle of Mäntykampus works place for group and volunteer activities etc. Mäntykampus is also a Living Lab environment. Current ICT solutions for supporting living at home and assisted living lack the interaction between demand and supply. Living Lab platform brings together different stakeholders (business, research, public and private health providers and customers) to solve key bottlenecks in collaboration.

6. Emergency Services College’s Training Ground

The Emergency Services College provides vocational education for firefighters, sub-officers, fire officers and emergency response centre operators in Finland. The College also offers a wide variety of specially tailored further training and in-service training for national and international professionals in the rescue and emergency field. It is also responsible for the training and recruitment of Finnish experts to international civil protection missions.

The College is supervised by the Finnish Ministry of the Interior. A significant portion of practical training at the Emergency Services College takes place at the training ground. The training ground is used for both vocational education and training as well as further training courses. It is also used in the realisation of disaster training exercises jointly carried out by different authorities. When the training ground was designed, an effort was made to create an environment for safe performance of training exercises in conditions that are as realistic as possible. The area includes versatile training exercise fields and special buildings, a reception and maintenance buildings as well as classrooms. The training ground can be used for practising various scenarios: extinguishing different types of fires, prevention of chemical spills, diverse rescue assignments, driving on emergency runs and provide emergency medical care to those injured in accidents. Emergency medical care exercises utilise all the training exercise fields on the training ground.

7. KCT Kuopio Center for Gene and Cell Therapy

Kuopio Center for Gene and Cell Therapy (KCT) is an international, newly established research organization in Kuopio, Finland, focused on developing novel gene and cell therapy products in the class known as Advanced Therapy Medicinal Products (ATMPs). The center's niche is in the interface between academic, basic research and the commercial biotechnology industry. Its exclusive access to FinVector’s GMP manufacturing and regulatory capability can rapidly move novel science through these difficult stages and into human trials. KCT provides an exciting environment for applied research of ATMPs discovering, establishing and developing them through Phase I clinical trials and utilizing some of the most advanced analytical and mechanistic proof of principle approaches in the sector. During the visit we will introduce KCT for the visitors and there will be a possibility to see research labs and Finvector’s GMP facility. Further information www.kct.fi. You find KCT also from LinkedIn, Instagram and Facebook.

8. Medicine storage automation for pharmacies

NEWICON OY is a health technology company founded in 2007. It is the market leader in medicine storage automation for pharmacies in Finland. The company has delivered medical service automation solutions to over 100 pharmacies and hospitals in Finland, Denmark, Russia, Israel, and China. Product portfolio consists from medicine storage and retrieval systems, smart medicine cabinets and IV medicine compounding systems. The company employs approximately 60 people and uses an ISO 9001 certified quality management system.
#eHealth2019 International Conference  
The 24th Finnish National Conference on Telemedicine and eHealth  
“Data-Driven Health”  
2-3 April 2019 | Kuopio University Hospital | Kuopio | Finland

<table>
<thead>
<tr>
<th>CONFERENCE PROGRAM</th>
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<tbody>
<tr>
<td>TUESDAY  April 2nd 2019</td>
<td></td>
</tr>
<tr>
<td>Venue: Kuopio University Hospital, AA building</td>
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<td>8.30 Registration opens</td>
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</tbody>
</table>

**Session 1 – Data-Driven Health (Auditorium 1 – Plenary)**  
Chair President, Chief Innovation Officer Arto Holopainen, Finnish Society of Telemedicine and eHealth, City of Kuopio

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
</table>
| 9.30 | Finnish Society of Telemedicine and eHealth opening words  
President Arto Holopainen  
Finnish Society of Telemedicine and eHealth |
| 9.40 | Kuopio University Hospital opening words  
Executive Vice President, Research and Innovations Esko Vanninen  
Kuopio University Hospital, Finland |
| 9.50 | Greeting from the Ministry of Social Affairs and Health, Finland  
Leader of Change Sinikka Salo  
Ministry of Social Affairs and Health, Finnish Goverment |
| 10.10 | Ilkka Winblad Honorary Lecture: Data-Driven Health  
Global Strategist Digital Health Lucien Engelen  
Deloitte Center For the Edge |
| 10.40 | Delivery of Finnish national eHealth awards |
| 10.50 | Networking break, coffee, exhibition and posters |

**Session 2A: Tietoaltaiden hyötykäyttö (Session in Finnish) (Auditorium 1)**  
Puheenjohtaja tutkimus- ja innovaatiojohtaja Esko Vanninen, Kuopion yliopistollinen sairaala

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.05</td>
<td>Puheenjohtajan johdatus aiheseen</td>
</tr>
</tbody>
</table>
| 11.10 | Sotetiedon toissijainen käytön uuden mahdollisuudet  
Professori, tutkimusyliääärä Päivi Rautava  
Turun yliopisto, Turun yliopistolinen sairaala |
| 11.25 | Mitkä ovat tietoaltaan koostamisen edellytykset?  
Dosentti Arho Virkki  
Auria tietopalvelu, Varsinais-Suomen sairaanhoitopiiri |
| 11.40 | Tietoaltaat: Data-analytiikan, tiedon tuotannon ja terveystaloustulosten hyödyntäjan aarreaita?  
Toimitusjohtaja Erkki Soini  
ESiOR Oy |
| 11.55 | Koko sote- ketjun hallinta tiedon avulla, case: Siun-sote  
Hallintoyliäärä Petri Kivinen  
Siun-Sote |
| 12.10 | 5 min rapid scientific presentations |
| 12.15 | O-1: Enabling Innovation Activities in Public Hospitals |
| 12.20 | O-2: Child placement costs and cost drivers: Isaacus Kuopio data lake project |
| 12.25 | O-3: Paramedic student perceptions of the technical and pedagogical usability of a virtual reality simulation |
| 12.35 | Presentations from exhibition  
• Neurocenter Finland  
• ESiOR Oy |

We reserve the right to changes without prior notice
**Session 2B: Smart Care (Session in English) (Auditorium 2)**

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>11.05</td>
<td>Chair’s introduction to the topic</td>
</tr>
<tr>
<td>11.10</td>
<td>Panel Discussion, Smart Care</td>
</tr>
<tr>
<td></td>
<td>Omaolo – new generation self-care services (3min opening)</td>
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<tr>
<td></td>
<td>Product Owner Jari Numminen</td>
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<tr>
<td></td>
<td>Sotedigi Oy</td>
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<tr>
<td></td>
<td>Health Village – Digital Leap for the Patient (3min opening)</td>
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<tr>
<td></td>
<td>Director of eHealth Services Sirpa Arvonen</td>
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<tr>
<td></td>
<td>Helsinki University Hospital, Finland</td>
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<tr>
<td></td>
<td>Future Care of Patients with Chronical Diseases (3min opening)</td>
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<tr>
<td></td>
<td>Head – Digital Health Peter Kjäll</td>
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<td></td>
<td>RISE Research Institutes of Sweden</td>
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<tr>
<td></td>
<td>Winter is Coming (3min opening)</td>
</tr>
<tr>
<td></td>
<td>Global Strategist Digital Health Lucien Engelen</td>
</tr>
<tr>
<td></td>
<td>Deloitte Center For the Edge</td>
</tr>
<tr>
<td></td>
<td>Digital Nutrition support – APPetitus experiences (3min opening)</td>
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<tr>
<td></td>
<td>Professor Anne Moen</td>
</tr>
<tr>
<td></td>
<td>University of Oslo, Norway</td>
</tr>
</tbody>
</table>

5 min rapid scientific presentations

12.10  O-4: Risk Factors of Hospitalization

12.15  O-5: Digital narrative as a tool for interaction and social inclusion

12.20  O-6: The feasibility and effectiveness of remote fitting of cochlear implants

12.25  Presentations from exhibition

- Visiba Care
- Wolters Kluwer

13.50  O-7: DigiNurse Model develops nursing students’ digital skills

13.55  O-8: Nurses’ Satisfaction with Medication Administration System

14.05  O-9: Ubiquitous learning environments promoting deeper and more efficient learning

5 min rapid scientific presentations

14.30  Workshop: Social Robots

15.00  Networking break, coffee, exhibition and posters
### Session 3B: Data-driven Precision Medicine (Session in English) (Auditorium 2)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>13.50</td>
<td>Chair’s introduction to the topic</td>
</tr>
</tbody>
</table>
| 13.55 | The Future of Genomic Medicine  
Professor Juha Kere  
King’s College London, Karolinska Institutet & University of Helsinki |
| 14.10 | Personalised Medicine and Oncology  
Professor Outi Kuitinen  
University of Eastern Finland, Kuopio University Hospital |
| 14.25 | Data-driven future supported by research and innovation competence centers  
Director, Professor of Practice Maritaa Perälä-Heape  
Centre for Health and Technology, University of Oulu, Finland |
| 14.40 | Precision Care for Health Self-Management in Smart Environments  
Professor Anthony Meader  
Flinders University, Australia |

**5 min rapid scientific presentations**

<table>
<thead>
<tr>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>14.55</td>
<td>O-10: Implementation of an eHealth application in myeloma treatment: a longitudinal feasibility study for patients and health care professionals</td>
</tr>
<tr>
<td>15.00</td>
<td>O-11: Digitalized secondary care services for insulin-dependent diabetes patients – Predictive cost-benefit analysis of Virtual Hospital 2.0 digital care path</td>
</tr>
<tr>
<td>15.05</td>
<td>O-12: How to succeed in implementing welfare technology to elderly care</td>
</tr>
</tbody>
</table>
| 15.10 | Presentations from exhibition  
- DDD Medical  
- MedHelp |
| 15.20 | Networking break, coffee, exhibition and posters |

### Session 4A: Mobiilit terveysratkaisut (Session in Finnish)  
(Auditorium 1)

**Puheenjohtaja johtajaylilääkäri Päivi Metsäniemi, Yliopilaiden terveydenhoitosäätiö YTHS**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Details</th>
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</thead>
<tbody>
<tr>
<td>16.00</td>
<td>Puheenjohtajan johdatus aiheeseen</td>
</tr>
</tbody>
</table>
| 16.05 | Liikkuvat terveysasemat - Kokemuska Eksote:sta  
Tietohallintojohtaja Toni Suhko  
Eksote |
| 16.20 | Mobiilit terveysratkaisut Ruotsissa  
Senior Advisor Nima Jokilaakso  
Business Finland |
| 16.35 | mHealth –palvelut käytännössä  
Yksikönojhtaja, Terveystalo Digiterveys Annette Kainu  
Terveystalo |
| 16.50 | Etdagnostiset työvälineet  
Johtajaylilääkäri Päivi Metsäniemi  
Yliopilaiden terveydenhoitosäätiö YTHS |

**5 min rapid scientific presentations**

<table>
<thead>
<tr>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>17.05</td>
<td>O-13: Digital treatment path for children attending HUS Child Psychiatry</td>
</tr>
<tr>
<td>17.10</td>
<td>O-14: Cost-benefit evaluation of digital HealthyWeightHub: Virtual Hospital 2.0</td>
</tr>
<tr>
<td>17.15</td>
<td>O-15: Differences in lifestyle patterns in association with insulin sensitivity and secretion profiles in a high-risk for diabetes Finnish population</td>
</tr>
</tbody>
</table>
| 17.20 | Presentations from exhibition  
- Ninchat  
- Timmi |
| 17.30 | Suomen telelääketieteiden ja eHealth Seura ry:n vuosikokous (Auditorium 1) |

**19.30**  
Ilallinen  
Original Sokos Hotel Puijonsarvi
### Session 4B: Patient Safety in Practice (Session in English) (Auditorium 2)

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Chair/Presenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>16.00</td>
<td>Chair’s introduction to the topic</td>
<td></td>
</tr>
</tbody>
</table>
| 16.05 | How to improve interdisciplinary information flow?  
Professor Kaija Saranto  
University of Eastern Finland |                                                      |
| 16.25 | Smart sensors will protect the patient safety in telemedicine  
Chief Information Security Officer Jenni Siermala  
SoteDigi Oy |                                                      |
| 16.45 | Integrating Clinical Decision Support into the Workflow to Support Clinical Practice and Patient Activation  
Associate Professor Patricia Dykes  
Brigham and Womens’ hospital, USA |                                                      |

**5 min rapid scientific presentations**

<table>
<thead>
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<th>Time</th>
<th>Session</th>
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</tr>
</thead>
<tbody>
<tr>
<td>17.05</td>
<td>O-16: Health Technology Assessment Framework for mHealth, Artificial Intelligence and Robotics</td>
<td></td>
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<tr>
<td>17.10</td>
<td>O-17: Triage Service user interface testing with end users to meet the requirements of new Medical Devices Regulation</td>
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<tr>
<td>17.15</td>
<td>O-18: Cost-benefit predictions of the Virtual Hospital 2.0 digitalized secondary care path for women with endometriosis in Turku area and in Finland</td>
<td></td>
</tr>
<tr>
<td>17.20</td>
<td>Presentations from exhibition</td>
<td>CARELIGO, Wolters Kluwer</td>
</tr>
<tr>
<td>17.30</td>
<td>General Assembly of Finnish Society of Telemedicine and eHealth</td>
<td></td>
</tr>
<tr>
<td>19.30</td>
<td>Dinner</td>
<td>Original Sokos Hotel Puijonsarvi</td>
</tr>
</tbody>
</table>
**WEDNESDAY April 3rd 2019**

### Site visits

8.30 Bus transportation to site visits (when applied)

*Note! Site visits have limited seats available.*

1. Microsurgery Centre of Eastern Finland
2. Kuopio University Hospital; smart medicine cabinets and PET radiopharmacy
3. University of Eastern Finland (UEF) Human Measurement and Exercise Analysis (HUMEA) laboratory
5. Mäntykampus, an elder-friendly living area (reference site for European Innovation Partnership on Active and Healthy Ageing, EIP AHA)
6. Emergency Services College’s Training Ground
7. Medicine storage automation for pharmacies
8. KCT Kuopio Center for Gene and Cell Therapy

10.30 Networking break, coffee and exhibition

### Session 5A: Innovaatiot (Session in Finnish) (Auditorium 1)

Puheenjohtaja kouluttajäläkäri Kirsimarja Metsävainio, Kuopion yliopistollinen sairaala

<table>
<thead>
<tr>
<th>Time</th>
<th>Session 5A: Innovaatiot (Session in Finnish) (Auditorium 1)</th>
<th>Speakers</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>11.00</td>
<td>Puheenjohtajan johdatus aiheeseen</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11.05</td>
<td>Innovaatiotoiminnan käynnistäminen yliopistollisessa sairaalassa</td>
<td>Suunnittelija Pauliina Hyrkkä Oulun yliopistollinen sairaala</td>
<td></td>
</tr>
<tr>
<td>11.20</td>
<td>Kansalaiset innovaatiotoiminnan keskiössä</td>
<td>Projektipäällikkö Pauliina Kämäräinen Kuopion kaupunki</td>
<td></td>
</tr>
<tr>
<td>11.35</td>
<td>Ideasta tuotteeksi - kokemuksia yritystoiminnan käynnistämisestä</td>
<td>Toimitusjohtajat Mikko Kokkonen Healthcare Mobile Solutions Oy</td>
<td></td>
</tr>
<tr>
<td>11.50</td>
<td>Innovatiiviset hankinnat työn kehittämisen mahdollistajana</td>
<td>ICT-arkkitehti Aki Lehto Tampereen yliopistollinen sairaala</td>
<td></td>
</tr>
</tbody>
</table>

5 min rapid scientific presentations

<table>
<thead>
<tr>
<th>Time</th>
<th>Innovaatiot</th>
<th>Speakers</th>
<th>Location</th>
</tr>
</thead>
<tbody>
<tr>
<td>12.05</td>
<td>O-19: Large-scale implementation, adoption and use of the Finnish national My Kanta Pages patient portal service in 2010–2018</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.10</td>
<td>O-20: The ideas of older people about usability of the Nao robot in their casual activities</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12.15</td>
<td>O-21: Using Cloud Server to Capture Real-time Blood Pressure to Predict the Adaptation of diagnostic digital pathology in Finland</td>
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<td></td>
</tr>
<tr>
<td>12.20</td>
<td>Presentations from exhibition</td>
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<tr>
<td></td>
<td>- Cephalon Finland A/S</td>
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<td></td>
<td>- Mediconsult Oy</td>
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<tr>
<td>12.30</td>
<td>Lounas</td>
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*We reserve the right to changes without prior notice*
### Session 5B: Artificial Intelligence & Robotics in Health (Session in English) (Auditorium 2)
Chair: Professor Pasi Karjalainen, University of Eastern Finland

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>11.00</td>
<td>Chair’s introduction to the topic</td>
</tr>
</tbody>
</table>
| 11.05 | AI in Medical Imaging Diagnostics  
Professor Simo Saarakkala  
University of Oulu, Finland |
| 11.20 | AI in multimodality diagnostics of dementia  
Chief Scientific Officer Jyrki Lötiönen  
Combinostics Ltd. |
| 11.35 | Robots in Health and Welfare - recent advanced in Japan  
Professor Nobuhiro Sakata  
Dokkyo Medical University, Japan |
| 11.50 | Ethical questions using robotics in older people’s care  
RDI Advisor Tiina Arpola  
Savonia University of Applied Sciences, Unit of Health Care, Finland |
| 11.55 | 5 min rapid scientific presentations |
| 12.05 | O-22: Development Path and Training of eProfessionals for Becoming Promoters of Digitalisation in Social and Health Care |
| 12.15 | O-24: Strategies for large-scale digital type 2 diabetes risk screening and research participant recruitment |
| 12.20 | Presentations from exhibition  
- RISE Research Institutes of Sweden  
- CARELIGO |
| 12.30 | Lunch |

### Session 6: Visions of Future Health (Session in English) (Auditorium 1)
Chair: Principal Lecturer and Vice-President Pirkko Kouri, Savonia UAS and International Society of Telemedicine and eHealth

<table>
<thead>
<tr>
<th>Time</th>
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</thead>
<tbody>
<tr>
<td>14.00</td>
<td>Chair’s introduction to the topic</td>
</tr>
</tbody>
</table>
| 14.05 | The digital transformation of Health and Care  
Head of the eHealth Unit Marco Marsella  
European Commission |
| 14.30 | Telemedicine in Japan now and future  
Professor Hiroshi Kondoh  
Tottori University, Japanese Telemedicine and Telecare Association, Japan |
| 14.55 | Shared Decision Making in Health and Wellbeing  
Director Risto Kaikkonen  
Solita |
| 15.20 | Summary and closing words  
President Arto Holopainen  
Finnish Society of Telemedicine and eHealth |
| 15.30 | Farewell |
WORKSHOPS

eHealth2019 provides parallel workshops affiliated with the conference. The main objective of the workshops is to provide a forum for participants to discuss a specific topic in eHealth2019. Please note that Workshops require separate registration.

**WORKSHOP: DEVELOPING WELFARE SERVICES WITH SOCIAL ROBOTS**

Workshop will be held in two parts on Tuesday 2nd April 2019:
13:50 – 15:20 Developing social robots and role in Finnish welfare services
16:00 – 17:30 Developing new services (Participation to first part is mandatory)

The workshop focuses on using social robots in care and on developing new robot-enabled care services. The workshop features services designed and used in Robots and the Future of Welfare Services (ROSE) project in Sipoo and the upcoming pilots in HyvinRobo project in Kuopio. Digitalisation and automation play a major role in solving current societal challenges, such as aging of the population and development of welfare services. Supporting the well-being and independent living of senior citizens with new generations of social robots and care robots is a part of this development.

From a research point of view, social robots have rarely been used in welfare services in Finland. The social robot service offerings in Finnish market are limited, and rarely suitable for pilot research with user groups that have special needs, such as senior citizens or people with disabilities. Instead of using existing offerings, researchers have the option of developing the services and the software required for pilot deployment themselves. While current generation of social robots makes service development relatively easy in terms of technology, the process from ideation to implementation features other challenges.

Co-creation allows service developers to acknowledge their users’ needs and to create services that are purposeful for the users. However, social robots are largely unfamiliar technology among care workers. Unfamiliarity with used technology results in difficulties in providing useful input towards ideating and developing services. The workshop features learnings from ROSE project and invites the participants to generate new service ideas for the upcoming HyvinRobo project pilot experiments.


In Finnish:

**Sosiaaliset robotit hyvinvointipalvelujen edistäjänä**

Työpaja järjestetään kahdessa osassa 2.4.2019:
13:50 – 15:20 Sosiaalisten robottien kehittäminen ja rooli Suomen hyvinvointipalveluissa
16:00 – 17:30 Uusien palveluiden kehittäminen (edellytyks edelliseen osioon osallistuminen)


#eHealth2019 International Conference
The 24th Finnish National Conference on Telemedicine and eHealth
“Data-Driven Health”
2-3 April 2019 | Kuopio University Hospital | Kuopio | Finland

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- Jarmo Reponen, MD, PhD, Professor, University of Oulu, Vice-President, FSTeH (Vice-chair)
- Pirkko Kouri PhD, Principal Lecturer, Savonia University of Applied Sciences
- Elina Kontio PhD, Principal Lecturer, Turku University of Applied Sciences
- Minna Storm Econ.LIC/KTL, CEO, Ecca Nordic
- Sanna Virkkunen MSc (Tech), Head of ICT Architecture & Design, Northern Ostrobothnia Hospital District
- Päivi Metsäniemi MD, Medical Director, Finnish Student Health Service
- Outi Ahonen MNSc, Senior Lecturer, Laurea University of Applied Sciences
- Seppo Savikurki MSc (Tech), Technical Director, Ecoset Oy
- Esko Vanninen MD, PhD, eMBA, Executive Vice President, Research and Innovations, Kuopio University Hospital
- Kati Haaraoja BBA, training coordinator, Kuopio University Hospital
- Maiju Laaksonen BBA, developer, Kuopio University Hospital
- Kirsimarja Metsävainio MD, Clinical Educator, Kuopio University Hospital
- Kirsi-Marja Remes, MHSc, ICT Manager, Kuopio University Hospital

Scientific committee
- Pirkko Kouri PhD, Principal Lecturer, Savonia University of Applied Sciences (Chair)
- Jarmo Reponen, MD, PhD, Professor, University of Oulu (Vice-chair)
- Elina Kontio PhD, Principal Lecturer, Turku University of Applied Sciences
- Jouni Kurola, MD, PhD, Professor, Chief Physician, Prehospital Emergency Care Kuopio University Hospital and University of Eastern Finland
- Merja Miettinen, PhD, Professor, Executive Vice President for Customership and Services, Kuopio University Hospital

Exhibition committee
- Minna Storm Econ.LIC/KTL, CEO, Ecca Nordic (Chair)
- Seppo Savikurki MSc (Tech), Technical Director, Ecoset Oy (Vice-chair)
- Arto Holopainen MSc (Tech), Chief Innovation Officer, City of Kuopio
- Kati Haaraoja BBA, Training Coordinator, Kuopio University Hospital

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The 24th Finnish National Conference on Telemedicine and eHealth
“Data-Driven Health”
2-3 April 2019 | Kuopio University Hospital | Kuopio | Finland

Event week 29.3.-5.4.2019 - KUOPIO

#eHealth2019 Hackathon
29.-31.3.2019

#eHealth2019 Conference
2.-3.4.2019

Health’19 & #TahkoSLP
4.-5.4.2019

Please note that Hackathon and Tahko Ski Lift Pitch are separate events from eHealth2019, additional registration and fees may apply.

Read more: City of Kuopio