

PHEALTH 2018 PROGRAM (FINAL)

LOCATION: ROOM K102, BUILDING K, NORWEGIAN UNIVERSITY OF SCIENCE AND TECHNOLOGY (NTNU)

TUESDAY, 12 JUNE 2018

09:00 – 09:50 **KEYNOTE SPEECH:** HELGE T. BLINDHEIM (NORWAY): “THE NORWEGIAN STRATEGIES FOR EHEALTH”

10:00 – 12:00 **WORKSHOP ON HEALTH DATA MANAGEMENT AND SHARING – A DEMOCRATIC PERSPECTIVE**

Gunnar A. Johansen (Norwegian Health Network): “Securing the national health network infrastructure”

Roar Halvorsen (Inland Hospital ICT): “Information security and vulnerability assessments of new technologies in the healthcare system – a perspective from daily operation”

Nuria Castell et al. (Norwegian Institute for Air Research): “The role of citizen science data in air quality research-data management and sharing”

Vivek Agrawal (NTNU): “Exploring info.sec. challenges in Norwegian healthcare through community of practice”

Staal A. Vinterbo (NTNU): “Privacy beyond confidentiality”

Panel discussion: all speakers and audience.

12:00 – 13:00 **LUNCH (ATRIUM, BUILDING A)**

13:00 – 15:00 **WORKSHOP ON THE EU PROJECT VICINITY**

Christoph GRIMM (TU Kaiserslautern): “Introductions to IoT and H2020-funded initiatives”

Asbjørn Hovstø (Hafenstrom): “Description of Use cases and Business opportunities”

Carmen Perea (ATOS): “Turning Europe into a Service Platform”

Carmen Perea (ATOS): “Open Calls as Driver for Innovation”

Q&A

15:30 – 16:00 **INVITED SPEECH:** MIRKO DE MALDÈ (ITALY): “MYHEALTHMYDATA – GAIN NEW CONTROL OVER YOUR PERSONAL HEALTH DATA”

15:00 – 16:00 **CONFERENCE REGISTRATION, COFFEE**

17:00 – 17:45 **APERITIF (ATRIUM, BUILDING A)**

18:00-19:30 **WELCOME RECEPTION (ATRIUM, BUILDING A)**

WELCOME ADDRESS: BJØRN ASTAD, NORWEGIAN MINISTRY OF HEALTH AND CARE

WELCOME ADDRESS: NILS KALSTAD SVENDSEN, NTNU

WELCOME ADDRESS: LINE ANDREASSEN SAELE, HL7 NORWAY

WELCOME ADDRESS: BERND BLOBEL, GERMANY, PHEALTH STEERING BOARD

WELCOME ADDRESS: LOC CHAIR: BIAN YANG– LOC PHEALTH 2018

WEDNESDAY, 13 JUNE 2018

08:30-09:00 **REGISTRATION**

09:00-10:00 **WELCOME AND KEYNOTE SESSION**

CHAIRS: MARIA LINDÉN, SWEDEN; BJØRN ASTAD, NORWAY

WELCOME ADDRESS: BERND BLOBEL, GERMANY – SPC CHAIR

WELCOME ADDRESS: LINE ANDREASSEN SAELE, HL7 NORWAY, CHAIR

KEYNOTE SPEECH: BERND BLOBEL (GERMANY), ET AL.: “MODELING THE PERSONAL HEALTH ECOSYSTEM”

10:00-10:15 COFFEE BREAK

10:15-11:45 **PATIENTS AND CITIZENS SELF-MANAGEMENT SOLUTIONS**

CHAIRS: FILIPE SOUSA, PORTUGAL; LINE ANDREASSEN SAELE, NORWAY

INVITED SPEECH: BRAD HOLSCHUH (U.S.A.): “GARMENT-INTEGRATED SENSING AND ACTUATION TECHNOLOGIES FOR REAL-TIME, REMOTE HEALTH MONITORING AND TELE-REHABILITATION”

Motivational Factors for User Engagement with mHealth Apps (5)

Ashenafi Zebene WOLDAREGAY (NORWAY), David-Zacharie ISSOM (SWITZERLAND), André HENRIKSEN (NORWAY), Henna MARTILA (FINLAND), Martin MIKALSEN, Gerit PFUHL, Keiichi SATO (NORWAY), Christian LOVIS (SWITZERLAND), Gunnar HARTVIGSEN (Norway)

Using Activity Theory as a Framework for the Usability Evaluation Process and Task Determination in mHealth Self-Management Systems for Diabetes (30)

Mattias GEORGSSON (Sweden)

Poster Presentation: Importance of personalized health-care models: A case study in activity recognition (3)

Eftim ZDRAVEVSKI, Petre LAMESKI, Vladimir TRAJKOVIK (Macedonia), Nuno POMBO, Nuno GARCIA (Portugal)

11:45-12:05 **INFORMATION PRESENTATION:** TED SCOTT, VP OF RESEARCH AND CHIEF INNOVATION OFFICER AT HAMILTON HEALTH SCIENCES (CANADA): “CANADA – THE LAND OF DREAMS AND OPPORTUNITIES IN HEALTHCARE”

12:05-13:00 LUNCH (ATRIUM, BUILDING A)

13:00-15:00 **DECISION SUPPORT SYSTEMS**

CHAIRS: DIMITRIOS G. KATEHAKIS, GREECE; ASBJØRN HOVSTØ, NORWAY

Design and Implementation of Big Data-based Documents to Optimize Medical Coding (24)
Joseph NOUSSA-YAO, Didier HEUDES, Patrice DEGOULET (France)

HAART Prescription Support Tool for Personalized Therapy (25)
Barbara GIANNINI, Mauro GIACOMINI (Italy)

Decision Support System Based on FHIR Profiles (28)
Ilia SEMENOV, Georgy KOPANITSA (Russia)

Human Activity Recognition Supported on Indoor Localization: A Systematic Review (31)
Jesús CERÓN, Diego M. LÓPEZ (Colombia)

Poster Presentation: Medical Device Integrated Vital Signs Monitoring Application with Real-time Clinical Decision Support (4)
Aasia MOQEEM, Mirza BAIG, Hamid GHOLAMHOSSEINI, Farhaan MIRZA (New Zealand), Maria LINDÉN (Sweden)

Poster Presentation: Patient Decision Aid Systems: an Overview (17)
Fariba AGIN, Zahra MADHANI, Akram ZAHMATKESHAN KHORASANI, Hanieh ZEHTAB, Azam ASLANI (Iran)

15:00-15:30 COFFEE BREAK

15:30-17:20 **VITAL SIGNS AND ACTIVITY MONITORING**

CHAIRS: BERND BLOBEL, GERMANY; DAG WAALER, NORWAY

INVITED SPEECH: LENKA LHOTSKA, ET AL. (CZECH REPUBLIC): “PERSONALIZED MONITORING AND ASSISTIVE SYSTEMS: CASE STUDY OF EFFICIENT HOME SOLUTIONS”

Cuffless Blood Pressure Estimation Using Pulse Transit Time and Photoplethysmogram Intensity Ratio (6)

Hamid GHOLAMHOSSEINI, Mirza BAIG, Solmaz RASTEGAR (New Zealand), Maria LINDÉN (Sweden)

Quality Index Analysis on Camera-based R-peak Identification Considering Movements and Light Illumination (9)

Mobyen Uddin AHMED, Hamidur RAHMAN, Shahina BEGUM (Sweden)

Calibration and Electrical Validation of a BIS Portable System (29)

José ALVES, Filipe SOUSA, Miguel V CORREIA (Portugal)

Poster Presentation: Designing a Novel Technical Infrastructure for Chronic Pain Self-Management (14)

Haridimos KONDYLAKIS, Angelina KOUROUBALI, Lefteris KOUMAKIS (Greece), Alejandro RIVERO-RODRIGUEZ, Santiago HORS-FRAILE (Spain), Dimitrios G. KATEHAKIS (Greece)

18:30-21:30 **SOCIAL EVENT: SKIBLADNER DINNER**¹

¹ The conference dinner is free for conference registrants and requires separate payment (600 NOK) for an extra ticket.

THURSDAY 14 JUNE 2018

08:30-10:00 BEHAVIOR AND POPULATION HEALTH

CHAIRS: HAMID GHOLAMHOSSEINI, NEW ZEALAND; NURIA CASTELL, NORWAY

INVITED SPEECH: PEKKA RUOTSALAINEN (FINLAND), ET AL.: “A MODEL FOR CALCULATED PRIVACY AND TRUST IN PHEALTH ECOSYSTEMS”

Big Data in Brazilian Cancer Surveillance (15)

Antônio Augusto GONÇALVES, José Geraldo PEREIRA BARBOSA, Sandro Luís FREIRE de CASTRO SILVA, Carlos Henrique FERNANDES MARTINS, Cezar CHENG (Brazil)

Improving Patient Motivation towards Physical Rehabilitation Treatments with PlayTherapy Exergame (16)

Edwin GAMBOA, Camilo RUIZ, Maria TRUJILLO (Colombia)

Poster Presentation: Inspiring Older People to Eat Healthily (10)

Kristin Skeide FUGLERUD, Wolfgang LEISTER, Aleksander BAI, Caroline FARSJØ, Anne MOEN (Norway)

10:00-10:30 COFFEE BREAK

10:30-12:00 PHEALTH AND MHEALTH APPLICATIONS

CHAIRS: LENKA LHOTSKA, CZECH REPUBLIC; SULE YILDIRIM, NORWAY

Assistive Medication Management System for Users with Visual Impairment (1)

Kiana FARHADYAR, Reza SAFDARI, Ahmad BEHPAJOOH (Iran), Iman NEMATOLLAHI (Germany)

Embedded Sensor Systems for Health – A Step towards Personalized Health (23)

Maria LINDÉN, Mats BJÖRKMAN (Sweden)

Developing an Android-Based Patient Decision Aid Based on Ottawa Standards for Patients after Kidney Transplant and its Usability Evaluation (20)

Mahboobeh ZARE MOAYEDI, Azam ASLANI, Mostafa FAKHRAHMAD, Shahrokh EZZATZADEGAN J. (Iran)

Poster Mobile Technology Applications in Cancer Palliative Care (12)

Sandro Luís FREIRE de CASTRO SILVA, Antônio Augusto GONÇALVES, José Geraldo PEREIRA BARBOSA, Cezar CHENG, Carlos Henrique FERNANDES MARTINS (Brazil)

12:00-13:00 LUNCH (ATRIUM, BUILDING A)

13:00-15:00 **OTHER ISSUES**

CHAIRS: MOBYEN UDDIN AHMED, SWEDEN; MARIUSZ NOWOSTAWSKI, NORWAY

INVITED SPEECH: MATHIAS BROCHHAUSEN, JONATHAN BONA (U.S.A.), ET AL.: “THE ROLE OF AXIOMATICALLY-RICH ONTOLOGIES IN TRANSFORMING DATA TO KNOWLEDGE (AND VICE VERSA)”

A Predictive Model for Patient Similarity: Classes Based on Secondary Data and Simple Measurements as Predictors (8)

Aleksei DUDCHENKO, Georgy KOPANITSA (Russia), Petra KNAUP, Matthias GANZINGER (Germany)

Spatiotemporal Gait Variables Using Wavelets for an Objective Analysis of Parkinson Disease (27)

Yor CASTAÑO, Juan ARANGO, Andrés NAVARRO (Colombia)

Poster Presentation: FHIR Healthcare Directories: Adopting Shared Interfaces to Achieve Interoperable Medical Device Data Integration (2)

Timothy TYNDALL, Ayami TYNDALL (U.S.A.)

INVITED SPEECH: ASBJØRN HOVSTØ, ET AL.: “ENABLING INTEROPERABILITY-AS-A-SERVICE FOR CONNECTED IoT INFRASTRUCTURES AND SMART OBJECTS”

15:00-15:30 **POSTER PRESENTATIONS (OUTSIDE K102)**

15:30-16:00 COFFEE BREAK

16:00-17:00 **CLOSING CEREMONY**

CHAIRS: BERND BLOBEL, GERMANY; MARIA LINDÉN, SWEDEN; LENKA LHOTSKA, CZECH REPUBLIC; BIAN YANG, NORWAY; LINE ANDREASSEN SAELE, NORWAY; ASBJØRN HOVSTØ, NORWAY

BEST CONTRIBUTION AWARD

PRESENTATION FOR PHEALTH 2019
