Appendix 3

Program Parallell workshops/Presentation Sessions

Tuesday November 14
9:00 - 11.30

Sustainability

Room 1, NAT.D.210, Natural Science building
Workshop: Understanding climate change adaptation and disaster management together. Professor Carina Keskitalo, Associate Professor Malin Eklund Wimelius, Umeå University, Sweden and Professor Guang wei Huang, Sophia University, Japan

Room 2, NAT.C1.213, Natural Science building
Workshop: Utilization of Digestate for Sustainable Cycle Systems of Carbon, Nitrogen and Phosphorus. Associate professor Iryna Ablieieva, Associate professor Karin Tonderski Department of Management and Engineering - Environmental Technology and Management Linköping University and Professor Kazuei Ishii, Laboratory of Sustainable Cycle Systems, Hokkaido University

Room 3, NAT.D.220, Natural Science building
Presentations:
- Sustainable orthopedics solutions from 3D printed Wood Plastics Composites. Professor Magnus lestelius, Karlstad University, Sweden
- Environmental Sustainability Evaluation in Sub-Saharan Africa: Ecological footprint, Energy Consumption and Environmental Degradation. PhD student Josephine Andrea Niangue, Sophia University, Japan
- Development of the Framework for Transformative Change through Introduction of Sustainable Tourism in Mauritius. PHD Student, Koji Miwa, University of Tokyo, Japan
- An Urban 'Age of Timber'? Tensions and contradictions in the low-carbon imaginary of the urban bioeconomy. Associate Senior Lecturer Bregje van Veelen, Lund University
- Perovskite solar cells toward commercialisation. PhD student Ilhem Nadia Rabehi, Okinawa Institute of Science and Technology Graduate University, Japan

Ageing

Room 1, BET.E.109, Behavioural Science building
Presentations:
- Older adults' occupations in heat waves. Susanne Gustafsson, Associate Professor, Jönköping University
- AI Analysis of Health Checkup Data for Risk Assessment and Prevention of Dementia in Elderly People. Kaoru Sakatani, Project Researcher (Former Project Professor), The University of Tokyo
- Implementation of high-intensity training programs adapted for Japanese and Swedish older individuals. Jennifer Frankel, PhD, Umeå University, Hiroaki Nakashima, Associate Professor, Nagoya University
- Examining the Effects of Partial Retirement on Joint Retirement Decisions: Evidence from Sweden. Alireza Khoshghadam, PhD student, Jönköping University

- Proteomic signature of Ageing immunity: Ageing CD4 T cell proteome, glycolysis and immune activation. Rajkumar Singh Kalra, Staff Scientist, Okinawa Institute of Science and Technology Graduate University
- Spatial metabolic mapping of the ageing brain with mass spectrometry imaging. Theodosia Vallianatou, PhD, Uppsala University
- Making use of data generated by welfare technologies - for safety and efficiency in elderly care. Ella Kolkowska, Associate Professor, Örebro University and Shang Gao, Associate Professor, Örebro University

Room 2, BET.E.101, Behavioural Science building
Workshop: Serious Illness Conversations – Enhancing sustainable early integrated palliative care. Sofia Andersson, PhD, Umeå University, Rebecca Baxter, RN PhD, Linnaeus University, Umeå University, Susanna Pusa, RN PhD, Linnaeus University, Umeå University and Yoshihisa Hirakawa, MD, Professor, Nagoya University (visiting faculty)

Presentation: Core elements of serious illness conversations. Rebecca Baxter, RN PhD, Linnaeus University

AI

Room 1, NAT.D.380, Natural Science building
Introduction – motivation Implications of AI (60 minutes)
- FAIR requirements of AI (Stefan L)
- Open science
- Chat-GPT – opportunities and limitations

Ethical, Legal and Social Issues of AI and Technology (ELSAI) (60 minutes)
Short high-level presentations of the different perspectives (5 minutes, each). Society, Legal, Business, Tech. Any other presentations for 5 minutes

Panel discussion and open discussion (Moderator: Marcus Liwicki, LTU)

Room 2, NAT.D.400, Natural Science building

AI in Biomedicine and Health

Presentations:
- AI-Based Neurosurgical Support and Prediction of Postoperative Complications. Yutaro Fuse, Nagoya University, PhD Student. (20min + questions)
- Sparse PET: Restoring incomplete measurements with deep learning, Klara Leffler, Umeå University, PhD Student.(20min + questions)
- Human Activity Recognition for Daily Life, Francisco Calatrava, Örebro University, PhD student (20min + questions)

Discussion forum/ group discussions on the topics

IEAG
Room BET.F.108 Behavioural Science building

Presentations:

- How orchestrators facilitate ecosystem emergence: Technological and institutional experimentation in digital sectoral transformation. Associate Professor Henry Lopez-Vega, Umeå University
- Model Development and Data Analysis for Business Idea Generation Process on Entrepreneurship Education: Case from the GTIE Gap Fund Program. Professor Tomomi Kito, Waseda University
- Women Entrepreneurs Doing and Undoing their Motherhood. Associate Professor Magdalena Markowska, Umeå University "External Enablement of Social Entrepreneurship", Postdoctoral Researcher Meurer, (Marie) Madeleine, Jönköping University
- The relationship between entrepreneurship education and entrepreneurial intentions. (A doctoral student's experience with entrepreneurship education and his business plan). Professor Yukiko Konishi, Startup Promotion Office, Nagoya University, Doctoral Student Sena Hoshino, Graduate School of Engineering, Nagoya University
- External Enablement of Social Entrepreneurship. Postdoctoral researcher Madeleine (Marie) Meurer, Jönköping University, Professor Per Davidsson, Jönköping International Business School

Material Sciences

Room NAT.D.300, Natural Science building

Use of large scale facilities

Presentations:

- Max Lab. Olof Karis, Uppsala University
- Structural Analysis by Synchrotron X-ray Radiation. Satoru Yoshioka, Kyushu University
- ESS. Masatoshi Arai, ESS
- Advanced Neutron Optics for Neutron Sources. Masaaki Kitaguchi, Nagoya University

Tuesday November 14
13:00 - 15.00

Sustainability

Room 1, NAT.D.210, Natural Science building

Workshop: Negative emissions of carbon dioxide: potential solutions, challenges and collaborations for Sweden and Japan. Associate Professor Roman Selyanchyn, Kyushu University, Japan, Associate Professor Truong Nguyen, Umeå University, Sweden and Associate Professor Leteng Lin, Linnaeus University, Sweden

Room 2, NAT.C1.213 Natural Science building

Workshop: How can the health care services better prepare for vulnerable population in community? What is community resilience in a time of climate change? Associate Professor Kako Mayumi, Hiroshima University, Associate Professor Karin Hugelius, Örebro university and Associate Professor Lina Gyllencreutz, Umeå University

<u>Room 3</u>, NAT.D.220, Natural Science building

Presentations:
- Toward sustainable and responsible production (concept,challenges and future work). PhD student Melina Ettehad, Jönköping University
- Prospective sustainability assessment for life cycle designing of innovative concepts and technologies. Postdoc John Laurence Esguerra, Linköping University
- On the suitability of action plans for facilitating urban climate change adaptation and mitigation: An analysis of 257 plans worldwide. PhD student Prince Dacosta Aboagye, Hiroshima University
- Investigating the Effects of Higher Education on Environmental Values: A Cross-Country Study in Europe. PhD student Ana Carolina Penha, Luleå University
- The mitigation of negative environmental impacts. Associate Professor Natalia Berg, Linneaus University

Ageing

<u>Room 1</u>, BET.E.109, Behavioural Science building

Presentations:
- Core competencies for serious illness conversations: findings from an integrative systematic review. Susanna Pusa, PhD, Linnaeus University
- ''TOMOSODACHI (growing up together)'' between children and the elderly at nursery school. Miyoshi Shirota, PhD, Waseda University
- Hospital clinician's experience of implementation of Serious Illness Care Program (SIPC) with a focus on conversation training – A qualitative study. Lisa Granat, PhD student, Linnaeus University
- The relationship between time discounting and gambling behavior: Profound implications for the Japanese elderly. Trinh Nguyen, PhD, Hiroshima University

Discussion & short break

- Striving for partnership: Informal caregivers' experiences of support from a tailored primary health care unit. Ulrika Westerling, PhD student, Örebro University
- Caring mealtime environments in nursing homes. Magdalena Nielsen, PhD student, Linnaeus University

Discussions

<u>Room 2</u>, BET.E.101, Behavioural Science building

Workshop: Creating safe interactions for LGBTQ older adults in health-care settings. Anna Bratt, Associate Professor, Phd, Linnaeus University, Yoshihisa Hirakawa, Professor, Nagoya University (visiting faculty), Tsukasa Muraya, Associate Professor, Chikushijogakuen University, Ann-Christine Petersson Hjelm, JD, Uppsala University and Matilda Wurm, PhD, Örebro University

Presentation: Older LGBTQ people's experiences of quality of life, minority joy, resilience, minority stress, discrimination, and stigmatization in Japan and Sweden. Ann-Christine Hjelm, JD, Uppsala University.

AI

Room 1, NAT.D.380, Natural Science building
Legal, moral, ethical and business aspects of AI (20 min + questions)

Presentations:
- Can the use of privacy-enhancing technologies enable federated learning for health data applications in a Swedish regulatory context? Rickard Nakamura Brännvall, Luleå University of Technology, PhD student.
- The Admissibility of AI Evidence in a Criminal Trial: Toward Appropriate and Effective Use of AI. Yuto Yokoyama, Hiroshima University, PhD student.
- Preliminary Results of Perception(s) of AI and robotics in Sweden and Japan. Laetitia Tanqueray, Lund University, PhD student; Stefan Larsson, Lund University, Associate Professor.

Discussion forum/group discussions on the topic

Room 2, NAT.D.400, Natural Science building

Chair of the session: Professor Ogata, Waseda University

Bridging LLM and Embodied AI, Tetsuya Ogata, Professor, Waseda University (10 min, plus questions)

Presentations (20 min + questions):
- Theoretical Aspects of AI. Stabilizers for the stochastic gradient descent method with application in deep learning. Siyang Wang, Assistant Professor, Umeå University; Yoshinari Takeishi, Assistant Professor, Kyushu University; Jun'ichi Takeuchi, professor, Kyushu University
- Industry 5.0 and Society 5.0. The Role of Artificial Intelligence in the Digital Transformation of Manufacturing SMEs. Einav Peretz-Andersson, Jönköping University, PhD Student

Discussion forum/group discussions on the topics

Material Sciences

Room 1, NAT.D.270, Natural Science building

Theme: The role of materials for sustainability.

Presentations:
- Fluorescent Carbon Dots from Birch Leaves for Sustainable Electroluminescent Devices. Jia Wang, Umeå University
- Synthesis and function of Helical capsule polymers. Koki Hamada, Hiroshima University
- Graphene MesoSponge: A novel carbon material for extended battery lifespan. Hirotomo Nishihara, Tohoku University

- Dynamic Behavior of Intermediate Adsorbates to Control Activity and Product Selectivity in Heterogeneous Catalysis: Methanol Decomposition on Pt/TiO2(110). Satoru Takakusagi, Hokkaido University
- High-resolution observation of polymeric materials using scanning transmission electron microscopy. Tomohiro Miyata, Tohoku University
- Architectured materials for mechanical coupling and tuned anisotropic elasticity. Mahmoud Mousavi, Uppsala University
- Perovskite Solar Cells. Toshinori Matsushima, Kyushu University
- Improving the Stability of Perovskite Solar Cells. Feng Wang, Linköping University

Room 2, NAT.D.280, Natural Science building

Workshop: Advanced electrolyte materials for energy storage and conversion. Prof. Masahiro Yoshizawa-Fujita, Sophia University, Dr. Jonas Mindemark, Uppsala University and Prof. Yasuhide Inokuma, Hokkaido University

IEAG

Room, BET.F.108, Behavioural Science building

Workshop: Forests at a Crossroads: Sustainable Pathways for Sweden and Japan. Professor Mattia Bianchi, Stockholm School of Economics