Hours given in Central Eastern Time (UTC+1) All presentations will have face-to-face and remote attendance possibilities

First Day: Monday the 5th of July 2021. Master Theses				
Auditorium 03 (rue de Houdain)				
09:00	09:30	Welcome speeches.		
		Prof C Renotte (Dean of the Faculty if Engineering of UMONS)		
		Prof P Dehombreux (Head of International Relations at the Faculty of Engineering of UMONS)		
		Prof P Lybaert (SMACCs coordinator)		
09:30	10:00	Master Thesis presentation		
		Yelizaveta Al-Dara, Electricity usage recommender system with limited input data		
		Supervizors: C. Tjortjis (IHU), Z. De Grève (UMONS), T. Piraut (WeSmart)		
10.00		Reviewer: F. Lecron (UMONS)		
10:00	10:30	Master Thesis presentation		
		Masum Ahmed, Current sensor fault-tolerant control of a grid-connected three-phase inverter		
		Supervizor: O. Deblecker (UMONS)		
		Reviewer: M. Pozzi (HWU)		
10.30	11.00	Coffee break		
		Master Thesis presentation		
11.00	11.00	Juan Alfau, Reinforcement learning for improving the operation of Renewable Energy		
		Communities		
		Supervizors: J-F Toubeau (UMONS), Z. De Grève (UMONS)		
		Reviewer: C. Berberidis (IHU)		
11:30	12:00	Master Thesis presentation		
		Paulina Fiscal, Smart cities' strategies to ameliorate environmental impacts of rapid		
		urbanization in Beijing, China		
		Supervizors: S. Koutra (UMONS), X. ZHANG (China University of Mining and Technology)		
10.00	40.00	Reviewer: L. Del Portillo (UPV/EHU)		
		LUNCH		
13.30	14.00	Master Thesis presentation Oleksandr Husiev, Analysis of a new District Heating Network for an existing		
		neighbourhood under a cost-effectivity perspective		
		Supervizors: A. Campos (UPV/EHU), J. Terés (UPV/EHU)		
		Reviewer: E. Dumont (UMONS)		
14:00	14:30	Master Thesis presentation		
		Bekbol Ismagulov, Analysis of imputation methods for data gaps in high resolution		
		energy smart meters in buildings		
		Supervizors: A. Erkoreka (UPV/EHU), V. Feldheim (UMONS), R. Garay (TECNALIA)		
		Reviewer: D. Karapiperis (IHU)		
14:30	15:00	Master Thesis presentation		
		Ruken Karakus, Assessing the Impact of Occupant Behavior on Energy Consumption		
		at Residential Buildings		
		Supervizors: X. Oregi (UPV/EHU), S. Koutra (UMONS)		
15.00	15.20	Reviewer: T. Lim (HWU) Coffee break		
		Master Thesis presentation		
13.30	10.00	Iuliia Maskova, Modeling and Simulation of a Local Energy Community using the IES-		
		ICL software. A techno-economic analysis		
		Supervizors: Z. De Grève (UMONS), J. Terés (UPV/EHU), R. Sterling (R2MSolutions)		
		Reviewer: W. Fruh (HWU)		
16:00	16:30	Master Thesis presentation		
		Moldir Mayligali,		
		Potential of occupancy prediction and zonal space heating controls in educational		
		buildings for reducing energy consumption in buildings in temperate climates: a case		
l		study in Spain.		

Supervizors: P. Chatzimisios (IHU), J. Terés (UPV/EHU) Reviewer: A. Campos (UPV/EHU) 16:30 17:00 Master Thesis presentation Irune Minguez, Estimation of the short-circuit contribution of distributed generation in modern transmission systems Supervizors: F. Vallée (UMONS), J. Sprooten (ELIA) Reviewer: J. Swingler (HWU)

Second Day: Tuesday the 6th of July 2021. Master Theses

Auditorium 03 (rue de Houdain)

09:00	09:30	Master Thesis presentation Abdulrahman Mohammed, Cost effectiveness analysis of ensuring ventilation rates to
		prevent COVID-19 propagation in a confined space
		Supervizors: A. Campos (UPV/EHU)
		Reviewer: V. Feldheim (UMONS)
09:30	10:00	Master Thesis presentation
		Kimji Pellano, Analyzing the robustness of deep learning classifiers for traffic sign
		recognition systems
		Supervizors: C. Berberidis (IHU), X. Siebert (UMONS)
		Reviewer: S. Dupont (UMONS)
10:00	10:30	Master Thesis presentation
		Peter Pusztai, The advantage of point-cloud derived tree modelling on urban greenery
		maintenance: Shortlisting dangerous trees, assessing ecosystem services
		Supervizor: J. Terés (UMONS), A Borcs (GreeHill Solutions)
40.00	44.00	Reviewer: C. Berberidis (IHU)
		Coffee break
11:00	11:30	Master Thesis presentation Sofia Rueda, Study towards the development of Brussels North district Positive Energy
		District (PED)
		Supervizor: X. Oregi (UPV/EHU), F. Zumbultas (City of Brussels, Smart City Office)
		Reviewer: S. Koutra (UMONS)
11:30	12.00	Master Thesis presentation
11.00	12.00	Shahin Sultana Eity, Rickshaw in Europe: Prospect for Smart Cities and Communities
		Supervizor: S. Koutra (UMONS), Z. De Grève (UMONS)
		Reviewer: J. Terés (UPV/EHU)
12:00	13:30	LUNCH
		Master Thesis presentation
		Bin Shamsuddin Syuqran Naim, Big Data Mining for Smart Cities: Real Estate Price
		Prediction using Time-series Analysis
		Supervizor: C. Tjortjis (IHU)
		Reviewer: J. Bottieau (UMONS)
14:00	14:30	Master Thesis presentation
		Rallou Taratori, Collaborative ecosystems for smart and sustainable development
		Supervizor: S. Koutra (UMONS), M. Pareja-Eastaway (Universitat de Barcelona, CRIT
		Research Group)
14.20	45.00	Reviewer: J. Terés (UPV/EHU)
14:30	15:00	Master Thesis presentation
		Orestis Trasanidis, <i>Decision making tool for smart cities</i>
		Supervizor: C. Tjortjis (IHU), J. Tzanidaki (ERTICO ITS Europe)
15:00	15.20	Reviewer: A. Erkoreka (UPV/EHU) Coffee break
		SMACCS Joint Programme Board Meeting (SMACCs JPB only)
17.30	19.00	SWACCS Joint Programme board weeting (SWACCS JPB only)

Third Day: Wednesday the 7th of July 2021. Visit

Visit of a Smart City/Smart District for the audience attending in F2F. More information coming soon. 18:00 19:30 SMACCS Academic Committee meeting

Fourt	h Day	: Thursday the 8th of July 2021. Seminars from guest lecturers			
-		3 (rue de Houdain)			
08:30	08:30 10:30 F2F seminar				
		Prof Guy De Weireld, Carbon Capture, utlilisation and storage			
		UMONS, Dept of Thermodynamics and Mathematical Physics			
		Abstract: coming soon			
		Coffee break			
11:00	12:00	Remote seminar			
		Dr Alvaro Campos, Energy Communities: Towards the democratization of the energy			
		system University of the Basque Country (UPV/EHU), Energy Engineering Department, ENEDI			
		Research Group			
		Abstract: There is a wide consensus on the need of transitioning from fossil fuel towards			
		renewable energy sources. As renewable energy technologies present specific characteristics			
		that make them very different to the incumbent sources, far from a mere technology			
		replacement, a window of opportunity is open towards a deeper transformation of the energy			
		system. For that aim, aspects such as size, property and decision making are of great			
		importance in order to assess the different alternative models that can be created from this			
		opportunity. Thus, while the European energy agenda is prioritizing an energy transition			
		agenda based on large RES megaprojects, we see how alternative concepts are being			
		developed bottom-up, from municipal to grassroots initiatives. This seminar aims to explore this new ways of understanding energy transition, covering the strength and opportunities of			
		this bet, as well as the main barriers and weaknesses that should be overcome to pass from			
		playing a trivial to a main role in the future energy system.			
12:00	13:30	LUNCH			
		Intake 2 Master Theses pitches			
		Five minutes presentations by the Intake 2 students about their Master Thesis which will be			
		developed next year. Detailed schedule coming soon.			
		Coffee break			
16:00	17:00	Remote seminar			
		Prof Saraju Mohanty, <i>Title coming soon</i>			
		University of North Texas, Dept of Computer Science and Engineering			
		Abstract: coming soon			
17:00	18:00	Remote seminar			
		Dr Alex MacLaren, We can design an autonomous solar-powered House of the Future			
		Heriot Watt University, School of Energy, Geoscience, Infrastructure and Society			
		Abstract: Heriot Watt University is the only UK university in the finals of the 'Solar Decathlon Middle East'- a global competition looking for innovation from students and industry and the			
		cutting-edge of low-carbon design and smart technology- for houses to be built in the UAE			
		(United Arab Emirates). Our student team, comprised of undergraduate, postgraduate and			
		research students, has been designing this house for two years. The design incorporates PCM			
		heat batteries, solar Bifacial PV, chilled ceilings, intelligent water use and recycling, and many			
		other innovative solutions, all connected to a smart home technology system which responds			
		digitally to climate and owner.			
		Come and hear the students talk about the work they have done and where it has taken them.			
		In December 2021 the house will be part of the international competition: and over the			
40.00	00.00	following months we'll be using it and the data from it as a 'living lab'- watch this space!			
18:00	23:00	Gala dinner (for F2F participants only)			
		Subject to sanitary situation, more information coming soon			

Fifth Day: Friday the 9th of July 2021. Seminars from guest lecturers, Intake 1 ceremo

Auditorium 03 (rue de Houdain) 08:30 09:30 Remote seminar Dr Aitor Urresti, Energy transition in islands and isolated areas University of the Basque Country (UPV/EHU), Energy Engineering Department, ENEDI **Research Group** Abstract: Power supply in islands and isolated areas is very different from that of the mainland. The small size of the area and its isolation, means that the main concerns of the power supply system are safety of supply and flexibility, while energy efficiency is placed on the background. This commonly implies that the power supply is based on small size power plants, that use fossil fuels. The supply of fossil fuels is also a big concern, not only for power generation, but also for other energy uses. The low efficiencicy of the power system, together with the high dependance on external supply, enforce the need for an energy transition in these areas, that will ensure a safer, more efficient and cleaner energy supply. In this seminar we will analyze the mean characteristics of the energy system of islands and isolated areas, using the example of the Balearic Islands in Spain, and we will learn the main keys that can enhance and accelerate the energy transition in these areas. 09:30 10:30 Remote seminar

Dr Joanna Tzanidaki, Urban Mobility - the future trends **ERTICO - ITS Europe, Director Innovation and Deployment** Abstract: coming soon 10:30 11:00 Coffee break 11:00 12:00 Remote seminar Prof Jakob Puchinger, Title coming soon Anthropolis Chair Holder, Senior Scientist at IRT-SystemX, Professor at Centrale Supélec Université Paris-Saclay Abstract: coming soon 12:00 13:30 LUNCH 13:30 14:30 F2F seminar Dr Cathy Crunelle, Title coming soon ENGIE LABORELEC, 'Future Home Lab' manager Abstract: coming soon 14:30 15:30 Remote seminar Dr Dimosthenis Ioannidis, R&I Infrastructures and DIHs ecosystems for enabling Smart Cities technologies development **CERTH (Centre for Research & Technology HELLAS)** Abstract: coming soon 15:30 16:00 Coffee break 16:00 18:00 Proclamation of Intake 1 student results and closing session