



Horizon 2020
European Union funding
for Research & Innovation



CaRePeat & Internet of Things School










26th September 2019 – 01st October 2019, Dublin City, Ireland


PROGRAM

In collaboration with:



2019	Wednesday 25/09	Thursday 26/09	Friday 27/09	Saturday 28/09	Sunday 29/09	Monday 30/09	Tuesday 01/10
Day Theme	Traveling Day Welcome Dinner	CaRe Peat General Assembly Meeting	Meet-up at Tyrrelsspass Castle Sensors for Climate Change	Meet-up at Porter's House Dublin City Centre on Robotics and Artificial Intelligence	Sighting to Wicklow Mountains	Internet of Things Evolution, Platforms and Architectures	Internet of Things Data and Smart City Applications
Location/ Time	Alpha Building Meeting Room	Alpha Building Meeting Room	Conference Room	Dublin city	Wicklow	Alpha Building Main Auditorium	Alpha Building Main Auditorium
10:00- 10:30	Morning Coffee	Morning Coffee	Morning Coffee	Morning Coffee	Morning Coffee	Morning Coffee	Morning Coffee
10.30- 11.30	Traveling Time	#CaRe Peat Project Session 1 Welcome by Terry Morley and Niall Ó Brolcháin  WP LT: peatland restoration and overall concepts WP T1: protocol and measurement (by Invitation only)	#CaRe Peat Cavemount bog  first site visit	IoT School Preparations and Setup at DCU Alpha Building	Tour to the Wicklow Mountains or a Medieval Castle – Full Day (Subject to Num. of participants)	#Welcome Message and Opening and Logistics #IoT School Session 1 #IoT Technology for Future Applications  Dr. Martin Serrano (Free Access)	#IoT School Session 5 #Open Data #CaRe Peat Project Niall Ó Brolcháin  #IoTFuture Applications Dr. Martin Serrano  (Free Access)

 2019	Wednesday 25/09	Thursday 26/09	Friday 27/09	Saturday 28/09	Sunday 29/09	Monday 30/09	Tuesday 01/10
Day Theme	Devices and Applications	Platforms and Architectures	Meet-up	Services and Middlewares	Sighting	Internet of Things in Single Market Applications and Semantic Interoperability	Internet of Things Science and Industrial Solutions
11:30-13:00	Traveling Time	<p>#CaRe Peat Project Session 2</p> <p>Niall Ó Brocháin</p>  <p>WP T2: socio-economic models and use cases</p> <p>WP T3: restoration plans pilots</p>	<p>#CaRe Peat Loncrow bog</p>  <p>second site visit</p> <p>Dr. Martin Serrano</p>  <p>#Citizen Science</p> <p>Air Quality Monitoring Mobile Lab Unit Demonstration</p> <p>(Free Access)</p>	IoT School Preparations and Setup at DCU Alpha Building	Tour to the Wicklow Mountains or a Medieval Castle – Full Day (Subject to Num. of participants)	<p>#IoT School Session 2</p> <p>Hyper-Connectivity IoT Platforms and Big Data Marketplaces</p> <p>Dr. Achille Zappa</p>  <p>(Free Access)</p>	<p>#IoT School Session 6</p> <p>#IoT Science: The Smart City Value</p> <p>Dr. Siobhán Clarke</p>  <p>Dr. Aqeel H. Kazmi</p>  <p>(Free Access)</p>
13:00-14:00	Lunch Insight Centre	Lunch	Lunch Tyrrelspass Castle	Lunch	Lunch	Lunch Alpha Foyer	Lunch Alpha Foyer
14:00-15:30	Traveling Time and Registration	<p>#CaRe Peat Project Workshop 1</p> <p>Sebastien</p>  <p>Workshop about measurement method/programme</p> <p>Carbon and peatlands workshop with focus on Irish pilot</p> <p>(Free Access)</p>	<p>CaRe Peat Project Workshop 3</p> <p>Workshop on Restoration plans of</p> <p>Natuurpunt, Natuurmonumenten,</p> <p>Lancashire Wildlife Trust and</p> <p>CNRS University of Orleans</p> <p>(4 x 45 min)</p> <p>(by invitation only)</p>	Meet-up on Data Analytics, Artificial Intelligence and Robotics (Subject to Number of Participants)	Tour to the Wicklow Mountains or a Medieval Castle – Full Day (Subject to Num. of participants)	<p>#IoT School Session 3</p> <p>#Security and Data Protection</p> <p>Federated Data Protection Security and Privacy using Trust and Reputation Management</p> <p>Basim Mahbooba</p>  <p>(Free Access)</p>	<p>#IoT School Session 7</p> <p>#IoT Industrial Applications</p> <p>#Device Data Collection and Global Data Integration</p> <p>#Analytics and Machine Learning</p> <p>#Privacy, Security and Trust in the Era of Hyper-connectivity</p> <p>(Free Access)</p>
15:30-16:00	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break	Coffee Break

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Day Theme	Devices and Applications	Platforms and Architectures	Meet-up	Services and Middleware's	Sighting	Internet of Things in healthcare and IoT Platforms Integration	Internet of Things Science and Application Domains
16.00-17.30	Arrival and Informal Get Together at Dublin City Centre	#CaRe Peat Project Workshop 2 Peatlands policy workshop Open Data Niall O'Brolchain  (Free Access)	#End of day Bus travels directly to Dublin airport and Dublin city	IoT School Preparations and Setup at DCU Alpha Building	Tour to the Wicklow Mountains or a Medieval Castle – Full Day (Subject to Num. of participants)	#IoT School Session 4 #Health Science and Behaviour Apps Session #Active and Healthy Ageing Dr. Achille Zappa  #Augmented vs Virtual Reality and IoT Session Lukasz Porwol  (Free Access)	#IoT School Session 8 #IoT Technology for Sustainable Future #Citizen Science Education and Public Engagement Activities Brendan Smith  Closing Take Overs and Future Activities Noel O'Connor  (Free Access)
18:30-Onwards	Dinner all together (Optional)	Dinner all together Washenwoman Restaurant	Dinner all together (Optional)	Social Event Location TBD Usually an Irish Restaurant/PUB	Sighting Tour	Dinner all together (Optional)	Social Event (Optional)

IoT•Forum

IoT European Platforms Initiative

the Internet of council things

OPENIoT

CREATE-IoT

ACTIVAGE PROJECT

Interreg North-West Europe Care-Peat

www.openiot.eu

www.create-iot.eu

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CaRe Peat and Internet of Things School

26 September – 01 October 2019, Dublin City, Ireland

INVITATION

The **2019 Internet of Things School** is an event organized by the OpenIoT consortium, ACTIVAGE, CREATE-IoT and the Interreg NWE CaRe Peat Projects following the EU IoT-Strategic Research and Innovation Agenda (2018-2020 IoT-SRIA) with focus on providing insights about Open Source Solutions, Service Openness and Semantic Interoperability for the Internet of Things.

“Internet Technologies for Sustainable Future”

OBJECTIVE

The **2019 Internet of Things School** is an international event for the different stakeholders involved in the IoT ecosystem, scientific researcher(s) across Europe and other parts of the world, open Source communities and developers and to any large enterprise or entrepreneurs (SME) / individuals interested to participate, contribute, develop and acquire the know-how about Internet of Things technology, Middleware platforms and services and Applications based on the Open source IoT middleware's.

In the **2019 Internet of Things School** are covered in depth a range of specialized Internet of Things technical related topics, from sensor networks, sensing data, stream data processing, methods and protocol implementation to service openness, interoperability, service scheduling, delivery, utility management, and their applications with focus on IoT horizontal solutions in multidisciplinary areas, (e.g. smart city, intelligent manufacturing, car2car communications, M2M, smart appliances, etc.)



WHAT TO EXPECT

Problem analysis (case-by-case) and resolution via direct support from the experts in the area of data management, distributed systems design, ontology engineering, semantic technologies and senior researchers.

Close collaboration and hands on work between academy and industry for sharing best, of both sides, experiences from using Open Source Platforms and middleware for the Internet of Things.

The problem resolution and deep analysis for possible extensions in response of the demands from developers and IoT solution providers and also from the open source community.

IoT SCHOOL FORMAT

2019 Open Internet of Things School is a unique opportunity to learn directly from technical experts and system developers about the status, progress and plans for Open Internet of Things trends and evolution. Open challenges in the area of Internet of Things are also part of the expected outcomes.

The Internet of Things School combines keynote talks lectures on fundamental and applied aspects of the Internet of Things with hands-on tutorials and experimentation, providing the participants with a solid understanding and experience to further advance research using Open source platforms, IoT middleware and cloud infrastructures and IoT technology.

WHY TO ATTEND?

The aims of the **2019 Internet of Things School** are:

To learn the design principles, core architectural components, basics of functionality and practical experience(s) about open source platforms, large Scale Self-organizing Cloud Environments and Internet of Things Applications, specific talks on specific topics are:

Design and Principles

- Overall aspects for Internet of Things.
- Core components and applied aspects for Open Source IoT Architecture(s).
- Service Openness and Semantic Interoperability principles.
- Recent advances in the IoT open source platforms landscape.
- Important research challenges and directions for semantic interoperability.

Technical and Hands-on

- Experimentally-driven IoT experience in the form of hands-on sessions.
- Resolution of specific Internet of Things-related problems.
- Know how on one of the flagship leading European IoT middleware(s).

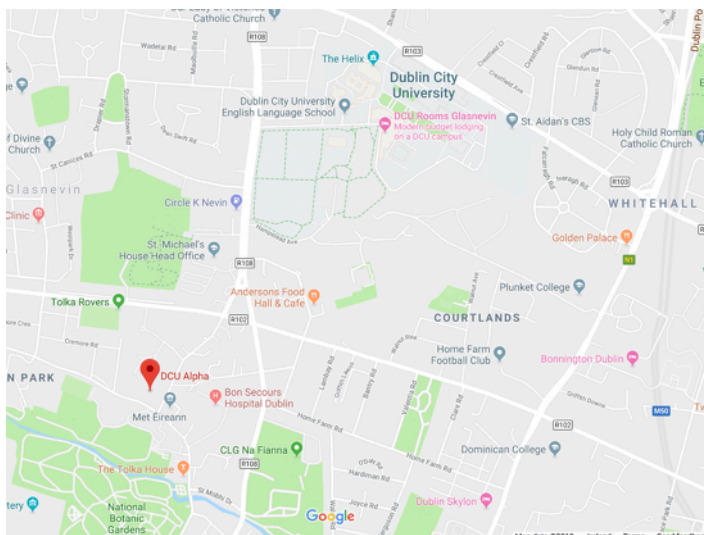
Networking

- Contact with experts in the IoT domain(s) at first class research facilities.
- Networking with IoT researchers and experienced scholars.
- Academic and industrial exchange.
- Opportunities to open discussions and round tables.
- Brainstorming, discuss and share your own ideas.
- Expand your skills and expertise on handling Open Source solutions.

THE VENUE

The venue is at DCU Alpha innovation Building

DCU Alpha Innovation Campus
11 Old Finglas Rd, Glasnevin,
Co. Dublin, Dublin, Ireland



THE COST

The Open IoT summer school participation is FREE of cost

1. Coffee Breaks: Sponsored by NUIG Insight-Galway
2. Lunch: (Monday 30th September to Tuesday 01st October)
Sponsored by CaRe Peat Project
3. Social Event (Monday 30th Sept), venue to be confirmed.
Sponsored by ACTIVAGE Project

NOTE: while the participation fee is FREE of cost, It is responsibility of the participants to make travel arrangements and accommodation (see below ACCOMMODATION for more details)

EVENT DATES

Internet of Things School

30 September – 01 October 2019, Dublin City, Ireland

OVERALL PROGRAM

The detailed agenda can be found at event's section: <http://www.openiot.eu>

REGISTRATION

On-site registration is possible, however it is advisable register using the following links:

 <https://www.meetup.com/Internet-of-Things-School-Meetup-Group/events/265234783/>

 <https://www.eventbrite.com/e/2019-internet-of-things-school-tickets-74545745331>



www.openiot.eu



www.create-iot.eu



www.activageproject.eu



www.nweurope.eu