

18th International Conference On Smart Living and Public Health

24 - 26 June 2020, Hammamet, Tunisia

*The Digital Technologies Impact on Public Health
in Developed and Developing Countries*

ICOST
2020

www.icost-society.org



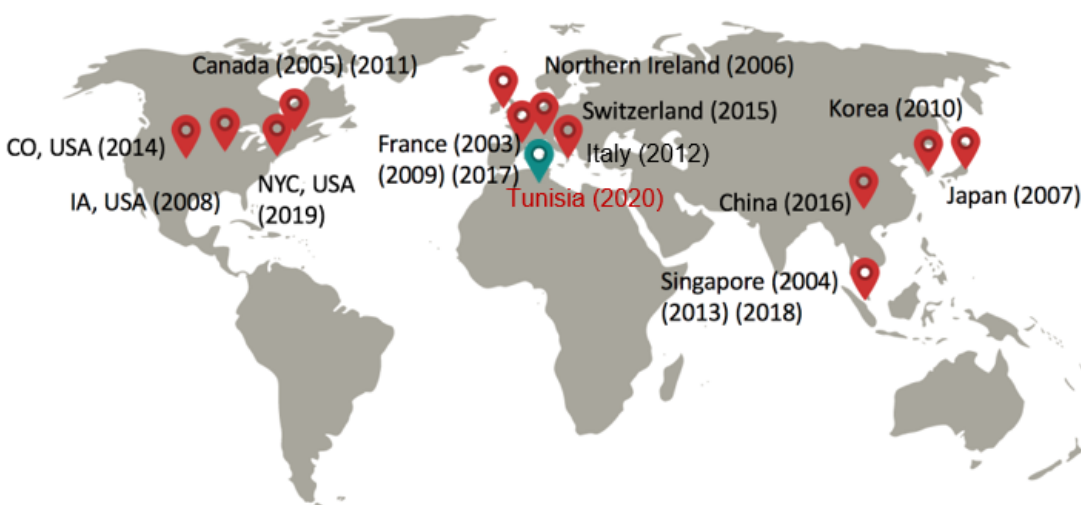
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After seventeen successful conferences held in France (2003), Singapore (2004), Canada(2005), Northern Ireland (2006), Japan (2007), Singapore (2008), France (2009), Korea (2010), Canada (2011), Italy (2012), Singapore (2013), USA (2014), Switzerland (2015), China (2016), France (2017), Singapore (2018) and USA (2019), **ICOST 2020 edition will be for the first time hosted in the African continent, in Hammamet, Tunisia, from 22 to 24 June 2020.** The conference will be organized by the Digital Research Center of Sfax, Tunisia (CRNS), Institut Mines-Telecom, Paris, France, and the Laboratory on Development and Control of Distributed Applications of Sfax, Tunisia (REDCAD). Our theme for this year will be "The Digital Technologies Impact on Public The Digital Technologies Impact on Public Health in Developed and Developing Countries."



ICOST provides a premier venue for the presentation and discussion of research in the design, development, deployment and evaluation of Artificial intelligence for health, Smart Urban Environments, Assistive Technologies, Chronic Disease Management, Coaching and Health Telematics systems.



Submitted papers will be blind reviewed by an international committee bringing together a multidisciplinary experts' renown worldwide in different fields of research (Engineering, clinical, public health, humanities and social sciences, etc.).

Accepted papers will be **published by Springer** as **Open Access**. **Selected papers** will be invited to submit extended version to be **published in a Special Issue of Sensors-MDPI Open-Access Journal (Impact Factor 3.031)**.

The conference features a dynamic program incorporating a range of technical, clinical, and industrial related keynote speakers, plenary oral sessions, and poster presentations along with prototypes demonstrations and technical exhibits. ICOST brings together stakeholders from clinical, PHOs (Public Health Organizations), academics, NGOs, policy makers, and industrial perspectives to explore how to utilize technologies to foster future health management and prevention, independent living, offering an enhanced quality of life. ICOST 2020 invites all participants to share and discuss their experiences and lessons learned.

We look forward to welcoming you to ICOST'2020 in Hammamet, Tunisia !!



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Important Dates



- Full Papers Submission: 10 February 2020
- Demos Proposals Submission: 24 February 2020
- Papers Acceptance Notification: 23 March 2020
- Demos Acceptance Notification: 6 April 2020
- Camera-Ready and Registration: 6 April 2020
- Conference: 24 – 26 June 2020

Scope and Aimes

Leveraging on the results of European R&D Framework HORIZON 2020 and in line with future HORIZON EUROPE framework programs priorities, ICOST provides a multidisciplinary venue focusing on analyzing impact of ICTs in public health and well-being of citizens all over the world. ICOST'2020 aims at bridging the gap between developed and developing countries facing health and well-being challenges with this edition theme **"The Digital Technologies Impact on Public Health in Developed and Developing Countries"**. ICOST 2020 is especially interested in receiving submissions focused on technologies, humanities and social sciences, clinical, and public health for an Enhanced Well-being and Health for all nations.

ICOST 2020 topics include, but are not limited to:

- AI for participatory and personalized health
- Deep learning for health and well-being
- Big Data analytics in e-health
- AI and Ethics
- Internet of Things (IoT) for smart living and e-Health
- Wearable Sensors/Integrated Micro/Nano Systems for well-being and e-Health
- Smart Urban Spaces and new Assistive Living Space Concepts in the Smart City
- Policy and Guidelines for Public Health 2.0 and Quality of Life in Smart City
- Urban Cities design for well-being and e-health
- E-Health and Chronic Diseases Management
- Assistive Technology for ageing and frail people
- Persuasive and Supportive Mobile e-Health
- Coaching and Urban Gaming for e-Health

- Innovative Therapeutic approaches and systems
- Virtual personal assistant for e-Health
- Personal Robotics and smart Wheelchairs for e-health
- Collaborative robotics (Cobots)
- Tele-Assistance and Tele-Rehabilitation
- Smart Homes/Home Networks/Residential Gateways
- Context Awareness/Autonomous Computing
- Modeling of Physical and Conceptual Information in Smart Environments
- Human-Machine Interfaces
- Health in All Policies (HiAP)
- Public health and urban Data Collection and Processing
- Preventive and predictive medicine
- Participatory Tele-health systems
- Translational medicine for Health and Well-being
- Protective systems/devices against common and emerging infectious diseases.
- Social acceptance/Privacy/Data protection/Security Issues
- Health Technology Assessment and Impact Analysis
- Human Factors, Ethics and Usability of e-health solutions
- Trusted systems and verification for health and wellness

ICOST 2020 invites participants to present and discuss their experiences in the understanding, design, development, test-beds deployment, and evaluation of technologies that demonstrate significant contributions in the areas of smart environments, public health policies, chronic disease management, and assistive technologies focused on indoor living spaces (e.g., homes, nursing homes and assistive living facilities) as well as the outdoors (e.g., urban smart spaces or the entire smart city).

Proposals for special sessions or plenary panels addressing any of the following specific topics are especially welcome:

- Studies detailing large-scale service deployment and impact evaluation
- The application of cost-effective and readily available 'everyday' technologies to support people with chronic conditions and others with cognitive disabilities at home, school or work
- Health economic evaluation of technology-based solutions
- Challenges for smart living environments and inclusive communities
- Societal impact and policy formulation
- Technology solutions to inspire policy makers

For interested authors

Volumes published as part of the Lecture Notes in Computer Science (LNCS) series are indexed by the EI Engineering Index (Compendex and Inspec databases), Scopus and ISI Conference Proceedings Citation Index - Science (CPCI-S), included in ISI Web of Science. The source can be found here:

<http://www.springer.com/computer/lncs?SGWID=0-164-6-1068921-0>

ICOST conference is also ranked by the COmputing Research and Education (CORE) Conference portal. Details can be found here: <http://www.core.edu.au/>

Selected papers will be invited to submit an extended version to a dedicated ICOST'2020 special issue in Sensors Journal (Impact Factor 3.031). Source can be found here:

<https://www.mdpi.com/journal/sensors>

Papers submission

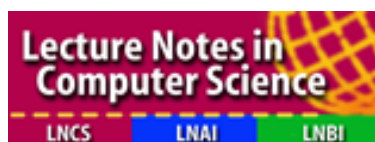
There will be a combination of presentations including scientific papers, posters, case studies, research and projects exhibits and technology demonstrations. Prospective authors are invited, in the first instance, to submit papers for oral presentation in any of the areas of interest for this conference as well as proposals for Special Sessions. The submission for evaluation should be in the form of a 12 pages paper written in English.

Accepted papers will appear in the conference proceedings to be published by **Springer in Open Access. No registration extra fees will be applied for Open Access publication.** Submitted papers shall not exceed 12 pages and must follow the guidelines found on the conference website:

<http://www.icost-society.org/authorinstructions.html>

Submission: Papers must be submitted electronically in PDF and Word/Latex format at the following address:

https://easychair.org/conferences/?conf=icost_2020



Demos proposals Submission

Researchers and industry experts with significant contributions in the areas of smart cities, urban design, smart homes, health telematics, chronic disease management and assistive technologies are encouraged to participate and present research prototypes or innovative systems to ICOST participants. ICOST 2020 invites interested researchers and industry experts to send a description of the system that will be demonstrated and a short presentation of the research teams/industrial involved in the demo. The description should be limited to one page and should be submitted to: icost_2020@easychair.org.

Authors interested in providing a short demonstration in conjunction with paper presentations should append a section in their papers with the heading: 'demonstration description' detailing the scenario to be demonstrated.

The organization committee will review the proposals and select a limited number of demos. ICOST will provide free space for nominated demos pending that presenters are registered as regular participants to the conference. Demos' presenters will be responsible for bringing and setting up any computer equipment needed for the demo.

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