



### Technological & Architectural Frameworks for Societal Automation

#### Call for Papers for a Special Session

<p><b>Title</b></p> <p><b>Track</b></p> <p><b>Organizers</b></p>	<p><b>SS02</b></p> <p><b>Recent Advances in Technologies for Collective Ambient Intelligence in Smart Cities</b></p> <p><b>T10 - Development of Ultra Complex Man-Made Engineering Systems</b></p> <p>Prof. Ioannis Chatzigiannakis Sapineza University of Rome via Ariosto 25, 00185 Rome, Italy Email: ichatz@diag.uniroma1.it ; Tel: +39 0677274073</p> <p>Prof. Irene Mavrommati Hellenic Open University Parodos Aristotelous 18, 26 335, Patra, Greece Email: mavrommati@eap.gr ; Tel: +30 2610 367300</p> <p>Prof. Andrea Vitaletti Sapineza University of Rome via Ariosto 25, 00185 Rome, Italy Email: vitaletti@diag.uniroma1.it ; Tel: +39 0677274026</p>								
<p><b>Description</b></p> <p><b>Author's Schedule</b></p>	<p><i>Background</i> - We are going through a new phase of computing evolution that involves processing capabilities in everything: objects, places, people, and processes. Devices, networks, and cloud services are being merged with people and their activities—individuals or groups—to provide new and exciting possibilities in everything we do. Such highly interconnected computational components act autonomously and intelligently through the use of software agents that seamlessly integrate humans in the loop, creating new opportunities for intelligent systems where humans and agents interact continuously. In crowd-powered systems, traditional algorithmic computing gives way to data flowing through machines and exchanged with people. The notion of crowd-algorithms is a consequence of such systems. Decisions are being made based on what data is telling us. New technologies allow the interpretation of data without demanding our full attention. New methods enable the integration of data with our daily activities without requiring us to deviate from our usual behaviour.</p> <p><i>Aim</i> - The aim of this Special Session is to bring together researchers and practitioners from the fields of science, engineering, and design working towards the vision of Collective Ambient Intelligence. Current work on Ambient Intelligence is focusing more on how individual systems/devices are offering smart services individually but are ignoring the collective (set of) devices that we use and carry around us and how information from them could be coordinated to be combined to achieve common goals.</p> <table border="1" data-bbox="571 2033 1474 2101"> <tr> <td><i>Submission deadline</i></td> <td><i>May 12, 2019</i></td> <td><i>Acceptance notification</i></td> <td><i>June 3, 2019</i></td> </tr> <tr> <td></td> <td></td> <td><i>Final papers due</i></td> <td><i>June 30, 2019</i></td> </tr> </table>	<i>Submission deadline</i>	<i>May 12, 2019</i>	<i>Acceptance notification</i>	<i>June 3, 2019</i>			<i>Final papers due</i>	<i>June 30, 2019</i>
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