Background: The onset of the 4th Industrial Revolution and emerging Societal Automation initiatives deeply rooted in advancing Information, Communication, and Computing has been heralded by a numerous visionary initiatives sponsored and advanced by industry, private consortia, and governments alike, all over the industrialized world – just to mention initiatives revolving around urban automation such as Smart Cities. The household concepts of the Internet of Things and Cyber-Physical Systems provide conceptual and architectural frameworks for these initiatives. The functional and technical scope of these initiatives is broad. Various application domains intersect at the crossroads of the initiatives. Vision is necessary to carve the image of the initiatives. But insufficient for their realization. At the root of the success in implementing and deploying visions is technology - a tangible "realization" of solutions, which arise from innovative thinking. Technology and arising solutions are fast penetrating practically all areas and facets of our life; from pocket and wearable automation, to robotic companions, to home and building automation, to energy and transportation systems, to city/urban automation. In not so distant future space colonies. Societal Automation, as this rapidly expanding human-centered technology penetration of our life can be called, has many arms. But primarily striving to improve quality of our life by providing comfortable and safe living habitat and working conditions without degrading the surrounding natural environment, in addition to fulfilling other societal requirements and needs. Themes of Internet of Things and Cyber-Physical Systems and applications are well represented in the body of articles and papers published in journals and presented at conferences. However, the presented ideas and actual developments are far from disruptive. The heralded well over ten years ago a rapid evolution of man-made engineering systems drawing from the IoT and CPS paradigms has been slow on uptake. This situation is acutely reflected in the unwillingness of the Venture Capital firms to fund small incremental developments which offer little prospects for major return on investment. It becomes increasingly clear that the lack of architectural and technological frameworks to base future developments on leads to this stalemate. It is also evident the vision of what is to be achieved is not in place and clear.

Summit of Experts: At the core of the Conference is the Summit of Experts which has the format of keynotes, invited plenary lectures, panel and plenary discussions, and public lectures. The upcoming Summit is going to have a focus on Large-Scale Ultra-Complex (Engineering) Systems with emphasis on the design aspects. Until now that area was of interest to military, space agencies, software industry, etc. Understandably, due to the scale and complexity. However, the interest starts emerging in the civilian programs. Particularly in the area of Smart Cities and Cities of the Future. There are numerous reports of plans to design from scratch Smart Cities to be implemented in different parts of the world. A major challenge as there are no methodologies, no tools for that kind of systems available to civilian programs. Technology development tends to be expensive. Funding is typically provided by public and private sectors. The motivations may differ. Public good, or profit. Irrespective, investors need to know the cost of development. Private and public sectors, in addition to the profit projections, need to consider a range of financial and social issues before committing. The Summit of Experts will delve also into the economics of innovation and new technology. Viewed particularly in the context of Large-Scale Ultra-Complex (Engineering) Systems.

Aim: The Societal Automation conference series looks in a holistic way at the Societal Automation domain to identify what solutions, technologies, architectural frameworks, and design tools are going to be needed in the design, development and deployment of future human-centered life-quality improving solutions and systems. The second edition of the Conference on Societal Automation will offer an unique combination of contributed papers with the Summit of Expert sessions. A mix of technical and economic topics from the Societal Automation related diverse application domains and Large-Scale Ultra-Complex (Engineering) Systems area's emerging issues.

Topics within the scope of the conference include the following thematic technical Tracks:

- Electronic Systems in Societal Automation
- Communication in Societal Automation
- Computing in Societal Automation
- AI, Machine & Deep Learning in Societal Automation
- Sensors in Societal Automation
- Road to Technological Singularity
- Architectural Frameworks for Societal Automation – IoT/CPS, & Applications
- Development of Large-Scale Ultra-Complex Engineering Systems
- Smart Cities & Cities of the Future
- Socio-Technical Aspects of Societal Automation
- Economics of Innovation and New Technology

Submission of Papers: The working language of the conference is English. Different types of submissions are solicited. Please see: https://sac2020.org/types-of-submissions Manuscripts must be submitted electronically in PDF format, according to the instructions contained in the Conference web site.

Registration & Presentation: Authors of accepted papers must ensure that their papers will be presented at the conference. At least one main (non-student) conference registration is mandatory for each accepted paper.

Further Information: SAC2021 Conference Secretariat: Email: contact@sac2021.org

Paper Acceptance & Publication: All submissions will be peer reviewed and rated by merits, and all the accepted papers will be published in the SA2021 conference Proceedings. Conference content will be submitted for inclusion into IEEE Xplore, Scopus as well as other Abstracting and Indexing (A&I) databases.

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