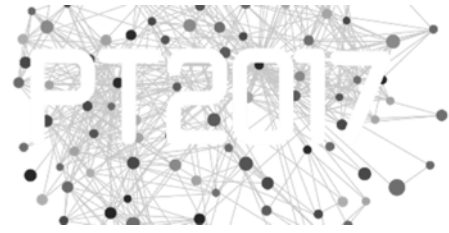


4th International Academic Conference



PLACES AND TECHNOLOGIES 2017
KEEPING UP WITH TECHNOLOGIES IN THE CONTEXT OF URBAN AND RURAL SYNERGY
Book of Conference Proceedings

Sarajevo, Bosnia and Herzegovina, June, 08th - 09th, 2017



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PLACES AND TECHNOLOGIES 2017

KEEPING UP WITH TECHNOLOGIES IN THE CONTEXT OF URBAN AND RURAL SYNERGY

08 & 09 JUNE

SARAJEVO

BOSNIA AND HERZEGOVINA

BOOK OF PROCEEDINGS

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BOOK OF CONFERENCE PROCEEDINGS

Editors:

Dženana Bijedić, Aleksandra Krstić-Furundžić, Mevludin Zečević



Sarajevo, Bosnia and Herzegovina

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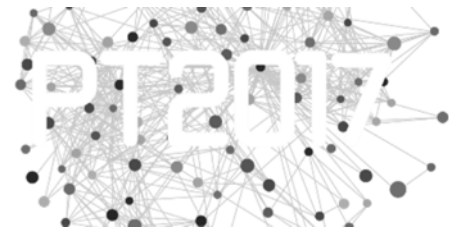
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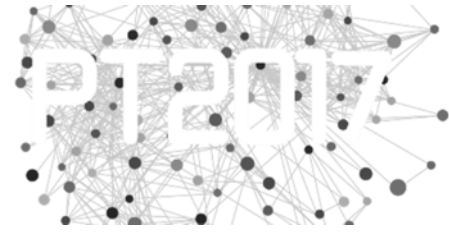
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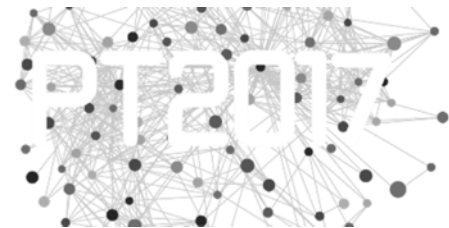
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PLACES AND TECHNOLOGIES 2017

4th International Academic Conference

KEEPING UP WITH TECHNOLOGIES IN THE CONTEXT OF URBAN AND RURAL SYNERGY

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University of Sarajevo, Faculty of Architecture, Bosnia and Herzegovina

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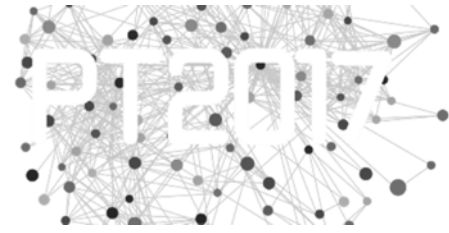
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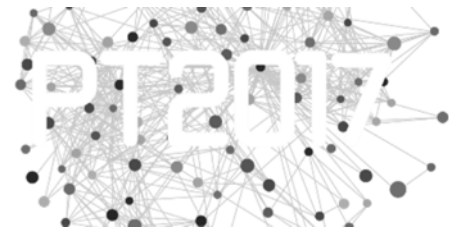
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ABOUT

The conference examines the formation and presentation of knowledge on technologies and the environment, as well as ethical considerations and potential risks, developing solutions, expertise and discussions with respect to one of the emerging spatial development concepts – urban and rural synergy. The stated objective points to the necessity of a multidisciplinary approach to this matter, identification and establishment of relationships between issues of technological development, environmental protection, economic and social change. Consequently the conference program and research are based on the knowledge of several academic disciplines: engineering and technical sciences, humanities, natural and social sciences. The main tasks of the conference are defined in order to discuss the issues related to:

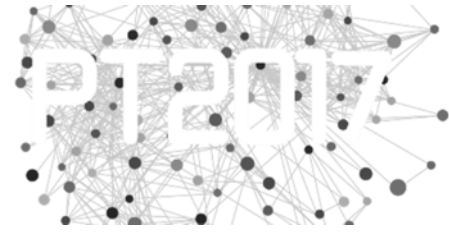
- the future of society and places;
- creation of sustainable areas and its facilities and infrastructure in line with needs of inhabitants;
- development of institutions and regulations with an aim of creating safe, sustainable, efficient, imageable and liveable, healthy environment; and
- creation of favourable conditions for the advancement of innovation to achieve a good quality of life.

Having in mind the conference goals and objectives, we wish to research and understand from the critical aspect the importance and role of technology in design and creation of sustainable places, in the cities, as well as, in the countryside through:

- Technological perspective
- Science perspective
- Security perspective
- Built environment perspective
- Social perspective
- Government perspective
- Economic perspective

TOPICS

- Sustainable communities and participation
- Social networks – inherited and created
- Resilience of places
- Urban and rural places towards human comfort, health and inclusion
- Biomimicry and smart innovations to human challenges
- Geography as development factor
- Climate change
- Image, identity and quality of place
- Cultural patterns and sensitivity
- Architecture and building technologies
- Sustainability lessons from vernacular architecture
- Tourism for urban-rural synergies
- Agriculture as development force
- Environmentally friendly modes of transport and commute



KEY NOTE SPEAKERS

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Editor in Chief of the Energy and Buildings, Past Editor in Chief of the Journal of Advances Building Energy Research, Associate Editor of the Solar Energy Journal and actual or past Member of the Editorial Board of the International Journal of Solar Energy, Journal of Buildings and Environment, Journal of Sustainable Energy, Journal of Low Carbon Technologies, Journal of Open Construction and Building Technology, Sustainable Cities and Society and of the Journal of Ventilation. Editor of the Series of Book on Buildings, Energy and Solar Technologies published by Earthscan Science Publishers in London.

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(1968) Architect, PhD in Technology of Architecture, full time associate professor at the Faculty of Architecture of the Sapienza University of Rome, Department Planning, Design, Technology of Architecture. She teaches Technology of Architecture since 2004. Since 1995 she has carried research and consultancy work through the University and other institutions national and international. She has published various papers, articles and books and she made many feasibility design studies in the field of architecture for health. She has been Member of Teachers College PhD in "Regeneration and recovery of the settlements" (2004-10); since 2013 she is member of the Teachers College PhD

“Engineering-based Architecture and Urban Planning”. Teaching co-ordinator, member of scientific board and teacher of the II level Master in Architecture for Health for architects and engineers comes from Developing and emerging countries co-financed by the Italian Ministry Foreign (since 2004).

From 2014 she is director of the Master in Architecture for Health. Since 2004, she is member of Member of Interuniversity Research Centre TESIS, Systems and technologies for health care buildings. She has selected to participate as visiting professor by Basilesu programme at the Faculty of Architecture of Belgrade (2012) and Faculty of Architecture of Sarajevo (2014). She has different responsibilities inside the Faculty and Department as member of the board of studies and Erasmus Programme for degree in Architecture UE. She has the scientific responsibility of executive agreements with foreign Faculties of Architecture (Belgrade, Ethiopia, Guatemala, Mozambique, Paraguay).

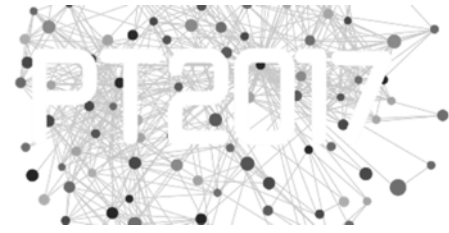
Dr Vesna Mikić, *University of Zagreb, Faculty of Architecture, Zagreb, Croatia*

Professor at the Faculty of Architecture in Zagreb, Department for Architectural Design. She realizes her architectural scientific-research opus through two basic domains: in her scientific and research work, she primarily focuses on topics from contemporary architecture, particularly on modernity and research conducted within her doctoral dissertation “Antun Ulrich's opus, the classicity of the Modern Era”, and persistently enhances both her teaching and her primary research of architectural phenomena which provide the initial ideas of her own architectural opus.

She contemplates on the development of modernity by relying on postulates of classical architecture, exemplified in classicism. In that domain, she confirms her research theses by projects designed for public spaces, squares, parks; therefore, urbanist-architectural entireties belonging to architectural assignments of highest ranking. Research within that domain confirm the fundamental postulate on evolution from classicism to international style as well as the idea that classicism is inherent to modernism.

The second segment of her work accentuates regional sensibility of contemporary architecture development in the spaces of Croatian regions. She particularly researches the multilayeredness of processes of preservation of Croatian heritage and sustainable development of the natural and cultural space of the Croatian cultural landscape. Those are researches which she strives to build in within her teaching process; particularly the industry to sensitize the young generation of students for regional topics and the culture of the Croatian space.

Apart from pedagogical and scientific, she also does professional work. In her professional work Mikić shows interest for a wide range of topics and problem areas, ranging from cooperation in complex architectural-urbanist complexes as associate in projects of Professor Miroslav Begović, PhD, to realization and participation in the construction of public and housing architecture, in big projects, and shows particular interest for projects of social and societal standard (institutions which deal with victims of family violence).



WORD OF THE P&T_2017 CONFERENCE DIRECTORS

It is a great pleasure and honour that we are entering the fourth season of the International Academic Conference on Places and Technologies event this June 2017, thus extending the cycle of this important event. The 2017 Conference had three precedents: the first conference was held in 2014 in Belgrade at the Faculty of Architecture – University of Belgrade, the second was held in 2015 in Slovenia in collaboration with the University of Ljubljana, with the main topic concerning the Healthy Cities and the third was held in 2016 in Belgrade and dedicated to the technologies to create cognitive city. In addition to very reputable scientific conference proceedings, it is important to point out some other valuable results. Two notable results from 2014 Conference that include valuable publications *Keeping up with technologies to improve places* published by Cambridge Scholar Publishing and Elsevier's *Energy and Buildings Special Issue on Places and Technologies*, which were based upon the evaluation of the most outstanding submitted papers from our Conference. Regarding the results of the Conference in 2016, in the process of publication are the book *Keeping up with technologies to create cognitive city by highlighting its safety, sustainability, efficiency, imageability and liveability*, the special issue of Elsevier's international journal *Energy and Buildings* and *Facta Universitatis*, Series Architecture and Civil Engineering Special Issue.

The fourth Conference is in collaboration with the University of Sarajevo. The focus of the conference is the synergy between urban and rural. Aware of the fact that there are a number of different connections and interactions between rural and urban areas, the conference sets the context of urban and rural synergy as a common thread that connects the enormous diversity of connections and interactions between the given places. The rural-urban linkages to promote development can only synergistically stimulate the growth of certain places, but certainly through and with people who live and work there. In this regard the conference emphasizes the importance of networking with the specifics of given environment, social, economic, technological and institutional realities of urban centres and their surroundings.

The conference examines the formation and presentation of knowledge on technologies and the environment, as well as ethical considerations and potential risks, developing solutions, expertise and discussions with respect to one of the emerging spatial development concepts – urban and rural synergy. The stated objective points to the necessity of a multidisciplinary approach to this matter, identification and establishment of relationships between issues of technological development, environmental protection, economic and social change. Consequently the conference program and research are based on the knowledge of several academic disciplines: engineering and technical sciences, humanities, natural and social sciences.

4th International Academic Conference
PLACES AND TECHNOLOGIES 2017

KEEPING UP WITH TECHNOLOGIES IN THE CONTEXT OF URBAN AND RURAL SYNERGY

08 & 09 JUNE

SARAJEVO

BOSNIA AND HERZEGOVINA

BOOK OF PROCEEDINGS

The papers will be published in the post conference book of proceedings “Keeping up with Technologies in the Context of Urban and Rural Synergy”, the best of papers will be published in the Scientific Journal Facta Universitatis, Series Architecture and Civil Engineering, as well.

Since the founding conference in Belgrade, there is a visible growing interest in the Places and Technologies Conference encountering support in the region and beyond. All this has qualified the conference as a traditional event. Through commitment to specific topics and the quality we have the ambition to keep its importance among the many European conferences.

Aleksandra Krstić-Furundžić

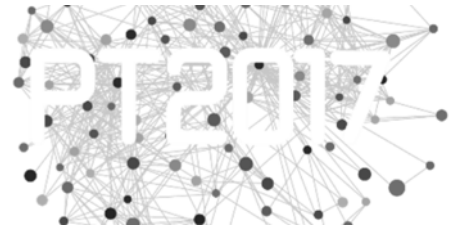
Director of the P&T Conference

PhD, Professor, University of Belgrade, Faculty of Architecture, Serbia

Dženana Bijedić

Regional Director of the P&T Conference

PhD, Professor, University of Sarajevo, Faculty of Architecture, B&H



OPENING AND SPECIAL PAPERS' TOPICS



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OPENING AND SPECIAL PAPERS' TOPICS

URBAN AND RURAL CONNECTION BETWEEN GLOBAL AND LOCAL – BETWEEN ROLE AND REALITY. WHAT DESIGN CAN DO TO ACHIVE THE SYNERGY?

Francesca Giofrè,

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ABSTRACT

Urban and rural terms have different significances with reference to the context and their relationship have changed over time according to socio-political changes, always in a dichotomous way. The latest studies overpass this dichotomy and propose multi-sectoral approach focusing on patterns of territorial continuity, which goes beyond boundaries.

On the international level, Habitat II (1996) argued that "Rural and urban development are interdependent. In addition to improving the urban habitat, we must work to provide adequate infrastructure, public services, and employment opportunities to rural areas to increase their attractiveness, develop an integrated network of settlements, and minimize rural-to-urban migration. Small and medium-sized towns need special focus". Nowadays in a globalized era, where the South and the North are interdependent, and where cities are growing exponentially, the Sustainable Development Goals, do not consider the rural but they have a strong focus on urban dimension. It is true that in 2010 more people live in urban than rural areas, and that in 2030, 60% of the eight billion inhabitants will live in cities, and moreover, in cities 70% of the economy is concentrated; 60% of the global energy consumption; 70% of the greenhouse gas emissions and 70% of the global waste. This is even more true in Europe, where 70% of the population live in urban area, with a polycentric model of cities of which Italy is a unique example (ASvis, 2016).

The author is however convinced that a step back should be undertaken, and that the policies of the countries should be geared towards achieving a better synergic balance between urban and rural, thus reducing the pressure on cities, as promoted by Cork 2.0 European Conference on Rural Development (2016). In addition, the author discusses some examples of revitalization projects in rural areas in Italy that have contributed to this goal.