

5TH INTERNATIONAL CONFERENCE „ECOLOGY OF URBAN AREAS 2016“



FACULTY OF TECHNICAL SCIENCES "MIHAJLO PUPIN" ZRENJANIN,
UNIVERSITY OF NOVI SAD, REPUBLIC OF SERBIA
with partners
POLITEHNICA UNIVERSITY, TIMISOARA, ROMANIA
OBUDA UNIVERSITY, BUDAPEST, HUNGARY
MOGILEV STATE UNIVERSITY OF FOOD TECHNOLOGIES, BELARUS



AGENDA

Friday, 30th, September 2016, Technical Faculty "Mihajlo Pupin", Zrenjanin, Republic of Serbia		
9.30-10.00	Registration of the participants	
10.00-10.15	Opening of the 5 th international conference "Ecology of urban areas 2016"	Milan Pavlović, Chairmen of the Organizing Committee, University of Novi Sad, Serbia
10.15-11.45	Invited Keynote speakers Chairmans: Hosam E.A.F. Bayoumi Hamuda / Ioana Ionel / Milan Pavlović	
	Ioana Ionel	PRACTICE AS THE BASIS OF AN ENGINEERING DEVELOPMENT, Ioana Ionel, Mircea Dorin Vasilescu, Liliana Tulcan, Adelina Han, Raul Ionel, Nicolina Pop, Ioan Groza, Raul Ionel, Ramon Mihai Balogh, Dan Stepan - University Politehnica Timisoara
	Hosam E.A.F. Bayoumi Hamuda	GLOBAL ISSUES AND URBANIZATION: RELATION BETWEEN GLOBAL SOCIETAL CHALLENGES AND SOIL SECURITY FOR SUSTAINABLE DEVELOPMENT Hosam E.A.F. Bayoumi Hamuda - Óbuda University, Hungary
	Francisc Popescu	EMISSION DISPERSION MODELLING OF A COAL FIRED 420 T/H STEAM BOILER IN A COAL/BIO MASS CO-FIRING SCENARIO. AIR QUALITY ASSESSMENT Francisc Popescu - University Politehnica Timisoara, Bogdana Vujic, Milan Pavlovic - University of Novi Sad, Serbia, Adrian Eugen Cioabla - University Politehnica Timisoara, Aleksandar Djuric - University of Novi Sad, Serbia, Adrian Tenchea - Timisoara Regional Directorate of Legal Metrology, Romania
11.45-12.00	Coffee break	
	Adrian Eugen Cioabla	COMPARATIVE RESULTS IN ANAEROBIC FERMENTATION OF SOME AGRO-INDUSTRIAL RECIPES INSIDE A PILOT INSTALLATION Adrian Eugen Cioabla, Dorin Lelea, Francisc Popescu, Gavrilă Trif-Tordai - University Politehnica Timisoara, Faculty of Mechanical Engineering, Romania, Alina Gabriela Dumitrel - University Politehnica Timisoara, Faculty of Industrial Chemistry and Environmental Engineering, Romania
12.00-13.00	Nicolae Stelian Lontis	FILTERING SYSTEM IN URBAN AREA Ioana Ionel - University Politehnica Timisoara, László Makra - University of Szeged, Milan Pavlovic - University of Novi Sad, Daniel Bisorca, Ramon Mihai Balogh, Nicolae Stelian Lontis - University Politehnica Timisoara, Aleksandar Đuric - University of Novi Sad
	Adriana Raluca Wächter	CO-SUBSTRATES INFLUENCE ON METHANE GENERATION THROUGH WASTE WATER ANAEROBIC DIGESTION Adriana Raluca Wächter, Reinhold Wächter, Ioana Ionel - University Politehnica Timisoara
	Mladenka Novaković	EFFICIENCY OF ZnO/SnO ₂ NANO POWDER CATALYST FOR PHOTODEGRADATION OF PHARMACEUTICALLY ACTIVE WATER POLLUTANTS Mladenka Novaković, Veselin Bežanović, Tamara Ivetić, Ivana Mihajlović, Goran Štrbac, Dragana Štrbac, Maja Đogo - University of Novi Sad
	Nikola Mišić	ANALYSIS OF THE IMPACT OF TRAFFIC DENSITY ON AIR QUALITY AT TOLL BOOTH NAIS ON HIGHWAY E75 Nikola Mišić, Aca Božilov, Ivica Stamenković, Amelija Đorđević, Nenad Živković, Ljiljana Živković - University of Nis
13.00-14.30	Lunch	
14.30-16.00	Žarko Vranjanac	ENVIRONMENTAL IMPACT OF RECYCLING ACCUMULATORS AND BATTERIES WASTE Žarko Vranjanac, Nenad Živković, Ljiljana Živković - University of Nis
	Miljan Šunjević	RESHAPING OF HUMAN CONSCIOUSNESS THROUGH SUSTAINABLE DORMITORY Miljan Šunjević, Mirjana Vojinović-Miloradov, Darko Reba, Ivana Mihajlović - University of Novi Sad
	Vladan Paunovic	SPECIFICS OF EDUCATION OF LOCAL GOVERNMENT HUMAN RESOURCES FOR THE DEVELOPMENT OF URBAN ECOLOGY Neda Nikolic, Vladan Paunovic, Aleksandar Dragasevic - University of Kragujevac
	Vladan Paunovic	SIGNIFICANCE AND ROLE OF INFORMAL PRACTICAL EDUCATION OF SCHOOL POPULATION AS A FACTOR FOR DEVELOPMENT OF URBAN ECOLOGY Neda Nikolic, Vladan Paunovic, Aleksandar Dragasevic - University of Kragujevac

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	Boris Obrovski	MEASUREMENT OF FREE CHLORINE IN SWIMMING POOL WATER BY FIBER OPTIC SENSOR Boris Obrovski , Ivana Mihajlović , Jovan Bajić , Mirjana Vojinović Miloradov , Dragan Adamović , Branislav Batinić , Miloš Živanov - University of Novi Sad
	Kosta Mitreski	ANALYZING THE LEVEL OF HIGH TROPOSPHERC OZONE DURING THE SUMMER 2013 IN SKOPJE, R.MACEDONIA Bobi Stoimenovski , Kosta Mitreski , Andreja Naumoski , Danco Davcev - Cyril and Methodius University in Skopje
	Josip Naglić	SMART HOMES AND SECURITY ISSUES Ana Štajminger - NTNU Gjøvik, Sustainable Manufacturing student, Norway, Josip Naglić - Natural Science and Graphics School, Rijeka, Croatia
16.00	Coffee break and Poster session	
18.00	Conference closure	
19.00	Dinner	

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Poster session

N° Chairman: Vjekoslav Sajfert		
<u>1</u>	CERTAIN MODELS IN THE ANALYSIS OF AIR POLLUTION	Stevo K. Jaćimovski, Academy of Criminalistic and Police Studies, Belgrade, Vjekoslav D. Sajfert, University of Novi Sad, Technical Faculty "Mihajlo Pupin", Zrenjanin, Jovan P. Šetrajčić, University of Novi Sad, Faculty of Sciences, Department of Physics, Novi Sad, Slobodan Miladinović, Academy of Criminalistic and Police Studies, Belgrade
<u>2</u>	ENVIRONMENTAL EDUCATION OF PUPILS IN TECHNOLOGICAL AND INFORMATION TECHNOLOGY TRAINING	Ivan Tasić, Jelena Jankov, Marjana Pardanjac, Erika Eleven, University of Novi Sad, Technical Faculty "Mihajlo Pupin", Zrenjanin, Republic of Serbia
<u>3</u>	ACCIDENTAL EVENTS OF PRIMARY SHORT-CIRCUIT OF ELECTRICAL INSTALLATIONS – FORENSIC ANALYSIS	V.M.Zorić, University of Novi Sad, Faculty of Sciences, Ministry of Interior Affairs of Serbia, CPD-National Forensic Center Belgrade, S.S. Dmitrašinović, University of Novi Sad, Faculty of Sciences, V.Petrović, Higher Technical School of Professional Studies in Novi Sad, M. Vojinović Miloradov, I. Mihajlović, University of Novi Sad, Faculty of Science, V.Sajfert, University of Novi Sad, Technical Faculty Mihajlo Pupin, Zrenjanin
<u>4</u>	THE APPLICATION OF EDUCATIONAL EQUIPMENT FOR WASTEWATER TREATMENT	Marina Šćiban, Vesna Vašić, Dragana Kukić, Jelena Prodanović, Zita Šereš, University of Novi Sad, Faculty of Technology Novi Sad
<u>5</u>	THE INFLUENCE OF WIND POWER ON THE ENVIRONMENT	E. Škrgić, S. Mirjanić, Faculty of Natural Sciences, University of Banja Luka, B&H
<u>6</u>	HEAVY METALS IN AGRICULTURAL SOIL	Gordana Ludaji, Technical College of Applied Sciences in Zrenjanin, Lato Pezo, University of Belgrade, Institute of General and Physical Chemistry, Jelena Filipović, University of Novi Sad, Institute for Food Technology, Jelena Kiurski-Milošević, Aleksandra Sućurović, Technical College of Applied Sciences in Zrenjanin
<u>7</u>	DEVELOPMENT OF SUSTAINABLE WASTE MANAGEMENT SYSTEM IN NOVI SAD WASTE MANAGEMENT CENTRE	Višnja Mihajlović, Mladenka Novaković, Faculty of Technical Sciences, University of Novi Sad, Srbija
<u>8</u>	RAISING AWARENESS ABOUT LINKAGE BETWEEN ENVIRONMENTAL CONTAMINATION RISK AND PROVIDING FOOD SECURITY TO POPULATION IN THE REPUBLIC OF SERBIA	Vesela Radović, Institute for Multidisciplinary Research, Belgrade University, Serbia, Bogdana Vujić, Technical faculty "Mihajlo Pupin", Serbia Ekaterina Arabska, University of agribusiness and rural development – Plovdiv, Bulgaria
<u>9</u>	BAUXITE BASED GEOPOLYMER AS A NOVEL ADSORBENT FOR HEAVY METALS REMOVAL FROM AQUATIC SOLUTIONS	Irena Nikolić, Milena Tadić, Faculty of Metallurgy and Technology, University of Montenegro, Ivana Milašević, Centre of Excellence in Bioinformatics, Faculty of Electrical Engineering, University of Montenegro, Dijana Đurović, Institute of Public Health of Montenegro, Zoltan Kazi, Bogdana Vujić, University of Novi Sad Technical Faculty "Mihajlo Pupin"
<u>10</u>	SORPTION BEHAVIOR DEPENDENCE OF PESTICIDE CARBENDAZIM ON DIFFERENT SOIL PROPERTIES	Nevena Živančev, Srđan Kovačević, Boris Obrovski, Mirjana Vojinović Miloradov, University of Novi Sad, Faculty of Technical Sciences, Milan Dimkić, University of Novi Sad, Faculty of Technical Sciences, Jaroslav Černi Institute for the Development of Water Resources, Belgrade
<u>11</u>	INDOOR RADON MEASUREMENTS USING SOLID STATE NUCLEAR TRACK DETECTORS IN ELEMENTARY AND SECONDARY SCHOOLS IN ŠABAC, SERBIA	Svetoslav Lazarev, Luka Nenadović, Jelena Đuričić-Milanković, Bojan Damjanović, Higher medical and business-technological school of applied studies, Šabac
<u>12</u>	STATISTICAL ANALYSIS FOR BIOGAS PRODUCTION FROM TWO DIFFERENT BATCHES UNDER THE SAME CONDITIONS	Gavrilă Trif-Tordai, Adrian Eugen Cioabla, 1University Politehnica Timisoara, Faculty of Mechanical Engineering, Timisoara, Romania, Delia-Gabriela Călinoiu, University Politehnica

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		Timisoara, Department of Fundamental of Physics for Engineers, Timisoara, Romania
13	EQUILIBRIUM STUDY FOR THE PROCESS OF REMOVAL OF NI(II) IONS FROM AQUEOUS SOLUTIONS BY NATURAL BENTONITE	Katerina Atkovska, Faculty of Technology and Metallurgy, University "Ss. Cyril and Methodius" Skopje, Macedonia, Hamdije Memedi, Faculty of Natural Sciences and Mathematics, State University of Tetovo, Macedonia, Kiril Lisichkov, Gordana Ruseska, Stefan Kuvendziev, Mirko Marinkovski, Anita Grozdanov, Faculty of Technology and Metallurgy, University "Ss. Cyril and Methodius" Skopje, Macedonia
14	APPLICATION OF NATURAL INORGANIC SORBENT (PEMZA) FOR REMOVAL OF CR(VI) IONS FROM WATER RESOURCES	Hamdije Memedi, Faculty of Natural Sciences and Mathematics, State University of Tetovo, Macedonia, Katerina Atkovska, Kiril Lisichkov, Mirko Marinkovski, Faculty of Technology and Metallurgy, University "Ss. Cyril and Methodius" Skopje, Macedonia, Zoran Bozinovski, Public Enterprise, "Water Supply and Sewage", Center for Sanitary Control, Skopje, Macedonia, Stefan Kuvendziev, Faculty of Technology and Metallurgy, University "Ss. Cyril and Methodius" Skopje, Macedonia, Arianit Reka, Faculty of Natural Sciences and Mathematics, State University of Tetovo, Macedonia Shaban Jakupi, University GoceDelchev, Stip
15	CONTAMINATION INDICES AND HEAVY METAL CONCENTRATIONS IN THE LEAVS OF PERENNIAL PLANT SPECIES IN THE URBAN ZONE OF SABAC, SERBIA	Mirjana Antonijević Nikolić, Kosana Popović, Dušan Stanojević, Higher medical and business-technological school of professional studies, Sabac
16	AVAILABLE CONCENTRATIONS OF CU, MN, NI, PB AND ZN IN SOILS NEAR URBAN ROADS	Aleksandra Mihailović, Faculty of Technical Sciences, Novi Sad, University of Novi Sad, Bogdana Vujić, Faculty of Technical Sciences "Mihajlo Pupin", Zrenjanin, University of Novi Sad, Jordana Ninkov, Institute of Field and Vegetable Crops, Novi Sad, Milica Vučinić Vasić, Faculty of Technical Sciences, Novi Sad, University of Novi Sad, Stanko Milić, Institute of Field and Vegetable Crops, Novi Sad, Savka Adamović, Robert Lakatoš, Faculty of Technical Sciences, Novi Sad, University of Novi Sad
17	THE QUALITY OF AGRICULTURAL SOILS NEAR INDUSTRIAL ZONES OF THE CITY OF NOVI SAD	Jordana Ninkov, Institute of Field and Vegetable Crops, Serbia, Aleksandra Mihailović, University of Novi Sad, Faculty of Technical Sciences, Dušana Banjac, Milorad Živanov, Ivana Stanivuković, Snežana Jakšić, Jelena Marinković, Institute of Field and Vegetable Crops, Serbia
18	NOVEL TRENDS IN WASTEWATER TREATMENT BY USING MEMBRANE BIOREACTORS	Erhan Mustafa, Kiril Lisichkov, Mirko Marinkovski, Stefan Kuvendziev, Faculty of Technology and Metallurgy, University "Ss. Cyril and Methodius", Skopje, R. Macedonia, Zoran Bozinovski, Public Enterprise, "Water Supply and Sewage", Center for Sanitary Control, Skopje, R. Macedonia
19	ADSORPTION PROPERTIES OF MODIFIED FORMS OF ZEOLITE NH ₄ NAY	Blagica Cekova, Erhan Mustafa, MIT University, Faculty of ecological resources management, Skopje, Macedonia, Viktorija Bezhovska, Filip Jovanovski, University St. Cyril and Methodius, Skopje, Macedonia, Faculty of technology and metallurgy, Skopje, Macedonia
20	SEPARATION OF PESTICIDE CARBENDAZIM FROM WATER BY ACTIVATED CARBON	Ali Hgeig, Mladenka Novaković, Mirjana Vojinović Miloradov, Ivana Mihajlović, University of Novi Sad, Faculty of Technical Sciences
21	USING PLANT MATERIALS FOR NOISE POLLUTION IN CITYSCAPE	Aysun TUNA, Inonu University, Faculty of Fine Art and Design, Department of Landscape Architecture, Malatya/Turkey, Parisa ALIASGHARI KHABBAZI, Ankara University, Agriculture Faculty, Department of Landscape Architecture, Ankara/Turkey
22	HEALING GARDENS IN THE SCOPE OF PUBLIC HEALTH	Aysun TUNA, Inonu University, Faculty of Fine Art and Design, Department of Landscape Architecture, Malatya/Turkey, Parisa GÖKER, Ankara University, Agriculture Faculty,

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		Department of Landscape Architecture, Ankara/Turkey
23	ECOLOGICAL BUILDING CULTURE AND GREEN BUILDINGS; VERTICAL AND ROOF GARDENS	Aysun TUNA, , Inonu University, Faculty of Fine Art and Design, Department of Landscape Architecture, Malatya/Turkey, ParisaGÖKER, Ankara University, Agriculture Faculty, Department of Landscape Architecture, Ankara/Turkey
24	KINETIC AND EQUILIBRIUM STUDIES OF CD ²⁺ ADSORPTION ONTO LOW-COST ADSORBENT PREPARED FROM PLUM KERNELS	Sabolc Pap, NikolaBoskovic, Jelena Radonic, Dragan Adamovic, Maja Sremacki, Olivera Paunovic, Maja Turk Sekulic, Faculty of Technical Sciences, University of Novi Sad, Serbia
25	NOISE EMISSION WITHIN THE PLANT FOR PRIMARY PROCESSING AND STORAGE OF SCRAP METAL	Jelena Kiurski-Milošević, Jovanić Dušan, Danijela Jašin, Gordana Ludajić, Aleksandra Šučurović, Technical college of applied sciences in Zrenjanin, Republic of Serbia
26	COMPARISON O EXPERIMENTAL AND THEORETICAL OXYGEN SATURATION, IN THE AERATION TREATMENT OF REFINERY WASTEWATER	Mirjana M. Ševaljević , Milan Pavlović , 1Technical Faculty "Mihajlo Pupin" Zrenjanin, University of Novi Sad, Stojan N. Simić, Oil Refinery, Modriča, Bosnia and Hercegovina, Miroslav M. Stanojević, Faculty of Mechanical Engineering University of Belgrade, Miladin V. Ševaljević, "High Technical School in Zrenjanin", Srbija
27	BACTERIOLOGICAL MONITORING AND WATER QUALITY OF DANUBE RIVER AT BUDAPEST TERRITORY	Hosam BAYOUMI HAMUDA, Óbuda University, Rejtő Sándor Faculty of Light industry and Environmental Protection Engineering, Institute of Environmental Protection Engineering, Budapest, Hungary
28	ECOLOGICAL AND FUNCTIONAL ROLES OF PGPR IN BROWN FOREST SOIL ECOSYSTEM OF GÖDÖLLŐ, HUNGARY	Hosam BAYOUMI HAMUDA, Óbuda University, Rejtő Sándor Faculty of Light industry and Environmental Protection Engineering, Institute of Environmental Protection Engineering, Budapest, Hungary, Abdoussalam A. KHALIF, Tripoli University, Faculty of Agriculture, Tripoli, Libya
29	EFFECT OF HEAVY METALS AND TEMPERATURES ON TRACE GAS EMISSIONS FROM AGRICULTURAL SOIL	Abdousalam A. ALGAIDI, Sebha University, Faculty of Agriculture, Department of Soil Science, Sebha, Libya, Hosam BAYOUMI HAMODA, , Óbuda University, Rejtő Sándor Faculty of Light industry and Environmental Protection Engineering, Institute of Environmental Protection Engineering, Budapest, Hungary, Hamed ABDORHIM, Azzaytuna University, Faculty of Science, Department of Environmental Science, Tripoli, Libya
30	LAND USE ANALYSES OF BUILT UP AREAS IN THE 19-20TH CENTURIES IN THE GÖDÖLLŐ HILLSIDE, HUNGARY	Krisztina Demény, Óbuda University, Rejtő Sándor Faculty of Light industry and Environmental Protection Engineering, Institute of Environmental Protection Engineering, Budapest, Hungary
31	SEGMENTS OF SUSTAINABLE DEVELOPMENT OF THE CITY OF ZRENJANIN	Mila Kavalić Sanja Stanislavljev, Marko Vlahović, Branko Markoski, Erika Tobolka, University ofNoviSad,TechnicalFaculty"Mihajlo Pupin", Zrenjanin
32	SIMULATION OF AIR POLLUTION DISPERSION FROM POINT SOURCES AND CROSS-BORDER IMPACT USING SIMULATION SOFTWARE ADMS 5	Aleksandar Đurić, Faculty of Technical Sciences, University of Novi Sad, Serbia, Bogdana Vujić, Technical Faculty "Mihajlo Pupin", University of Novi Sad, Serbia Francisc Popescu, Faculty of Mechanical Engineering, University Politehnica Timisoara, Romania Una Marčeta, Miroslav Vulić, Technical Faculty "Mihajlo Pupin", University of Novi Sad, Serbia
33	EXPOSURE TO WHOLE-BODY VIBRATION, TOOLS FOR CALCULATING DAILY EXPOSURES AND MEASUREMENT	Vladimir Šinik, University of Novi Sad, Technical faculty "Mihajlo Pupin" Zrenjanin, Serbia, Željko Despotović, Institute —Mihajlo Pupin], Belgrade, Serbia Slobodan Janković, Dalibor Dobrilović, Željko Stojanov, University of Novi Sad, Technical faculty "Mihajlo Pupin" Zrenjanin, Serbia
34	HEALTH SURVEILLANCE , HEALTH RISKS,	Vladimir Šinik, Slobodan Janković, University of

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	SIGNS AND SYMPTOMS FOR HAND-ARM VIBRATION	Novi Sad, Technical faculty "Mihajlo Pupin" Zrenjanin, Serbia, Željko Despotović, Institute —Mihajlo Pupin , Belgrade, Serbia Dalibor Dobrilović, Željko Stojanov, University of Novi Sad, Technical faculty "Mihajlo Pupin" Zrenjanin, Serbia
35	EXPOSURE TO HAND-ARM VIBRATION, TOOLS FOR CALCULATING DAILY EXPOSURES AND MEASUREMENT	Vladimir Šinik, University of Novi Sad, Technical faculty "Mihajlo Pupin" Zrenjanin, Serbia, Željko Despotović, Institute —Mihajlo Pupin , Belgrade, Serbia Slobodan Janković, Željko Stojanov, Dalibor Dobrilović, University of Novi Sad, Technical faculty "Mihajlo Pupin" Zrenjanin, Serbia
36	PROTECTION FROM CLIMATE CHANGES IN THE REPUBLIC OF SERBIA AND INTERNATIONAL LAW	Nadezda Ljubojev, Bogdana Vujic, Dragica Ivin, University of Novi Sad, Technical Faculty "Mihajlo Pupin" Zrenjanin
37	POSSIBILITIES OF VALUABLE RAW MATERIAL EXTRACTION IN THE PROCESS OF RECYCLING OF REFRIGERATORS	Tijana Marinković, Bojan Batinić, University of Novi Sad, Faculty of Technical Sciences, Novi Sad, Republic of Serbia, Una Marčeta, University of Novi Sad, Technical Faculty "Mihajlo Pupin", Zrenjanin, Republic of Serbia, Mladenka Novaković, Čedomir Ribić, University of Novi Sad, Faculty of Technical Sciences, Novi Sad, Republic of Serbia
38	THE CONCEPT OF A POWER PLANT BASED ON THE SEEBECK – PELTIER EFFECT	Cătălin – Virgil Rădulescu, Ioana Ionel, Politehnica University of Timisoara, Faculty for Mechanical Engineering, Timisoara, Romania
39	SUSTAINABLE TECHNOLOGIES IN RECYCLING OF MOTOR VEHICLES, ELV	Milan Pavlović, Miroslav Vulić, Technical Faculty "Mihajlo Pupin", University of Novi Sad, Serbia, Slavko Arsovski, Faculty of Engineering, University of Kragujevac, Serbia, Aleksandar Tomović, Faculty of mechanical engineering, University of Belgrade, Serbia
40	GROUNDWATER QUALITY WITH RESPECT TO THE LEVELS OF NITRATE AND FLUORIDE IN URBAN AREA OF MALAYER CITY AND THE ASSOCIATED HEALTH RISK	Mohamad Sakizadeh, Department of Environmental Sciences, Shahid Rajae Teacher Training University, Iran, Fatemeh Mehrabi Sharafabadi, Department of Pharmacology, Jundishapour University of Medical Sciences
41	AN INTRODUCTION ON LITERATURE OF SMART CITY	Ali Zeynali Azim, Young Researchers and Elite Club, Tabriz Branch, Islamic Azad University, Tabriz, Mostafa Basiri, Department of Architecture, Ilkhchi Branch, Islamic Azad University, Ilkhchi, Iran, Mohammad Zeynali Azim, Department of IT, BostanAbad Branch, Islamic Azad University, BostanAbad, Iran