

SECTION III
ENGINEERING AND SMART SYSTEMS IN CONSTRUCTION
November 14, 2018
14:00-19.00

Smart City, technique and technology

Submission #	Title of the report	Authors and <u>Speaker</u>
401	Anti sway crane control Systems based on Fuzzy logic	<u>Knut Hartenstein</u>
385	Building Information Modelling in Agile Environments - an Example of Event Management at the Airport of Tempelhof	<u>Zsuzsa Besenyői</u> , Markus Krämer and Faraz Hussain
241	Sustainability of multi skin facades	Kirill Lushin and <u>Yang Hui</u>
33	Assessment of means of mechanization of construction risks using catastrophe theory	<u>Vladimir Zorin</u> and Natali Baurova
40	Determination of the granulometric composition parameters of the grinding product in a ball mill	<u>Rashid Sharapov</u>
22	Computer modeling influence lines of farm elements	<u>Evgenij Kudryavtsev</u>
111	Determination of the magnetic separator separation function	<u>Evgeniy Kharlamov</u>
61	Possibilities of applying structural optimization in building structures computer-aided design systems	<u>Andrey Vasilkin</u>
21	Choice of parameters of oscillatory actions in the molding of reinforced concrete products	<u>Vitaly Vasiliev</u>
402	The Adoption of Location-Based Management System to Improve Economic Sustainability as a Mechanism to Integrate Lean Theories in Sustainable Construction	Ammar Al-Saleh and <u>Nicole Riediger</u>
153	On Deformability of Crane Metallic Structures	<u>Anatoly Vershinsky</u> , Aleksandr Shubin and Aleksandr Masyagin
206	Intelligent Management of High-Technology Equipment for the Manufacture of Concrete and Ceramic Materials and Products	<u>Konstantin Galitskov</u>
65	Resource verification of construction objects having increased importance level	Pavel Kapyrin and <u>Nadegda Sevrugina</u>
50	Reliability and Safety of Vertical Transportation Use	<u>Michail Stepanov</u> , Batraz Kaytukov and Ayub Mechiev
114	Classification and determination of working area of concrete placing booms	<u>Yevgeny Koshkarev</u>
205	Improvement of assembly technique efficiency for installation of buildings and related structures in light building constructions	<u>Anatoliy Drozdov</u>
53	Determination of the aerodynamic characteristics of a concentrator with adjustable parameters	Rashid Sharapov and <u>Aleksandr Agarkov</u>
99	Justification of the air separation curve	<u>Rinat Sharapov</u>
403	Artificial Intelligence in (Civil) Engineering	<u>Matzka, Stephan</u>
83	On traction performance improvement for wheeled earth-moving machines	<u>Vladimir Zhulay</u> , Vitaliy Tyunin and Denis Bobrov
60	Optimization of flat-oval pipes and perspectives of their application in beam structures	<u>Alexander Marutyan</u> , Tamazi Kobaliya and Evgeny Galdin
239	Smart city: automatic reconstruction of 3D building models to support urban development and planning	Nina Danilina, Mihail Slepnev and <u>Spartak Chebotarev</u>

Submission #	Title of the report	Authors and Speaker
368	Synthesis of the AC and DC Drives Fault Diagnosis Method for the Cyber-physical Systems of Building Robots	<u>Alexey Bulgakov</u> , Tatiana Kruglova and Thomas Bock
384	Modification of vibratory technology for sustainable construction works	Oleksandra Lohunova and <u>Marek Wyjadłowski</u>
225	Three-dimensional information modeling in the preservation of objects of cultural heritage	<u>Tatiana Tsitman</u> and Kseniia Proshunina
58	Optimization of flat-oval pipes and perspectives of their application in core structures	<u>Alexander Marutyan</u> , Tamazi Kobaliya and Evgeny Galdin