

# ISAT 2012

33rd INTERNATIONAL CONFERENCE  
 INFORMATION SYSTEMS ARCHITECTURE AND TECHNOLOGY  
 SZKLARSKA PORĘBA, POLAND  
 16 – 19 September 2012

## CONFERENCE SCHEDULE AND PROGRAM

### SUNDAY – 16th SEPTEMBER 2012

13:00 – 15:00	Registration		
15:30 – 16:00	Opening of the Conference and coffee tasting PATIO		
16:00 – 17:40	PART I Chairs: K. Juszczyszyn, D. Konieczny, A. Grzech		
	Room C Session C1	Room D Session D1	Room E Session E1
16:00 – 16:20	Paweł Stelmach, Łukasz Falas, Krzysztof Juszczyszyn AUTOMATED SERVICE COMPOSITION WITH SOCIAL GRAPH BASED QUALITY CRITERION	Sylwester Kaczmarek, Maciej Sac TRAFFIC MODEL FOR EVALUATION OF CALL PROCESSING PERFORMANCE PARAMETERS IN IMS-BASED NGN	Karol Marchwicki ON ERASURE CODING AND REPLICATION IN PEER-TO-PEER SYSTEM
16:20 – 16:40	Krzysztof Juszczyszyn, Paweł Stelmach, Łukasz Falas DYNAMIC NETWORKS OF SERVICES – THE EMERGING PATTERNS OF INTERACTION RESULTING FROM THE COMPOSITION OF WEB SERVICES	Damian Petrecki, Bartłomiej Dabiński, Paweł Świątek PROTOTYPE OF SELF-MANAGING CONTENT AWARE NETWORK SYSTEM FOCUSED ON QOS ASSURANCE	Mariusz Głąbowski, Michał Dominik Stasiak SWITCHING NETWORKS WITH OVERFLOW LINKS AND POINT-TO-POINT SELECTION
16:40 – 17:00	Anna Bryniarska THE ALGORITHM OF KNOWLEDGE DEFUZZIFICATION IN SEMANTIC NETWORK	Remigiusz Samborski DATA CACHING IN CONTENT AWARE NETWORKS - LRU AND LFU EVALUATION	Krzysztof Stachowiak, Piotr Zwierzykowski THE APPLICATION OF THE INDUCTIVE GRAPH MODEL FOR THE MODERN NETWORK ROUTING ALGORITHMS
17:00 – 17:20	Szymon Kijas, Andrzej Zalewski FORMALIZING ARCHITECTURAL DECISIONS FOR SERVICE COMPOSITION	Tomasz Bilski NETWORK STORAGE SYSTEMS WITH IPSEC IMPLEMENTATIONS	Grzegorz Danilewicz, Marcin Dziuba THE NEW SSMPs ALGORITHM FOR VOQ SWITCHES
17:20 – 17:40	Jakub Porzycki, Jarosław Was NOVEL ALGORITHMS OF SENSORS DETECTION IN SOCIAL NETWORK	Grzegorz Bocewicz, Robert Wójcik, Zbigniew Banaszak KNOWLEDGE BASE ADMISSIBILITY: ONTOLOGY PERSPECTIVE	Remigiusz Rajewski QUALITY OF OPTICAL CONNECTIONS IN THE LOG2N-1 SWITCHING NETWORK
19:00 – 20:00	Supper		

### MONDAY – 17th SEPTEMBER 2012

7:45 – 8:45	Breakfast		
8:00 – 8:50	Registration		
09:00 – 10:40	PART II Chairs: M. Głąbowski, M. Fraś, T. Bilski		
	Room C Session C2	Room D Session D2	Room E Session E2
9:00 – 9:20	Grzegorz Rubin, Krzysztof Bielawski EFFICIENT SIMULATION METHOD FOR PARALLEL DIGITAL SYSTEMS CONTROL UNITS DEVELOPMENT	Przemysław Wechman, Leszek Koszałka SCHOOL BUS ROUTE PROBLEM: PROBLEM FORMULATION AND NEW SOLVING APPROACH	Andrzej Zalewski, Szymon Kijas FEATURE-BASED ARCHITECTURE REVIEWS
9:20 – 9:40	Krzysztof Bielawski, Mariusz Prószyński AUTOMATING THE VIRTUAL PRIVATE CLOUD CREATION WITH USE OF WEB SERVICES AND WORKFLOWS	Gediminas Danilevičius, Dariusz Ezerskis, Leonas Balaševičius ANALYSIS OF THE QUALITY CRITERIA FOR AUTOMATED DESIGN OF PLC PROGRAM MODELS AND ALGORITHMS	Dariusz Banasiak, Jarosław Mierzwa, Antoni Sterna AUTOMATIC CORRECTION OF ERRORS IN POLISH TEXTS
9:40 – 10:00	Sebastian Mazur, Ryszard Dindorf, Piotr Woś WIRELESS CONTROL OF THE ELECTRO-PNEUMATIC SERVO DRIVE	Andrzej Sobekil, Marek Downar WEB COMPONENT FOR AUTOMATIC EXTRACTION OF ONTOLOGICAL INFORMATION FROM INFORMAL DESCRIPTION OF WEB SERVICES	Haoxi Zhang, Cesar Sanin, Edward Szczerbicki APPLYING FUZZY LOGIC TO DECISIONAL DNA DIGITAL TV
10:00 – 10:20	Maciej Hojda UNCERTAIN APPROACH TO MULTI-ROBOT TASK ALLOCATION	Piotr Chynał A METHOD FOR COMPARING EFFICIENCY OF THE DIFFERENT USABILITY EVALUATION TECHNIQUES	Zbigniew Buchalski PROGRAMS SCHEDULING IN MULTIPROCESSING COMPUTER SYSTEM WITH POSITION DEPENDENT PROCESSING TIMES
10:20 – 10:40	Leszek Borzemski, Michał Danielak, Anna Kamińska-Chuchmała COMPARISON OF TURNING BANDS METHOD AND SEQUENTIAL GAUSSIAN SIMULATION IN DAILY ANALYSES OF WEB SERVERS' PERFORMANCE	Marcin Stępnik, Tomasz Salwa, Ziemowit Nowak LOAD BALANCING IN THE CURRENT INTERNET AT THE DNS LEVEL	Dariusz Konieczny, Karol Radziszewski EFFICIENCY OF PARALLELIZATION OF NEURAL NETWORK ALGORITHM ON GRAPHIC CARDS
10:40 – 11:10	Coffee Break		

# ISAT 2012

33rd INTERNATIONAL CONFERENCE  
INFORMATION SYSTEMS ARCHITECTURE AND TECHNOLOGY  
SZKLARSKA PORĘBA, POLAND  
16 – 19 September 2012

## CONFERENCE SCHEDULE AND PROGRAM

### MONDAY – 17th SEPTEMBER 2012

11:10 – 12:30		PART III	Chairs: M.Fraś, A. Kamińska-Chuchmała	
Room C Session C3		Room D Session D3	Room E Session E3	
11:10 – 11:30		Bartosz Kucharski, Edward Szczerbicki EXPERIENCE BASED ENCHANCED DECISION SUPPORT FOR BUSINESS PROCESSES	Adam Brzeski, Jan Cychnerski, Tomasz Dziubich, Paweł Kaczmarek DEPENDABLE INTEGRATION OF MEDICAL IMAGE RECOGNITION COMPONENTS	
11:30 – 11:50		Grzegorz Popek AGGREGATION OF MODALLY-EXTENDED FUZZY-LINGUISTIC STATEMENTS	Łukasz Leśniczek, Aleksander Świątkowski, Krzysztof Brzostowski RECOGNITION OF PHYSICAL ACTIVITY BASED ON DATA ACQUIRED BY WEARABLE SENSORS	
11:50 – 12:10		Aleksander Orłowski, Edward Szczerbicki AN EXAMPLE OF THE FUZZY INTERNET MORTGAGE MARKET SUB-MODELS IMPLEMENTATION	Adam Sudol, Sławomir Stempniewski, Viktor Vlasenko THE EVALUATION OF FLYING OBJECTS IMAGES IDENTIFICATION ALGORITHMS BASED ON GENERALIZED DIGITAL HILBERT OPTICS HYBRID METHODS	
12:10 – 12:30		Andrzej Skorupski, Marek Pawłowski, Krzysztof Gracki, Paweł Kerntopf FPGA-BASED SIMULATION OF A CIPHER UNIT BUILT USING REVERSIBLE LOGIC	Krzysztof Bielawski POLYPHASE CONCET AND ALL-PASS TRANSFORMATION AS A VALUABLE SOLUTION FOR PSYCHOACOUSTICALLY MOTIVATED FILTER BANK	
12:30 – 12:50		Paweł Andrzejewski DEFENSE STRATEGIES AGAINST HOSTILE TAKEOVERS: AN ANALYSIS OF THE MOST RECOGNIZED CASE STUDIES IN POLAND	Marcin Relich Failed PROJECT PROTOTYPING WITH THE APPLICATION OF CONSTRAINT PROGRAMMING	
13:00 – 14:00	Lunch			
14:30	<b>Outdoor discussion session</b> Comfortable to walk outfit and shoes for walking are requested * (Proszę zabrać odpowiednie (wygodne) do wędrowki obuwie i strój)			
20:00 – ...	Conference Dinner			

### TUESDAY – 18st SEPTEMBER 2012

8:50 – 9:50		Breakfast		
10:00 – 11:20		PART IV	Chairs: Z. Nowak, Z. Wilimowska	
Room C Session C4		Room D Session D4	Room E Session E4	
10:00 – 10:20	Dorota Kuchta, Justyna Urbańska DYNAMIC GOAL PROGRAMMING APPROACH AND ITS APPLICATION TO ENVIRONMENTAL DECISIONS IN ORGANIZATIONS		Maciej Romaniuk, Piotr Nowak ON PRICING FORMULA AND NUMERICAL ANALYSIS OF CATASTROPHE BOND WITH SOME PAYMENT FUNCTION	
10:20 – 10:40	Kamil Dowgielewicz, Cezary Orłowski THE CONCEPT OF AN ENVIRONMENT FOR SERVICE MODEL APPLICATION TESTING		Peng Wang, Cesar Sanin, Edward Szczerbicki ENHANCING SET OF EXPERIENCE KNOWLEDGE STRUCTURE(SOES) WITH A NEAREST NEIGHBOR ALGORITHM RELIE-F	
10:40 – 11:00	Zofia Wilimowska, Stanisław Lewiński vel Iwański POLISH ENTERPRISES' FINANCIAL STRUCTURE MODELS AS A PART OF BUSINESS INTELLIGENCE SYSTEMS		Krzysztof Brzostowski, Piotr Klukowski, Paweł Furmanowski ESTIMATION OF DYNAMIC OBJECT ORIENTATION BASED ON ACCELERATION AND GYROSCOPIC MEASUREMENTS USING COMPLEMENTARY FILTERS	
11:00 – 11:20	Iwona Paprocka, Wojciech Kempa ESTIMATION OF RELIABILITY CHARACTERISTICS IN A PRODUCTION SCHEDULING MODEL WITH THE RENEWAL THEORY APPLICATION - FIRST PART + SECOND PART, NUMERICAL EXAMPLE		Jacek Zabawa INTEGRATING DISCRETE EVENT SIMULATION AND FINANCIAL REPORTING.	
11:20 – 11:50	Closing of the Conference and coffee tasting PATIO			
12:00 – 13:00	Lunch			

08:00 - 12:00  
15:00 - 21:00

**The swimming pool is for free and available every day  
from 8 to 12 a.m. and from 3 to 9 p.m.**